

Documented Code For tracklang v1.6.1

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1 Introduction

This is the documented code for the tracklang package. See tracklang-manual.pdf for the main user guide.

2 Main Package Code

3 L^AT_EX Code (tracklang.sty)

To ensure maximum portability this file only uses L^AT_EX kernel commands, rather than using more convenient commands provided by packages such as etoolbox.

```
\NeedsTeXFormat{LaTeX2e}
\ProvidesPackage{tracklang}[2022/12/13 v1.6.1 (NLCT) Track Languages]
```

`\@tracklang@declareoption` Set up package options.

```
\providecommand*{\@tracklang@declareoption}[1]{%
  \DeclareOption{#1}{\TrackPredefinedDialect{#1}}%
}
```

Load generic code:

```
\input{tracklang}
```

There are no other options as this package will typically be loaded using `\RequirePackage` by a package. Explicitly adding an option at that point might create a package option clash. The declared package options are all the possible language names that might be passed as a document class option. (Also, adding any non-language options here will interfere with `\@tracklang@declaredoptions`.)

```
\let\@tracklang@declaredoptions\@declaredoptions
\ProcessOptions
```

Unset `\@tracklang@declareoption`:

```
\let\@tracklang@declareoption\@gobble
```

In the event that the language hasn't been supplied through the package options (or through the class options, which the package options should process provided the document class has used the standard option declarations) we need to check if any of the known language packages have been loaded. This is a bit risky as it relies on the packages not changing their internal language macros. It would be easier if all the language packages could provide a reliable user interface to determine which languages (and variants) have been loaded.

`\@tracklang@prelangpkgcheck@hook` In the event that any of the language packages choose to load this package and use `tracklang.tex`'s commands to identify the tracked languages and regions, then they can first define `\@tracklang@prelangpkgcheck@hook` to do `\endinput` which will skip the checks.

```
\csname @tracklang@prelangpkgcheck@hook\endcsname
```

```
\ifx\@tracklang@languages\@empty
```

First try `babel`. If `babel` has been loaded, the languages are stored in `\bbl@loaded`, so check if this command has been defined, and if it has add those languages.

```

\@ifundefined{bbl@loaded}%
{%
If translator has been loaded, the languages are stored in \trans@languages
\@ifundefined{trans@languages}
{%
Has ngerman been loaded?
\@ifpackageloaded{ngerman}%
{%
\@tracklang@add@ngerman
}%
}%
Has german been loaded?
\@ifpackageloaded{german}%
{%
\@tracklang@add@german
}%
}%
Has polyglossia been loaded?
\@ifpackageloaded{polyglossia}
{%
polyglossia now provides \xpg@bcp@loaded, which contains a comma-separated
list of language tags, so use that if it exists.
\@ifundefined{xpg@bcp@loaded}%
{%
Older versions: polyglossia sets \langle lang \rangle@loaded for each loaded language, so
check this for all known languages. I don't know how to consistently check
for variants. (Conditionals such as \if@british@locale are set immediately
with \setotherlanguage but are deferred to the start of the document with
\setmainlanguage, which is too late for tracklang.) Script names seem to be
stored in \xpg:scripttag@⟨ language ⟩ but again this doesn't seem to be set for
the main language until the start of the document. New versions of polyglossia
store the list of loaded languages in \xpg@loaded, so check if this is defined.
\@ifundefined{xpg@loaded}%
{%
\xpg@loaded isn't defined, so iterate over known options and check if the lan-
guage has been loaded.
\PackageInfo{tracklang}{polyglossia loaded but
\string\xpg@loaded\space not defined. Will attempt
to track known languages.}%
\@for\this@language:=\@tracklang@declaredoptions\do{%
\@ifundefined{\this@language @loaded}%
{%
{\@nameuse{@tracklang@add@\this@language}}%
}%
}%
}%

```

```

{%
  \@for\this@language:=\xpg@loaded\do{%
    \ifundefined{@tracklang@add@\this@language}%
    {%
      \PackageWarning{tracklang}%
        {Adding unknown polyglossia language ‘\this@language’}%

      \AddTrackedLanguage{\this@language}%
    }%
    {\@nameuse{@tracklang@add@\this@language}}%
  }%
}%
{%
  \@for\this@language:=\xpg@bcp@loaded\do{%

```

These are language tags, which is more convenient.

```

  \expandafter\TrackLanguageTag{\this@language}%
}%
}%

```

The `\xpg@bcp@loaded` list doesn't seem to include the main language until the start of the document environment but `\mainbabelname` is defined after `\setmainlanguage`. I'm not sure if `\mainbabelname` was provided in the same version of polyglossia as `\xpg@bcp@loaded` or a different one, so have a separate conditional.

```

\ifundefined{mainbabelname}{}%
{%
  \let\@org@tracklang@add@latex\@tracklang@add@latex
  \def\@tracklang@add@latex{%
    \PackageWarning{tracklang}%
      {Can't detect polyglossia main language. It may
       not have been set yet}%
  }%
  \ifundefined{@tracklang@add@\mainbabelname}%
  {%
    \PackageWarning{tracklang}%
      {Adding unknown polyglossia main babel name ‘\mainbabelname’}%
    \expandafter\AddTrackedLanguage{\mainbabelname}%
  }%
  {\@nameuse{@tracklang@add@\mainbabelname}}%
}%
\let\@tracklang@add@latex\@org@tracklang@add@latex
}%
}%
{%

```

None of the known packages have been loaded, so do nothing in case another package wants to load this one before setting up the language options. However,


```

\let\@tracklang@add@German\@tracklang@add@german
\@namedef{@tracklang@add@German1997}{\@tracklang@add@ngerman}
\let\@tracklang@add@Greek\@tracklang@add@greek
\let\@tracklang@add@Polutoniko\@tracklang@add@polutoniko
\let\@tracklang@add@Hebrew\@tracklang@add@hebrew
\let\@tracklang@add@Hungarian\@tracklang@add@hungarian
\let\@tracklang@add@Icelandic\@tracklang@add@icelandic
\let\@tracklang@add@Irish\@tracklang@add@irish
\let\@tracklang@add@Italian\@tracklang@add@italian
\let\@tracklang@add@Latin\@tracklang@add@latin
\let\@tracklang@add@LowerSorbian\@tracklang@add@lowersorbian
\let\@tracklang@add@Magyar\@tracklang@add@magyar
\let\@tracklang@add@Nynorsk\@tracklang@add@nynorsk
\let\@tracklang@add@Norsk\@tracklang@add@norsk
\let\@tracklang@add@Polish\@tracklang@add@polish
\let\@tracklang@add@Portuguese\@tracklang@add@portuguese
\let\@tracklang@add@Romanian\@tracklang@add@romanian
\let\@tracklang@add@Russian\@tracklang@add@russian
\let\@tracklang@add@Scottish\@tracklang@add@scottish
\let\@tracklang@add@Serbian\@tracklang@add@serbian
\let\@tracklang@add@Slovak\@tracklang@add@slovak
\let\@tracklang@add@Slovene\@tracklang@add@slovene
\let\@tracklang@add@Spanish\@tracklang@add@spanish
\let\@tracklang@add@Swedish\@tracklang@add@swedish
\let\@tracklang@add@Turkish\@tracklang@add@turkish
\let\@tracklang@add@Ukrainian\@tracklang@add@ukrainian
\let\@tracklang@add@UpperSorbian\@tracklang@add@uppersorbian
\let\@tracklang@add@Welsh\@tracklang@add@welsh

```

Now iterate through the declared languages:

```

\@for\this@language:=\trans@languages\do{%
  \@ifundefined{@tracklang@add@\this@language}{}%
  {\@nameuse{@tracklang@add@\this@language}}%
}%
}%
}%
{%

```

Add from babel

```

\@for\this@language:=\bbl@loaded\do{%
  \@ifundefined{@tracklang@add@\this@language}%
  {%
    \PackageWarning{tracklang}%
      {Adding unknown babel language ‘\this@language’}%

    \AddTrackedLanguage{\this@language}%
  }%
  {\@nameuse{@tracklang@add@\this@language}}%
}%

```

If babel has been loaded with serbian, then the script needs to be set to Latn.

(The Cyrillic script is provided with serbianc.)

```
\ifx\captionsserbian\undefined
\else
\SetTrackedDialectScript{serbian}{Latn}%
\fi
}
```

End of check for language packages

```
\fi
```

4 Generic Code (tracklang.tex)

Does the category code of @ need changing?

```
\@tracklang@restore@at
```

```
\ifnum\catcode'\@=11\relax
\def\@tracklang@restore@at{}%
\else
\expandafter\edef\csname @tracklang@restore@at\endcsname{%
\noexpand\catcode'\noexpand\@=\number\catcode'\@\relax
}%
\catcode'\@=11\relax
\fi
```

First check if this file has already been loaded:

```
\ifx\@tracklang@languages\undefined
\else
\@tracklang@restore@at
\expandafter\endinput
\fi
```

Version info.

```
\expandafter\def\csname ver@tracklang.tex\endcsname{%
2022/12/13 v1.6.1 (NLCT) Track Languages Generic Code}
```

Define a long command for determining the existence of a control sequence by its name. (`\relax` is considered undefined.)

```
\@tracklang@ifundef
```

```
\long\def\@tracklang@ifundef#1#2#3{%
\ifcsname#1\endcsname
\expandafter\ifx\csname #1\endcsname\relax
#2%
\else
#3%
\fi
\else
\expandafter\ifx\csname #1\endcsname\relax
#2%
\else
```

```

        #3%
        \fi
    \fi
}
\ifcsname is an eTeX primitive. Need to check if it's defined.
\ifx\ifcsname\undefined
Not using eTeX.

```

```

\long\def\@tracklang@ifundef#1#2#3{%
\expandafter\ifx\csname #1\endcsname\relax
#2%
\else
#3%
\fi
}

```

Can't have an else part here as TeX won't recognise `\ifcsname` and we'll have an unmatched end brace.

```
\fi
```

The shell escape stuff needs the Plain TeX version of `\input`. This is `\@@input` if we're using L^ATeX.

```

\@tracklang@input
\ifx\@@input\undefined
\let\@tracklang@input\input
\else
\let\@tracklang@input\@@input
\fi

```

Provide some commands in case the L^ATeX kernel hasn't been loaded.

```

\@tracklang@nnil
\ifx\@nnil\undefined
\def\@tracklang@nnil{\@nil}
\else
\let\@tracklang@nnil\@nnil
\fi

```

```

\@tracklang@for
\ifx\@for\undefined
\long\def\@tracklang@for#1:=#2\do#3{%
\expandafter\def\expandafter\@fortmp\expandafter{#2}%
\ifx\@fortmp\empty
\else
\expandafter
\@tracklang@forloop #2,\@nil,\@nil\@@ #1{#3}%
\fi
}
\long\def\@tracklang@forloop#1,#2,#3\@@ #4#5{%

```



```

\def #4{#1}%
\ifx#4\@tracklang@nnil
\else
#5%
\def #4{#2}%
\ifx#4\@tracklang@nnil
\else
#5%
\@tracklang@iforloop #3\@@ #4{#5}%
\fi
\fi
}
\long\def\@tracklang@iforloop#1,#2\@@ #3#4{%
\def#3{#1}%
\ifx#3\@tracklang@nnil
\expandafter
\@tracklang@fornoop
\else
#4\relax
\expandafter\@tracklang@iforloop
\fi
#2\@@ #3{#4}%
}
\long\def\@tracklang@fornoop#1\@@ #2#3{}
\else
\let\@tracklang@for\@for
\fi

```

\@tracklang@namedef

```

\ifx\@namedef\undefined
\def\@tracklang@namedef#1{\expandafter\def\csname#1\endcsname}
\else
\let\@tracklang@namedef\@namedef
\fi

```

\@tracklang@enamedef

```

\def\@tracklang@enamedef#1{\expandafter\edef\csname#1\endcsname}

```

\@tracklang@nameuse

```

\def\@tracklang@nameuse#1{%
\@tracklang@ifundef{#1}{\csname#1\endcsname}%
}

```

\@tracklang@ifcseqcsname

```

\@tracklang@ifcseqcsname{<cs>}{<csname>}{<true>}{<false>}

```

Compares two commands, the first is reference as a control sequence the second is referenced as a control sequence name. Condition is false if the second isn't defined (no check for the existence of the first).

```

\def\@tracklang@ifcseqcsname#1#2#3#4{%
\@tracklang@ifundef{#2}{#4}%
{%
\expandafter\ifx\expandafter#1\csname#2\endcsname
#3%
\else
#4%
\fi
}%
}

```

\@tracklang@sanitize

```

\ifx\@onelevel@sanitize\undefined
\def\@tracklang@sanitize#1{%
\edef#1{\expandafter\@tracklang@strip@prefix\meaning#1}%
}
\def\@tracklang@strip@prefix#1>{}
\else
\let\@tracklang@sanitize\@onelevel@sanitize
\fi

```

\@tracklang@firstoftwo

```

\long\def\@tracklang@firstoftwo#1#2{#1}

```

\@tracklang@secondoftwo

```

\long\def\@tracklang@secondoftwo#1#2{#2}

```

\@tracklang@err

```

\ifx\PackageError\undefined
\def\@tracklang@err#1#2{%
\errhelp{#2}%
\errmessage{tracklang: #1}}
\else
\def\@tracklang@err#1#2{\PackageError{tracklang}{#1}{#2}}
\fi

```

\ifTrackLangShowWarnings Allow user to switch warnings on or off.

```

\newif\ifTrackLangShowWarnings
\TrackLangShowWarningstrue

```

\@tracklang@pkgwarn Provided for related packages such as texosquery.

```

\ifx\PackageWarning\undefined
\def\@tracklang@pkgwarn#1#2{%
\ifTrackLangShowWarnings
{%
\newlinechar='^^J
\def\MessageBreak{^^J}%
\message{^^J#1 Warning: #2 on line \the\inputlineno.^^J}%
}%
}

```

```

        \fi
    }
\else
    \def\@tracklang@pkgwarn#1#2{%
        \ifTrackLangShowWarnings
            \PackageWarning{#1}{#2}%
        \fi
    }
\fi

\@tracklang@warn
    \def\@tracklang@warn#1{\@tracklang@pkgwarn{tracklang}{#1}}%

```

`\ifTrackLangShowInfo` Allow user to switch information messages on or off.

```

    \newif\ifTrackLangShowInfo
    \TrackLangShowInfofalse

```

`\@tracklang@info`

```

\ifx\PackageInfo\undefined
    \def\@tracklang@info#1{%
        \ifTrackLangShowInfo
            {%
                \newlinechar='\^^J
                \def\MessageBreak{^^J}%
                \message{^^Jtracklang Info: #1 on line \the\inputlineno.^^J}%
            }%
        \fi
    }%
\else
    \def\@tracklang@info#1{%
        \ifTrackLangShowInfo
            \PackageInfo{tracklang}{#1}%
        \fi
    }%
\fi

```

`\ifTrackLangShowVerbose` Allow user to switch verbose (debugging) information messages on or off. Note that verbose information will be off regardless of this switch if the info switch is off.

```

    \newif\ifTrackLangShowVerbose
    \TrackLangShowVerbosefalse

```

`\@tracklang@verbose`

```

\def\@tracklang@verbose#1{%
    \ifTrackLangShowVerbose
        \@tracklang@info{#1}%
    \fi
}%

```

`\@tracklang@ifFileExists`

```
\ifx\IfFileExists\undefined
\long\def\@tracklang@ifFileExists#1#2#3{%
\openin0=#1 %
\ifeof0\relax
\def\@tracklang@tmp{#3}%
\else
\closein0\relax
\edef\@filef@und{#1 }%
\def\@tracklang@tmp{#2}%
\fi
\@tracklang@tmp
}

\else
\let\@tracklang@ifFileExists\IfFileExists
\fi
```

`\TrackLangEncodingName` Provide a default encoding name to avoid repeated tests to determine whether or not `\inputencodingname` has been defined.

```
\ifx\inputencodingname\undefined
\def\TrackLangEncodingName{utf8}
\else
\def\TrackLangEncodingName{\inputencodingname}
\fi
```

Provide a way to query the environment variables `LC_ALL` or `LANG` to determine the region and language. The result is stored in `\TrackLangEnv` if it can be obtained. If it can't be obtained, `\TrackLangEnv` is set to empty. Also define `\TrackLangQueryOtherEnv{<name>}` to query `LC_ALL`, `<name>`, `LANG`. For example

```
%\TrackLangQueryOtherEnv{LC\_MONETARY}
%
```

Note that there's not much that can be done from within `TEX` for the `C` or `POSIX` locale or a locale starting with a slash, so provide a check for them.

`\@tracklang@checklocale`

```
\def\@tracklang@checklocale{%
\ifx\TrackLangEnv\empty
\else
\ifx\TrackLangEnv\@tracklang@locale@posix
\def\TrackLangEnv{}%
\else
\ifx\TrackLangEnv\@tracklang@locale@c
\def\TrackLangEnv{}%
\else
\expandafter\@tracklang@checklocale
```

```

        \TrackLangEnv\empty\relax
    \fi
  \fi
\fi
}

```

`\@tracklang@checklocale` Check for leading slash.

```

\def\@tracklang@checklocale#1#2\relax{%
  \ifx#1/\relax
    \def\TrackLangEnv{}%
  \fi
}

```

`\@tracklang@locale@posix`

```

\def\@tracklang@locale@posix{POSIX}

```

`\@tracklang@locale@c`

```

\def\@tracklang@locale@c{C}

```

```

\ifx\directlua\undefined

```

We can't use Lua, so we'll have to use the shell escape if it's enabled. First determine if the shell escape is available.

`\@tracklang@tryshellescape` No shell escape.

```

\def\@tracklang@tryshellescape#1{%
  \def\TrackLangQueryEnv{%
    \@tracklang@warn{\string\TrackLangQueryEnv\space
      non-operational as shell escape has been disabled}%
  \def\TrackLangEnv{}%
  }%
  \def\TrackLangQueryOtherEnv##1{%
    \@tracklang@warn{\string\TrackLangQueryOtherEnv{##1}\space
      non-operational as shell escape has been disabled}%
  \def\TrackLangEnv{}%
  }%
  }%

  \ifx\pdfshellescape\undefined
    \ifx\shellescape\undefined

```

Can't determine if the shell escape has been enabled.

```

\def\@tracklang@tryshellescape#1{%
  \def\TrackLangQueryEnv{%
    \@tracklang@warn{\string\TrackLangQueryEnv\space
      non-operational as can't determine if the
      shell escape has been enabled. (Consider using
      eTeX or pdfTeX.)}%
  \def\TrackLangEnv{}%
  }%
}

```


`\TrackLangQueryEnv`

```
\def\TrackLangQueryEnv{%
  \begingroup\endlinechar=-1\relax
  \everyeof{\noexpand}%
  \edef\@tracklang@x{\endgroup\def\noexpand\TrackLangEnv{%
    \@tracklang@input|"kpsewhich --var-value LC_ALL" }}\@tracklang@x
  \@tracklang@checklocale
  \ifx\TrackLangEnv\empty
    \begingroup\endlinechar=-1\relax
    \everyeof{\noexpand}%
    \edef\@tracklang@x{\endgroup\def\noexpand\TrackLangEnv{%
      \@tracklang@input|"kpsewhich --var-value LANG" }}\@tracklang@x
```

Not sure if a path is likely to occur with `kpsewhich` but check for it just in case.

```
\@tracklang@checklocale
\ifx\TrackLangEnv\empty
```

Try `texosquery` if available.

```
\ifx\TeXOSQueryLocale\undefined
  \@tracklang@warn{Locale environment variables
    unavailable (tried LC\string_ALL and LANG)}%
\else
  \@tracklang@info{Using texosquery to find locale}%
  \TeXOSQueryLocale\TrackLangEnv
  \ifx\TrackLangEnv\empty
    \@tracklang@warn{Locale can't be found
      (tried querying LC\string_ALL and LANG variables and
        tried using texosquery)}%
  \fi
\fi
\fi
\fi
}%
```

`\TrackLangQueryOtherEnv`

```
\def\TrackLangQueryOtherEnv#1{%
  \begingroup\endlinechar=-1\relax
  \everyeof{\noexpand}%
  \edef\@tracklang@x{\endgroup\def\noexpand\TrackLangEnv{%
    \@tracklang@input|"kpsewhich --var-value LC_ALL" }}\@tracklang@x
  \@tracklang@checklocale
  \ifx\TrackLangEnv\empty
    \begingroup\endlinechar=-1\relax
    \everyeof{\noexpand}%
    \edef\@tracklang@x{\endgroup\def\noexpand\TrackLangEnv{%
      \@tracklang@input|"kpsewhich --var-value #1" }}\@tracklang@x
  \@tracklang@checklocale
  \ifx\TrackLangEnv\empty
    \begingroup\endlinechar=-1\relax
    \everyeof{\noexpand}%
```

```

\edef\@tracklang@x{\endgroup\def\noexpand\TrackLangEnv{%
  \@tracklang@input|"kpsewhich --var-value LANG"}}\@tracklang@x
\@tracklang@checklocale
\ifx\TrackLangEnv\empty

```

Try texosquery if available.

```

  \ifx\TeXOSQueryLocale\undefined
  \@tracklang@warn{Locale environment variables unavailable
    (tried LC\string_ALL, #1 and LANG)}%
  \else
  \@tracklang@info{Using texosquery to find locale}%
  \TeXOSQueryLocale\TrackLangEnv
  \ifx\TrackLangEnv\empty
  \@tracklang@warn{Locale can't be found
    (tried querying LC\string_ALL, #1 and LANG variables and
    tried using texosquery)}%
  \fi
  \fi
  \fi
  \fi
  \fi
  \fi
}%

}%
\else

```

\directlua is defined, so we can query it through Lua:

\TrackLangQueryEnv

```

\def\TrackLangQueryEnv{%
  \edef\TrackLangEnv{\directlua{
    l = os.getenv("LC_ALL")
    if l == nil or l == "" or l == "C" or l == "POSIX"
      or string.find(l, "~/") then
      l = os.getenv("LANG")
      if l == nil or l == "" or l == "C" or l == "POSIX"
        or string.find(l, "~/") then
        l=os.setlocale(nil)
        if l == nil or l == "C" or l == "POSIX"
          or string.find(l, "~/") then
          l = ""
        end
      end
    end
    tex.print(l)}}%
  \ifx\TrackLangEnv\empty

```

Try texosquery if available.

```

  \ifx\TeXOSQueryLocale\undefined
  \@tracklang@warn{Locale can't be found through Lua
    (tried querying LC\string_ALL and LANG variables and

```


\fi

Allowed formats for the localisation environment variables are

`<iso-lang>[_<iso-territory>][.<encoding>][@<modifier>]`

(where the square brackets above indicate an optional component not that there are literal square brackets.) This is a bit fiddly, so it needs to be broken up into manageable chunks.

`\TrackLangParseFromEnv` Parse `\TrackLangEnv`, if it has been set, and set `\TrackLangEnvLang`, `\TrackLangEnvTerritory` and `\TrackLangEnvCodeSet`. If the information is unavailable, the relevant commands will be set to empty. Use `\TrackLangFromEnv` to query, parse and set.

```
\def\TrackLangParseFromEnv{%
  \ifx\TrackLangEnv\undefined
    \@tracklang@warn{\string\TrackLangParseFromEnv\space
      non-operational as \string\TrackLangEnv\space hasn't been
      defined}%
    \def\TrackLangEnvLang{}%
    \def\TrackLangEnvTerritory{}%
    \def\TrackLangEnvCodeSet{}%
    \def\TrackLangEnvModifier{}%
  \else
    \ifx\TrackLangEnv\empty
      \@tracklang@warn{\string\TrackLangParseFromEnv\space
        non-operational as \string\TrackLangEnv\space is empty}%
      \def\TrackLangEnvLang{}%
      \def\TrackLangEnvTerritory{}%
      \def\TrackLangEnvCodeSet{}%
      \def\TrackLangEnvModifier{}%
    \else
      \@tracklang@parse@locale{\TrackLangEnv}%
      \let\TrackLangEnvLang\@TrackLangEnvLang
      \let\TrackLangEnvTerritory\@TrackLangEnvTerritory
      \let\TrackLangEnvCodeSet\@TrackLangEnvCodeSet
      \let\TrackLangEnvModifier\@TrackLangEnvModifier
    \fi
  \fi
}
```

`\@tracklang@parse@locale` Parse localisation format.

```
\def\@tracklang@parse@locale#1{%
```

Initialise.

```
\def\@TrackLangEnvLang{}%
\def\@TrackLangEnvSubLang{}%
\def\@TrackLangEnvFirstSubLang{}%
\def\@TrackLangEnvTerritory{}%
```

```

\def\@TrackLangEnvCodeSet{}%
\def\@TrackLangEnvVariant{}%
\def\@TrackLangEnvModifier{}%
\def\@TrackLangEnvScript{}%
\def\@TrackLangEnvAdditional{}%

```

Just in case argument is empty or `\relax`.

```

\expandafter\ifx\expandafter\relax#1\relax
\else

```

Parse codeset and modifier first.

```

\expandafter\@tracklang@parseenv
#1..\relax\@tracklang@end@parseenv\@tracklang@result

```

Parse language and territory.

```

\ifx\@tracklang@result\empty
\else
\expandafter\@tracklang@split@underscoreorhyp\expandafter
{\@tracklang@result}%
\let\@TrackLangEnvLang\@tracklang@split@pre
\let\@TrackLangEnvTerritory\@tracklang@split@post
\fi
\fi
}

```

`\@tracklang@split@underscoreorhyp` Split on either an underscore or a hyphen and store the results in `\@tracklang@split@pre` and `\@tracklang@split@post`

```

\def\@tracklang@split@underscoreorhyp#1{%

```

First try to split on an underscore.

```

\@tracklang@split@underscore{#1}%

```

If the post part was empty, try to split on hyphen instead.

```

\ifx\@tracklang@split@post\empty
\@tracklang@split@hyphen{#1}%

```

If the post part was empty, maybe the underscore has had its category code changed to 12.

```

\ifx\@tracklang@split@post\empty
\@tracklang@split@otherunderscore{#1}%
\fi
\fi
}

```

`\@tracklang@split@underscore` Split on an underscore and store the results in `\@tracklang@split@pre` and `\@tracklang@split@post`. First make sure that the underscore has its normal subscript category code.

```

{
\catcode'\_8\relax
\gdef\@tracklang@split@underscore#1{%
\@tracklang@split@underscore#1__\relax\@tracklang@end@split@underscore
}

```

```

}
\gdef\@tracklang@split@underscore#1_#2_#3\@tracklang@end@split@underscore{%
  \def\@tracklang@split@pre{#1}%
  \ifx\relax#3\relax
    \def\@tracklang@split@post{#2}%
  \else
    \@tracklang@split@underscore@remainder#2_#3%
  \fi
}
\gdef\@tracklang@split@underscore@remainder#1__\relax{%
  \def\@tracklang@split@post{#1}%
}
}

```

\@tracklang@split@otherunderscore As above but where underscore has catcode 12.

```

{
  \catcode'\_12\relax
  \gdef\@tracklang@split@otherunderscore#1{%
    \@tracklang@split@otherunderscore#1__\relax\@tracklang@end@split@underscore
  }
  \gdef\@tracklang@split@otherunderscore#1_#2_#3\@tracklang@end@split@underscore{%
    \def\@tracklang@split@pre{#1}%
    \ifx\relax#3\relax
      \def\@tracklang@split@post{#2}%
    \else
      \@tracklang@split@otherunderscore@remainder#2_#3%
    \fi
  }
  \gdef\@tracklang@split@otherunderscore@remainder#1__\relax{%
    \def\@tracklang@split@post{#1}%
  }
}

```

\@tracklang@split@hyphen Split on a hyphen and store the results in \@tracklang@split@pre and \@tracklang@split@post

```

{
  \catcode'\-12\relax
  \gdef\@tracklang@split@hyphen#1{%
    \@tracklang@split@hyphen#1--\relax\@tracklang@end@split@hyphen
  }
  \gdef\@tracklang@split@hyphen#1-#2-#3\@tracklang@end@split@hyphen{%
    \def\@tracklang@split@pre{#1}%
    \ifx\relax#3\relax
      \def\@tracklang@split@post{#2}%
    \else
      \@tracklang@split@hyphen@remainder#2-#3%
    \fi
  }
  \gdef\@tracklang@split@hyphen@remainder#1--\relax{%
    \def\@tracklang@split@post{#1}%
  }
}

```

```

    }
}

```

`\@tracklang@parseenv` Parse for the codeset. The first argument will be the language and (optionally) the territory. So the final argument is the control sequence to use to store the first argument, which can then be split.

```

\gdef\@tracklang@parseenv#1.#2.#3\@tracklang@end@parseenv#4{%
  \def\@TrackLangEnvCodeSet{#2}%
  \def#4{#1}%
  \ifx\@TrackLangEnvCodeSet\empty
    \tracklangparsemod#4%
  \else
    \tracklangparsemod\@TrackLangEnvCodeSet
  \fi
}

```

`\tracklangparsemod` Extract the modifier from the code set. The `@` is rather awkward as we need to change its category code as it's likely to be set to 12 within `\TrackLangEnv`. So change the category code of `@` to 12, but this means we can't use it in the command name, so although these are private internal commands they don't look like internal commands.)

```

{\catcode'\@=12\relax
 \gdef\tracklangparsemod#1{
   \expandafter\tracklangparseenvatmod#1@\relax\tracklangendparseenvatmod
   \let#1\tracklangtmp
 }%
 \gdef\tracklangparseenvatmod#1@#2@#3\tracklangendparseenvatmod{%
   \def\tracklangtmp{#1}%

```

Need to use `\csname` here as can't use internal commands.

```

\expandafter\def\csname @TrackLangEnvModifier\endcsname{#2}%

```

Sanitize in case it contains any special characters.

```

\csname @tracklang@sanitize\expandafter\endcsname
\csname @TrackLangEnvModifier\endcsname
}
}

```

4.1 Internal Lists

`\@tracklang@languages` Provide a list to keep track of all the languages.

```

\def\@tracklang@languages{}

```

`\@tracklang@dialects` Provide a list to keep track of all the dialects. Here the “dialect” isn't necessarily an actual dialect but may be a root language or a synonym. It will usually correspond to the language name as specified by the user in the package option.

```

\def\@tracklang@dialects{}

```

```
\@tracklang@ifinlist{<item>}{<list>}{<true part>}{<false part>}
```

\@tracklang@ifinlist

Checks if *<item>* is in *<list>*. (Performs a one-level expansion on *<list>* but no expansion on *<item>*.)

```
\def\@tracklang@ifinlist#1#2#3#4{%
  \def\@tracklang@doifinlist##1,#1,##2\end@tracklang@doifinlist{%
    \def\@before{##1}%
    \def\@after{##2}%
  }%
  \expandafter\@tracklang@doifinlist\expandafter,#2,#1,\@nil
  \end@tracklang@doifinlist
  \ifx\@after\@tracklang@nnil
not found
    #4%
  \else
found
    #3%
  \fi
}
```

```
\@tracklang@add{<item>}{<list cs>}
```

\@tracklang@add

Adds an item to the list given by *<list cs>*. Does nothing if *<item>* is empty or is already in the list. The *<item>* is fully expanded before being added.

```
\def\@tracklang@add#1#2{%
First find out if the item is empty.
  \edef\@tracklang@element{#1}%
  \ifx\@tracklang@element\empty
Item is empty, so do nothing.
  \else
  \expandafter\@tracklang@ifinlist\expandafter{\@tracklang@element}#2%
  {%
Already in list, so do nothing.
  }%
  {%
Not in list, so add.
  \ifx\empty#2\relax
  \let#2\@tracklang@element
  \else
  \edef#2{#2,\@tracklang@element}%
  \fi
}%
```

```
\fi
}
```

```
\AddTrackedDialect{<dialect name>}{<language name>}
```

\AddTrackedDialect

Add a dialect. (v1.3 switched from unexpanded to expanded def. All labels should be expandable.)

```
\def\AddTrackedDialect#1#2{%
  \@tracklang@add{#1}{\@tracklang@dialects}%
  \@tracklang@add{#2}{\@tracklang@languages}%
  \@tracklang@namedef{@tracklang@fromdialect@#1}{#2}%
  \@tracklang@ifundef{@tracklang@todialect@#2}%
  {\@tracklang@namedef{@tracklang@todialect@#2}{#1}}%
  {%
    \def\@tracklang@lang{#1}%
    \expandafter\@tracklang@add\expandafter\@tracklang@lang
    \csname @tracklang@todialect@#2\endcsname
  }%
}
```

Provide a convenient way of referencing the last dialect to be tracked.

```
\edef\TrackLangLastTrackedDialect{#1}%
}
```

```
\AddTrackedLanguage{<language name>}
```

\AddTrackedLanguage

Add a dialect.

```
\def\AddTrackedLanguage#1{%
  \AddTrackedDialect{#1}{#1}%
}
```

4.2 Known Languages

\@tracklang@known@langs List of known (root) languages (that may or may not be tracked).

```
\def\@tracklang@known@langs{}
```

```
\TrackLangNewLanguage{<language name>}{<639-1
code>}{<639-2 (T)>}{<639-2 (B)>}{<639-3>}{<3166-1>}{<default
script>}
```

\TrackLangNewLanguage

Identifies a new language that may be tracked. The code arguments may be empty if not available. (v1.3 switched from unexpanded to expanded def. All labels should be expandable.) Most root languages don't have an associated country code as they're spoken in multiple regions. The *<default script>* is

the default script identified with the ISO 15924 alpha script code. To reduce overheads, only define 639-3 if there's no 639-1 or 639-2 code.

```

\def\TrackLangNewLanguage#1#2#3#4#5#6#7{%
  \@tracklang@add{#1}{\@tracklang@known@langs}%
  \edef\@tracklang@tmp{#2}%
  \ifx\@tracklang@tmp\empty
  \else
    \@tracklang@enamedef{\@tracklang@knownisolang@#2}{#1}%
    \@tracklang@enamedef{\@tracklang@knowniso@639@1@#1}{#2}%
  \fi
  \edef\@tracklang@tmp{#3}%
  \ifx\@tracklang@tmp\empty
  \else
    \@tracklang@enamedef{\@tracklang@knownisolang@#3}{#1}%
    \@tracklang@enamedef{\@tracklang@knowniso@639@2@#1}{#3}%
  \fi
  \edef\@tracklang@tmp{#4}%
  \ifx\@tracklang@tmp\empty
  \else
    \@tracklang@enamedef{\@tracklang@knowniso@639@2B@#1}{#4}%
  \fi
  \edef\@tracklang@tmp{#5}%
  \ifx\@tracklang@tmp\empty
  \else
    \@tracklang@enamedef{\@tracklang@knownisolang@#5}{#1}%
    \@tracklang@enamedef{\@tracklang@knowniso@639@3@#1}{#5}%
  \fi
  \edef\@tracklang@tmp{#6}%
  \ifx\@tracklang@tmp\empty
  \else
    \@tracklang@enamedef{\@tracklang@knowniso@3166@#1}{#6}%
  \fi
  \edef\@tracklang@tmp{#7}%
  \ifx\@tracklang@tmp\empty
  \else
    \@tracklang@enamedef{\@tracklang@knowniso@script@#1}{#7}%
  \fi
}

```

```
\TrackLangIfKnownLang{<language>}{<true>}{<false>}
```

\TrackLangIfKnownLang

Tests if *<language>* is known (but not necessarily tracked).

```

\def\TrackLangIfKnownLang#1#2#3{%
  \expandafter\@tracklang@ifinlist\expandafter{#1}{\@tracklang@known@langs}%
  {#2}%
  {#3}%
}

```


\TrackLangIfKnownIsoTwoLetterLang

```
\TrackLangIfKnownIsoTwoLetterLang{language}{true}  
{false}
```

Checks if the given language has an ISO 639-1 language code (but is not necessarily tracked).

```
\def\TrackLangIfKnownIsoTwoLetterLang#1#2#3{%  
  \@tracklang@ifundef{@tracklang@knowniso@639@1@#1}%  
  {#3}%  
  {#2}%  
}
```

\TrackLangGetKnownIsoTwoLetterLang

```
\TrackLangGetKnownIsoTwoLetterLang{language}
```

Gets the ISO 639-1 language code for the given language.

```
\def\TrackLangGetKnownIsoTwoLetterLang#1{%  
  \@tracklang@nameuse{@tracklang@knowniso@639@1@#1}%  
}
```

\TrackLangIfKnownIsoThreeLetterLang

```
\TrackLangIfKnownIsoThreeLetterLang{language}{true}  
{false}
```

Checks if the given language has an ISO 639-2 language code (but is not necessarily tracked).

```
\def\TrackLangIfKnownIsoThreeLetterLang#1#2#3{%  
  \@tracklang@ifundef{@tracklang@knowniso@639@2@#1}%  
  {#3}%  
  {#2}%  
}
```

\TrackLangGetKnownIsoThreeLetterLang

```
\TrackLangGetKnownIsoThreeLetterLang{language}
```

Gets the ISO 639-2 language code.

```
\def\TrackLangGetKnownIsoThreeLetterLang#1{%  
  \@tracklang@nameuse{@tracklang@knowniso@639@2@#1}%  
}
```

\TrackLangIfKnownIsoThreeLetterLangB

```
\TrackLangIfKnownIsoThreeLetterLangB{language}{true}  
{false}
```

Checks if the given language has an ISO 639-2 (B) language code (but is not necessarily tracked).

```

\def\TrackLangIfKnownIsoThreeLetterLangB#1#2#3{%
  \@tracklang@ifundef{@tracklang@knowniso@639@2B@#1}%
  {#3}%
  {#2}%
}

```

`\TrackLangGetKnownIsoThreeLetterLangB{<language>}`

`\TrackLangGetKnownIsoThreeLetterLangB`

Gets the ISO 639-2 (B) language code.

```

\def\TrackLangGetKnownIsoThreeLetterLangB#1{%
  \@tracklang@nameuse{@tracklang@knowniso@639@2B@#1}%
}

```

`\TrackLangIfKnownLangFromIso{<ISO code>}{<true>}{<false>}`

`\TrackLangIfKnownLangFromIso`

Checks if the given ISO language code (639-1 or 639-2 or 639-3) is recognised (but not necessarily tracked).

```

\def\TrackLangIfKnownLangFromIso#1#2#3{%
  \@tracklang@ifundef{@tracklang@knownisolang@#1}%
  {#3}%
  {#2}%
}

```

`\TrackLangGetKnownLangFromIso{<ISO code>}`

`\TrackLangGetKnownLangFromIso`

Gets the root language label from the given ISO code (639-1 or 639-2).

```

\def\TrackLangGetKnownLangFromIso#1{%
  \@tracklang@nameuse{@tracklang@knownisolang@#1}%
}

```

`\TrackLangIfHasKnownCountry{<language>}{<true>}{<false>}`

`\TrackLangIfHasKnownCountry`

Checks if the given language has an ISO 3166-1 country code (but is not necessarily tracked).

```

\def\TrackLangIfHasKnownCountry#1#2#3{%
  \@tracklang@ifundef{@tracklang@knowniso@3166@#1}%
  {#3}%
  {#2}%
}

```

`\TrackLangGetKnownCountry{<language>}`

`\TrackLangGetKnownCountry`

Fetches the ISO 3166-1 country code for the given language.

```
\def\TrackLangGetKnownCountry#1{%  
  \@tracklang@nameuse{@tracklang@knowniso@3166@#1}%  
}
```

```
\TrackLangGetDefaultScript{<language>}
```

\TrackLangGetDefaultScript

Gets the default script for the given root language label.

```
\def\TrackLangGetDefaultScript#1{%  
  \@tracklang@nameuse{@tracklang@knowniso@script@#1}%  
}
```

```
\TrackLangIfHasDefaultScript{<language>}{<true>}{<false>}
```

\TrackLangIfHasDefaultScript

If there's a default script for <language>, do <true> otherwise do <false>.

```
\def\TrackLangIfHasDefaultScript#1#2#3{%  
  \@tracklang@ifundef{@tracklang@knowniso@script@#1}{#3}{#2}%  
}
```

4.3 Mappings

```
\AddTrackedIsoLanguage{<code type>}{<code>}{<language>}
```

\AddTrackedIsoLanguage

Adds a mapping between the given ISO code and language name. There may be multiple mappings from an ISO code to a language name, but only one mapping from a language name to an ISO code. (v1.3 switched from unexpanded to expanded def. All labels should be expandable.)

```
\def\AddTrackedIsoLanguage#1#2#3{%  
  \@tracklang@namedef{@tracklang@#1@isofromlang@#3}{#2}%  
  \@tracklang@ifundef{@tracklang@#1@isotolang@#2}%  
  {\@tracklang@namedef{@tracklang@#1@isotolang@#2}{#3}}%  
  {%  
    \def\@tracklang@lang{#3}%  
    \expandafter\@tracklang@add\expandafter\@tracklang@lang  
    \csname @tracklang@#1@isotolang@#2\endcsname  
  }%  
}
```

```
\TrackedLanguageFromIsoCode{<code type>}{<code>}
```

\TrackedLanguageFromIsoCode

Fetches the language label (or labels) associated with the given code.

```
\def\TrackedLanguageFromIsoCode#1#2{%  
  \@tracklang@nameuse{@tracklang@#1@isotolang@#2}%  
}
```

}

`\TrackedIsoCodeFromLanguage{<code type>}{<language>}`

`\TrackedIsoCodeFromLanguage`

Fetches the code associated with the given language or dialect.

```
\def\TrackedIsoCodeFromLanguage#1#2{%
  \@tracklang@nameuse{@tracklang@#1@isofromlang@#2}%
}
```

`\TrackedLanguageFromDialect{<dialect>}`

`\TrackedLanguageFromDialect`

Fetches the language name from the given dialect.

```
\def\TrackedLanguageFromDialect#1{%
  \@tracklang@nameuse{@tracklang@fromdialect@#1}%
}
```

`\TrackedDialectsFromLanguage{<root language label>}`

`\TrackedDialectsFromLanguage`

Fetches the tracked dialects whose language is given by *<root language label>*.

```
\def\TrackedDialectsFromLanguage#1{%
  \@tracklang@nameuse{@tracklang@todialect@#1}%
}
```

`\TwoLetterIsoCountryCode`

```
\def\TwoLetterIsoCountryCode{3166-1}
```

`\TwoLetterIsoLanguageCode`

```
\def\TwoLetterIsoLanguageCode{639-1}
```

`\ThreeLetterIsoLanguageCode`

```
\def\ThreeLetterIsoLanguageCode{639-2}
```

`ThreeLetterExtIsoLanguageCode`

```
\def\ThreeLetterExtIsoLanguageCode{639-3}
```

`\SetTrackedDialectModifier{<dialect>}{<value>}`

`\SetTrackedDialectModifier`

Set the modifier for *<dialect>*. (For example, old or new.) Arguments are expanded.

```
\def\SetTrackedDialectModifier#1#2{%
  \@tracklang@namedef{@tracklang@modifier@#1}{#2}%
}
```

```
\GetTrackedDialectModifier{⟨dialect⟩}
```

\GetTrackedDialectModifier

Get the modifier for ⟨dialect⟩.

```
\def\GetTrackedDialectModifier#1{%  
  \@tracklang@nameuse{@tracklang@modifier@#1}%  
}
```

```
\IfHasTrackedDialectModifier{⟨dialect⟩}{⟨true⟩}{⟨false⟩}
```

\IfHasTrackedDialectModifier

If there's a modifier for ⟨dialect⟩, do ⟨true⟩ otherwise do ⟨false⟩.

```
\def\IfHasTrackedDialectModifier#1#2#3{%  
  \@tracklang@ifundef{@tracklang@modifier@#1}{#3}{#2}%  
}
```

```
\SetTrackedDialectScript{⟨dialect⟩}{⟨value⟩}
```

\SetTrackedDialectScript

Set the script for ⟨dialect⟩. (For example, Latn or Cyril.) Arguments are expanded.

```
\def\SetTrackedDialectScript#1#2{%  
  \@tracklang@namedef{@tracklang@script@#1}{#2}%  
}
```

```
\GetTrackedDialectScript{⟨dialect⟩}
```

\GetTrackedDialectScript

Get the script for ⟨dialect⟩.

```
\def\GetTrackedDialectScript#1{%  
  \@tracklang@nameuse{@tracklang@script@#1}%  
}
```

```
\IfHasTrackedDialectScript{⟨dialect⟩}{⟨true⟩}{⟨false⟩}
```

\IfHasTrackedDialectScript

If there's a script for ⟨dialect⟩, do ⟨true⟩ otherwise do ⟨false⟩.

```
\def\IfHasTrackedDialectScript#1#2#3{%  
  \@tracklang@ifundef{@tracklang@script@#1}{#3}{#2}%  
}
```

```
\IfTrackedDialectIsScriptCs{⟨dialect⟩}{⟨cs⟩}{⟨true⟩}  
{⟨false⟩}
```

\IfTrackedDialectIsScriptCs

If the given tracked dialect has an associated script and that script code matches the replacement text for the control sequence $\langle cs \rangle$ then do $\langle true \rangle$ otherwise to $\langle false \rangle$. If the tracked dialect doesn't have an associated script then the default script for the root language is tested. The use of a control sequence allows $\backslash ifx$ for the test, which means that this command can expand. The supplementary package `tracklang-script` provides control sequences for known ISO 15924 codes.

```

\def\IfTrackedDialectIsScriptCs#1#2#3#4{%
  \IfHasTrackedDialectScript{#1}%
  {%
    \expandafter\ifx\expandafter#2\csname @tracklang@script@#1\endcsname
    #3%
  \else
    #4%
  \fi
}%
{%
  \TrackLangIfHasDefaultScript{\TrackedLanguageFromDialect{#1}}%
  {%
    \expandafter\ifx\expandafter
      #2\csname @tracklang@knowniso@script@\TrackedLanguageFromDialect{#1}\endcsname
      #3%
    \else
      #4%
    \fi
  }%
  {#4}%
}%
}

```

```
\SetTrackedDialectVariant{<dialect>}{<value>}
```

$\backslash SetTrackedDialectVariant$

Set the modifier for $\langle dialect \rangle$. (For example, old or new.) Arguments are expanded.

```

\def\SetTrackedDialectVariant#1#2{%
  \@tracklang@enamedef{@tracklang@variant@#1}{#2}%
}

```

```
\GetTrackedDialectVariant{<dialect>}
```

$\backslash GetTrackedDialectVariant$

Get the modifier for $\langle dialect \rangle$.

```

\def\GetTrackedDialectVariant#1{%
  \@tracklang@nameuse{@tracklang@variant@#1}%
}

```

<code>\IfHasTrackedDialectVariant</code>	<code>\IfHasTrackedDialectVariant{<dialect>}{<true>}{<false>}</code>
	<p>If there's a modifier for <i><dialect></i>, do <i><true></i> otherwise do <i><false></i>.</p> <pre> \def\IfHasTrackedDialectVariant#1#2#3{% \@tracklang@ifundef{@tracklang@variant@#1}{#3}{#2}% } </pre>
<code>\SetTrackedDialectSubLang</code>	<code>\SetTrackedDialectSubLang{<dialect>}{<value>}</code>
	<p>Set the sublang for <i><dialect></i>. Arguments are expanded.</p> <pre> \def\SetTrackedDialectSubLang#1#2{% \@tracklang@enamedef{@tracklang@sublang@#1}{#2}% } </pre>
<code>\GetTrackedDialectSubLang</code>	<code>\GetTrackedDialectSubLang{<dialect>}</code>
	<p>Get the sublang for <i><dialect></i>.</p> <pre> \def\GetTrackedDialectSubLang#1{% \@tracklang@nameuse{@tracklang@sublang@#1}% } </pre>
<code>\IfHasTrackedDialectSubLang</code>	<code>\IfHasTrackedDialectSubLang{<dialect>}{<true>}{<false>}</code>
	<p>If there's a sublang for <i><dialect></i>, do <i><true></i> otherwise do <i><false></i>.</p> <pre> \def\IfHasTrackedDialectSubLang#1#2#3{% \@tracklang@ifundef{@tracklang@sublang@#1}{#3}{#2}% } </pre>
<code>\SetTrackedDialectAdditional</code>	<code>\SetTrackedDialectAdditional{<dialect>}{<value>}</code>
	<p>Set the extra for <i><dialect></i>. Arguments are expanded.</p> <pre> \def\SetTrackedDialectAdditional#1#2{% \@tracklang@enamedef{@tracklang@extra@#1}{#2}% } </pre>
<code>\GetTrackedDialectAdditional</code>	<code>\GetTrackedDialectAdditional{<dialect>}</code>
	<p>Get the extra for <i><dialect></i>.</p> <pre> \def\GetTrackedDialectAdditional#1{% \@tracklang@nameuse{@tracklang@extra@#1}% } </pre>

HasTrackedDialectAdditional

`\IfHasTrackedDialectAdditional{<dialect>}{<true>}{<false>}`

If there's extra info for <dialect>, do <true> otherwise do <false>.

```
\def\IfHasTrackedDialectAdditional#1#2#3{%
  \@tracklang@ifundef{@tracklang@extra@#1}{#3}{#2}%
}
```

\GetTrackedLanguageTag

`\GetTrackedLanguageTag{<dialect>}`

Get the language tag for <dialect>.

```
\def\GetTrackedLanguageTag#1{%
  \IfTrackedLanguageHasIsoCode{639-1}{\TrackedLanguageFromDialect{#1}}%
  {\TrackedIsoCodeFromLanguage{639-1}{\TrackedLanguageFromDialect{#1}}}%
  {%
    \IfTrackedLanguageHasIsoCode{639-2}{\TrackedLanguageFromDialect{#1}}%
    {\TrackedIsoCodeFromLanguage{639-2}{\TrackedLanguageFromDialect{#1}}}%
    {%
      \IfTrackedLanguageHasIsoCode{639-3}{\TrackedLanguageFromDialect{#1}}%
      {\TrackedIsoCodeFromLanguage{639-3}{\TrackedLanguageFromDialect{#1}}}%
      {und}% undefined
    }%
  }%
  \@tracklang@ifundef{@tracklang@sublang@#1}%
  {}%
  {-\csname @tracklang@sublang@#1\endcsname}%
  \@tracklang@ifundef{@tracklang@script@#1}%
  {}%
  {-\csname @tracklang@script@#1\endcsname}%
  \IfTrackedLanguageHasIsoCode{3166-1}{#1}%
  {-\TrackedIsoCodeFromLanguage{3166-1}{#1}}%
  {}%
  \@tracklang@ifundef{@tracklang@variant@#1}%
  {}%
  {-\csname @tracklang@variant@#1\endcsname}%
  \@tracklang@ifundef{@tracklang@extra@#1}%
  {}%
  {-\csname @tracklang@extra@#1\endcsname}%
}
```

\SetCurrentTrackedDialect

`\SetCurrentTrackedDialect{<dialect>}`

Provided for use by language hooks to establish the current tracked dialect. This command doesn't change \languagenname or hyphenation patterns etc. It just provides convenient commands that can be accessed. The argument may

be a tracklang dialect label or the language hook label from which a tracklang dialect label can be obtained or the root language label.

```
\def\SetCurrentTrackedDialect#1{%
  \edef\CurrentTrackedDialect{#1}%
  \@tracklang@verbose{Setting current tracked dialect '\CurrentTrackedDialect'}%
  \IfTrackedDialect{\CurrentTrackedDialect}%
  {%
    \@tracklang@verbose{Not a recognised tracklang label}%
```

Has a mapping from this dialect to a tracklang dialect been supplied?

```
\IfHookHasMappingFromTrackedDialect{\CurrentTrackedDialect}%
{%
  \IfTrackedDialect{\GetTrackedDialectFromMapping\CurrentTrackedDialect}%
  {%
    \edef\CurrentTrackedDialect{\GetTrackedDialectFromMapping
      {\CurrentTrackedDialect}}%
    \@tracklang@verbose{Mapping found to tracklang label '\CurrentTrackedDialect'}%
  }%
  {%
```

Has the root language name been supplied?

```
\IfTrackedLanguage{#1}%
{%
  \@tracklang@verbose{Supplied label is a root language.
    Finding last tracked dialect for language '#1'}%
```

Get the last dialect to be tracked with this language.

```
\edef\@tracklang@dialects{\TrackedDialectsFromLanguage{#1}}%
\@tracklang@for\@tracklang@dialect:=\@tracklang@dialects\do{%
  \let\CurrentTrackedDialect\@tracklang@dialect
}%
}%
{%
  \@tracklang@verbose{No tracklang dialect found for label '#1'}%
}%
}%
{%
  \@tracklang@verbose{No mapping found}%
```

Has the root language name been supplied?

```
\IfTrackedLanguage{#1}%
{%
  \@tracklang@verbose{Supplied label is a root language.
    Finding last tracked dialect for language '#1'}%
```

Get the last dialect to be tracked with this language.

```
\edef\@tracklang@dialects{\TrackedDialectsFromLanguage{#1}}%
\@tracklang@for\@tracklang@dialect:=\@tracklang@dialects\do{%
  \let\CurrentTrackedDialect\@tracklang@dialect
```

```

    }%
  }%
  {%
    \@tracklang@verbose{No tracklang dialect found for label '#1'}%
  }%
}%
}%
\IfTrackedDialect{\CurrentTrackedDialect}%
{%
  \edef\CurrentTrackedLanguage{%
    \TrackedLanguageFromDialect{\CurrentTrackedDialect}}%
  \edef\CurrentTrackedDialectModifier{%
    \GetTrackedDialectModifier{\CurrentTrackedDialect}}%
  \edef\CurrentTrackedDialectVariant{%
    \GetTrackedDialectVariant{\CurrentTrackedDialect}}%
}

Get the default script if not set.
\IfHasTrackedDialectScript{\CurrentTrackedDialect}%
{%
  \edef\CurrentTrackedDialectScript{%
    \GetTrackedDialectScript{\CurrentTrackedDialect}}%
}%
{%
  \edef\CurrentTrackedDialectScript{%
    \TrackLangGetDefaultScript\CurrentTrackedLanguage}%
}%
\edef\CurrentTrackedDialectSubLang{%
  \GetTrackedDialectSubLang{\CurrentTrackedDialect}}%
\edef\CurrentTrackedDialectAdditional{%
  \GetTrackedDialectAdditional{\CurrentTrackedDialect}}%
\edef\CurrentTrackedLanguageTag{%
  \GetTrackedLanguageTag{\CurrentTrackedDialect}}%
}

Region code.
\IfTrackedLanguageHasIsoCode{3166-1}{\CurrentTrackedDialect}%
{%
  \edef\CurrentTrackedRegion{%
    \TrackedIsoCodeFromLanguage{3166-1}{\CurrentTrackedDialect}}%
}%
{\def\CurrentTrackedRegion{}}%

Language code.
\IfTrackedLanguageHasIsoCode{639-1}{\CurrentTrackedLanguage}%
{%
  \edef\CurrentTrackedIsoCode{%
    \TrackedIsoCodeFromLanguage{639-1}{\CurrentTrackedLanguage}}%
}%
{%
  \IfTrackedLanguageHasIsoCode{639-2}{\CurrentTrackedLanguage}%
  {%
    \edef\CurrentTrackedIsoCode{%

```

```

        \TrackedIsoCodeFromLanguage{639-2}{\CurrentTrackedLanguage}}%
    }%
    {%
        \IfTrackedLanguageHasIsoCode{639-3}{\CurrentTrackedLanguage}%
        {%
            \edef\CurrentTrackedIsoCode{%
                \TrackedIsoCodeFromLanguage{639-3}{\CurrentTrackedLanguage}}%
            }%
            {%
                \def\CurrentTrackedIsoCode{}%
            }%
        }%
    }%
}
\@tracklang@verbose{Current tracked dialect: '\CurrentTrackedDialect'.\MessageBreak
Language: '\CurrentTrackedLanguage'.\MessageBreak
ISO code: '\CurrentTrackedIsoCode'.\MessageBreak
Sub-lang: '\CurrentTrackedDialectSubLang'.\MessageBreak
Modifier: '\CurrentTrackedDialectModifier'.\MessageBreak
Variant: '\CurrentTrackedDialectVariant'.\MessageBreak
Script: '\CurrentTrackedDialectScript'.\MessageBreak
Region: '\CurrentTrackedRegion'.\MessageBreak
Additional: '\CurrentTrackedDialectAdditional'.\MessageBreak
Tag: '\CurrentTrackedLanguageTag'.
}%
}%
{%
    \@tracklang@warn{Unknown dialect label '#1' passed to
        \string\SetCurrentTrackedDialect}%
    \edef\CurrentTrackedLanguage{\language}%
    \def\CurrentTrackedDialectModifier{}%
    \def\CurrentTrackedDialectVariant{}%
    \def\CurrentTrackedDialectScript{}%
    \def\CurrentTrackedDialectSubLang{}%
    \def\CurrentTrackedDialectAdditional{}%
    \def\CurrentTrackedIsoCode{}%
    \def\CurrentTrackedRegion{}%
    \def\CurrentTrackedLanguageTag{\und}%
}%
}

```

`\AddTrackedLanguageIsoCodes{<language>}`

`\AddTrackedLanguageIsoCodes`

Adds the 639-1, 639-2 and 639-3 ISO codes for the given language, which must have previously been declared using `\TrackLangNewLanguage`.

```

\def\AddTrackedLanguageIsoCodes#1{%
    \@tracklang@ifundef{\@tracklang@knowniso@639@1@#1}%
    }%
    {%

```

```

\AddTrackedIsoLanguage\TwoLetterIsoLanguageCode
  {\csname @tracklang@knowniso@639@1@#1\endcsname}{#1}%
}%
\@tracklang@ifundef{@tracklang@knowniso@639@2@#1}%
{}%
{%
  \AddTrackedIsoLanguage\ThreeLetterIsoLanguageCode
    {\csname @tracklang@knowniso@639@2@#1\endcsname}{#1}%
Does it have a different 639-2 (B) code?
\@tracklang@ifundef{@tracklang@knowniso@639@2B@#1}%
{}%
{%
  \AddTrackedIsoLanguage{\ThreeLetterIsoLanguageCode-T}%
    {\csname @tracklang@knowniso@639@2@#1\endcsname}{#1}%
  \AddTrackedIsoLanguage{\ThreeLetterIsoLanguageCode-B}%
    {\csname @tracklang@knowniso@639@2B@#1\endcsname}{#1}%
}%
}%
\@tracklang@ifundef{@tracklang@knowniso@639@3@#1}%
{}%
{%
  \AddTrackedIsoLanguage\ThreeLetterExtIsoLanguageCode
    {\csname @tracklang@knowniso@639@3@#1\endcsname}{#1}%
}%
}

```

`\AddTrackedCountryIsoCode` As above but adds the 3166-1 country code if provided. Most root languages don't have an associated country code as they're spoken in multiple regions. Some of those that do have an associated region code may also be spoken as a minority language elsewhere, so this is separate from the previous command. If a regionless setting is required, use `\TrackLocale` instead of `\TrackPredefinedDialect`.

```

\def\AddTrackedCountryIsoCode#1{%
  \@tracklang@ifundef{@tracklang@knowniso@3166@#1}%
  {}%
  {%
    \AddTrackedIsoLanguage{3166-1}%
      {\csname @tracklang@knowniso@3166@#1\endcsname}{#1}%
  }%
}

```

4.4 Tracking Languages and Dialects

The commands here are provided to indicate that a language or dialect is active (tracked) in the document.

```
\TrackPredefinedDialect{<dialect label>}
```

`\TrackPredefinedDialect`

Track a predefined language or dialect.

```
\def\TrackPredefinedDialect#1{%
  \@tracklang@ifundef{@tracklang@add@#1}%
  {%
    \@tracklang@err{Dialect or language ‘#1’ is not predefined}{}%
  }%
  {\@tracklang@nameuse{@tracklang@add@#1}}%
}
```

`\@tracklang@hassecondchar` Check if second argument is present (non-empty and not `\relax`).

```
\def\@tracklang@hassecondchar#1#2\@end@tracklang@hassecondchar#3#4{%
  \ifx\relax#2\relax
    #4%
  \else
    #3%
  \fi
}
```

`\@tracklang@hasthirdchar` Check if third argument is present (non-empty and not `\relax`).

```
\def\@tracklang@hasthirdchar#1#2#3\@end@tracklang@hasthirdchar#4#5{%
  \ifx\relax#3\relax
    #5%
  \else
    #4%
  \fi
}
```

`\@tracklang@hasfourthchar` Check if fourth argument is present (non-empty and not `\relax`).

```
\def\@tracklang@hasfourthchar#1#2#3#4\@end@tracklang@hasfourthchar#5#6{%
  \ifx\relax#4\relax
    #6%
  \else
    #5%
  \fi
}
```

`\@tracklang@hasfifthchar` Check if fifth argument is present (non-empty and not `\relax`).

```
\def\@tracklang@hasfifthchar#1#2#3#4#5\@end@tracklang@hasfifthchar#6#7{%
  \ifx\relax#5\relax
    #7%
  \else
    #6%
  \fi
}
```

`\@tracklang@hasninthchar` Check if ninth argument is present (non-empty and not `\relax`).

```

\def\@tracklang@hasninthchar#1#2#3#4#5#6#7#8#9\@end@tracklang@hasninthchar{%
  \ifx\relax#9\relax
    \expandafter\@tracklang@secondoftwo
  \else
    \expandafter\@tracklang@firstoftwo
  \fi
}

```

\@tracklang@ifalpha Check if argument a, ..., z or A, ..., Z.

```

\def\@tracklang@ifalpha#1#2#3{%
  \ifx\relax#1\relax
    First argument empty or \relax.
    #3%
  \else
    \ifnum\lccode'#1<'a\relax
      #3%
    \else
      \ifnum\lccode'#1>'z\relax
        #3%
      \else
        Is alpha.
        #2%
      \fi
    \fi
  \fi
}

```

\@tracklang@ifdigit Check if argument is digit (0,...,9).

```

\def\@tracklang@ifdigit#1#2#3{%
  \ifx\relax#1\relax
    First argument empty or \relax.
    #3%
  \else
    \ifnum'#1<'0\relax
      #3%
    \else
      \ifnum'#1>'9\relax
        #3%
      \else
        Is digit.
        #2%
      \fi
    \fi
  \fi
}

```

`\@tracklang@ifalldigits` Check if the argument only consists of digits (no sign).

```
\def\@tracklang@ifalldigits#1{%
\expandafter\ifx\relax#1\relax
\expandafter\@tracklang@secondoftwo
\else
\expandafter\@@tracklang@ifalldigits#1\@tracklang@nnil
\fi
}
```

`\@@tracklang@ifalldigits`

```
\def\@@tracklang@ifalldigits#1{%
\ifx#1\@tracklang@nnil
\def\@tracklang@next{\expandafter\@tracklang@firstoftwo}%
\else
\@tracklang@ifdigit{#1}%
{%
\let\@tracklang@next\@@tracklang@ifalldigits
}%
{%
\def\@tracklang@next##1\@tracklang@nnil{%
\expandafter\@tracklang@secondoftwo}%
}%
\fi
\@tracklang@next
}
```

`\@tracklang@ifalphanumeric` Check if argument is an alphanumeric (0,...,9) or (a,...,z) or (A,...,Z).

```
\def\@tracklang@ifalphanumeric#1#2#3{%
\@tracklang@ifalpha{#1}%
{#2}%
{%
\@tracklang@ifdigit{#1}{#2}{#3}%
}%
}
```

`\TrackLangIfAlphaNumericChar{<tag>}{<true>}{<false>}`

`\TrackLangIfAlphaNumericChar`

Check if the argument is a single alphanumeric character.

```
\def\TrackLangIfAlphaNumericChar#1#2#3{%
\expandafter\ifx\expandafter\relax#1\relax
```

Tag empty or `\relax`.

```
#3%
\else
\expandafter\@tracklang@hassecondchar#1\relax\relax
\@end@tracklang@hassecondchar
{#3}%
{\expandafter\@tracklang@ifalphanumeric#1{#2}{#3}}%
```

```
\fi
}
```

```
\TrackLangIfLanguageTag{<tag>}{<true>}{<false>}
```

```
\TrackLangIfLanguageTag
```

Check if the argument is a language tag (two or three letter lower case).

```
\def\TrackLangIfLanguageTag#1#2#3{%
\expandafter\@tracklang@hasthirdchar#1\relax\relax\relax
\@end@tracklang@hasthirdchar
{%
```

Has 3 or more characters.

```
\expandafter\@tracklang@hasfourthchar#1\relax\@end@tracklang@hasfourthchar
{#3}%
{%
```

Has 3 characters. Are they all lower case?

```
\expandafter\@tracklang@iflanguage@iii@tag#1{#2}{#3}%
}%
}%
{%
```

Has less than 3 characters.

```
\expandafter\@tracklang@hassecondchar#1\relax\relax
\@end@tracklang@hassecondchar
{%
```

Has two characters. Are they both lower case?

```
\expandafter\@tracklang@iflanguage@ii@tag#1{#2}{#3}%
}%
{#3}%
}%
}
```

```
@tracklang@iflanguage@ii@tag
```

```
\def\@tracklang@iflanguage@ii@tag#1#2#3#4{%
\ifnum\lccode'#1='#1\relax
\ifnum\lccode'#2='#2\relax
#3%
\else
#4%
\fi
\else
#4%
\fi
}
```

```
@tracklang@iflanguage@iii@tag
```

```
\def\@tracklang@iflanguage@iii@tag#1#2#3#4#5{%
```



```

\ifnum\lccode'#1='#1\relax
\ifnum\lccode'#2='#2\relax
\ifnum\lccode'#3='#3\relax
#4%
\else
#5%
\fi
\else
#5%
\fi
\else
#5%
\fi
}

```

```
\TrackLangIfRegionTag{<tag>}{<true>}{<false>}
```

\TrackLangIfRegionTag

Check if the argument is a region tag (two letter upper case or three digit numeric).

```

\def\TrackLangIfRegionTag#1#2#3{%
\expandafter\@tracklang@hasthirdchar#1\relax\relax\relax
\@end@tracklang@hasthirdchar
{#3%

```

Has 3 or more characters. Is it a three digit numeric code?

```

\expandafter\@tracklang@hasfourthchar#1\relax\@end@tracklang@hasfourthchar
{#4%

```

Has 4 or more characters.

```

#3%
}%
{#4%

```

Has 3 characters. Are they all digits?

```

\@tracklang@ifalldigits{#1}{#2}{#3}%
}%
}%
{#3%

```

Has less than 3 characters.

```

\expandafter\@tracklang@hassecondchar#1\relax\relax
\@end@tracklang@hassecondchar
{#2%

```

Has two characters. Are they both upper case?

```

\expandafter\@tracklang@ifregion@ii@tag#1{#2}{#3}%
}%
{#3}%
}%
}

```

`\@tracklang@ifregion@ii@tag`

```
\def\@tracklang@ifregion@ii@tag#1#2#3#4{%
  \ifnum\uccode'#1='#1\relax
    \ifnum\uccode'#2='#2\relax
      #3%
    \else
      #4%
    \fi
  \else
    #4%
  \fi
}
```

`\@tracklang@ifregion@iii@tag`

```
\def\@tracklang@ifregion@iii@tag#1#2#3#4#5{%
  \ifnum\uccode'#1='#1\relax
    \ifnum\uccode'#2='#2\relax
      \ifnum\uccode'#3='#3\relax
        #4%
      \else
        #5%
      \fi
    \else
      #5%
    \fi
  \else
    #5%
  \fi
}
```

`\TrackLangIfScriptTag{<tag>}{<true>}{<false>}`

`\TrackLangIfScriptTag`

Check if the argument is a script tag (four letter title case).

```
\def\TrackLangIfScriptTag#1#2#3{%
  \expandafter\@tracklang@hasfifthchar#1\relax\relax\relax\relax\relax
  \@end@tracklang@hasfifthchar
  {#3}%
  {%
```

Has less than 5 characters.

```
\expandafter\@tracklang@hasfourthchar#1\relax\relax\relax\relax
\@end@tracklang@hasfourthchar
{%
```

Has four characters. Are they title case? (First letter upper case, others lower case.)

```
\expandafter\@tracklang@ifscripttag#1{#2}-{#3}%
}%
```

```

    {#3}%
  }%
}

```

`\@tracklang@ifscripttag`

```

\def\@tracklang@ifscripttag#1#2#3#4#5#6{%
  \ifnum\uccode'#1=#1\relax
    \ifnum\lccode'#2=#2\relax
      \ifnum\lccode'#3=#3\relax
        \ifnum\lccode'#4=#4\relax
          #5%
        \else
          #6%
        \fi
      \else
        #6%
      \fi
    \else
      #6%
    \fi
  \else
    #6%
  \fi
}

```

`\TrackLangIfVariantTag{<tag>}{<true>}{<false>}`

`\TrackLangIfVariantTag`

Check if the argument is a variant tag.

```

\def\TrackLangIfVariantTag#1#2#3{%
  \expandafter\@tracklang@hasfifthchar#1\relax\relax\relax\relax\relax
  \@end@tracklang@hasfifthchar
  {%

```

Has at least 5 characters. Does it have a maximum of 8?

```

  \expandafter\@tracklang@hasninthchar#1\relax\relax\relax\relax\relax
  \relax\relax\relax\relax
  \@end@tracklang@hasninthchar
  {#3}%
  {#2}%
  }%
  {%

```

Less than 5 characters.

```

  \expandafter\@tracklang@hasfourthchar#1\relax\relax\relax\relax
  \@end@tracklang@hasfourthchar
  {%

```

Has 4 characters.

```

  \expandafter\@tracklang@ifvariant@iv@tag#1{#2}{#3}%

```

```

    }%
    {#3}%
  }%
}

```

`\@tracklang@ifvariant@iv@tag` four character variant starting with a digit.

```

\def\@tracklang@ifvariant@iv@tag#1#2#3#4#5#6{%
  \@tracklang@ifdigit{#1}%
  {#5}
  {#6}%
}

```

`\@tracklang@parse@extlang` `\@TrackLangEnvSubLang`, `\@tracklang@split@pre` and `\tracklang@split@post` should be initialised before use. This assumes the tag is well formed.

```

\def\@tracklang@parse@extlang{%
  \TrackLangIfLanguageTag{\@tracklang@split@pre}
  {%
    \ifx\@TrackLangEnvSubLang\empty
      \let\@TrackLangEnvSubLang\@tracklang@split@pre
      \let\@TrackLangEnvFirstSubLang\@TrackLangEnvSubLang
    \else
      \edef\@TrackLangEnvSubLang{\@TrackLangEnvSubLang-\@tracklang@split@pre}%
    \fi
  }

```

Split again if there's more.

```

\ifx\@tracklang@split@post\empty
\else
  \expandafter\@tracklang@split@underscoreorhyp\expandafter
    {\@tracklang@split@post}%
  \ifx\@tracklang@split@pre\empty
  \else
    \@tracklang@parse@extlang
  \fi
\fi
}%
{ }%
}

```

`\@tracklang@parse@variant` `\@TrackLangEnvVariant`, `\@tracklang@split@pre` and `\tracklang@split@post` should be initialised before use.

```

\def\@tracklang@parse@variant{%
  \TrackLangIfVariantTag{\@tracklang@split@pre}
  {%
    \ifx\@TrackLangEnvVariant\empty
      \let\@TrackLangEnvVariant\@tracklang@split@pre
    \else
      \edef\@TrackLangEnvVariant{\@TrackLangEnvVariant
        -\@tracklang@split@pre}%
    \fi
  }

```

Split again if there's more.

```
\ifx\@tracklang@split@post\empty
\else
\expandafter\@tracklang@split@underscoreorhyp\expandafter
{\@tracklang@split@post}%
\ifx\@tracklang@split@pre\empty
\else
\@tracklang@parse@variant
\fi
\fi
}%
}%
}
```

`\TrackLanguageTag{<tag>}`

`\TrackLanguageTag`

Parse RFC 5646 language tag (assumes regular and well-formed). See also <https://tools.ietf.org/html/rfc5646>. Ensure `<tag>` is fully-expanded. Warn if argument is empty.

```
\def\TrackLanguageTag#1{%
\edef\@tracklang@tag{#1}%
\ifx\@tracklang@tag\empty
\@tracklang@warn{Empty tag in \string\TrackLanguageTag}%
\else
\expandafter\@TrackLanguageTag\expandafter{\@tracklang@tag}%
\fi
}
```

`\@TrackLanguageTag` Argument must be expanded.

```
\def\@TrackLanguageTag#1{%
\@tracklang@ifundef{\@tracklang@add@#1}%
{%
```

Parse language tag.

```
\@tracklang@parselangtag{#1}%
```

Track this information.

```
\@tracklang@track@locale
}%
{%
```

Predefined tag.

```
\@tracklang@nameuse{\@tracklang@add@#1}%
}%
}
```

```
\TrackIfKnownLanguage{<tag>}{<success code>}{<fail code>}
```

\TrackIfKnownLanguage

Like \TrackLanguageTag but does *<fail code>* if the tag doesn't contain a valid language code. If successful, does *<success code>* after tracking the language.

```
\def\TrackIfKnownLanguage#1#2#3{%
  \edef\@tracklang@tag{#1}%
  \ifx\@tracklang@tag\empty
    #3%
  \else
    \expandafter\@TrackIfKnownLanguage\expandafter{\@tracklang@tag}{#2}{#3}%
  \fi
}
```

\@TrackIfKnownLanguage Argument must be expanded.

```
\def\@TrackIfKnownLanguage#1#2#3{%
```

First check if it's predefined.

```
\@tracklang@ifundef{\@tracklang@add@#1}%
{%
```

Parse language tag.

```
\@tracklang@parselangtag{#1}%
```

Track this information if \@TrackLangEnvLang is a known ISO language code.

```
\TrackLangIfKnownLangFromIso{\@TrackLangEnvLang}%
{\@tracklang@track@locale#2}{#3}%
}%
{%
```

Predefined tag.

```
\@tracklang@nameuse{\@tracklang@add@#1}%
#2%
}%
}
```

\@tracklang@parse@langtag

```
\def\@tracklang@parselangtag#1{%
```

Initialise.

```
\def\@TrackLangEnvLang{}%
\def\@TrackLangEnvSubLang{}%
\def\@TrackLangEnvFirstSubLang{}%
\def\@TrackLangEnvTerritory{}%
\def\@TrackLangEnvCodeSet{}%
\def\@TrackLangEnvVariant{}%
\def\@TrackLangEnvModifier{}%
\def\@TrackLangEnvScript{}%
\def\@TrackLangEnvAdditional{}%
```

First split to determine language code.

```
\@tracklang@split@underscoreorhyp{#1}%
```

Save the result.

```
\let\@TrackLangEnvLang\@tracklang@split@pre
```

Is there anything else?

```
\ifx\@tracklang@split@post\empty
```

That's it.

```
\else
```

Split again.

```
\expandafter\@tracklang@split@underscoreorhyp\expandafter  
{\@tracklang@split@post}%
```

Is this an extension to the language tag?

```
\@tracklang@parse@extlang
```

Does this fit the format for a script?

```
\TrackLangIfScriptTag{\@tracklang@split@pre}%  
{%
```

Found script.

```
\let\@TrackLangEnvScript\@tracklang@split@pre
```

Split again if there's more.

```
\ifx\@tracklang@split@post\empty
```

```
\else
```

```
\expandafter\@tracklang@split@underscoreorhyp\expandafter  
{\@tracklang@split@post}%
```

```
\fi
```

```
}%
```

```
{}%
```

Does this fit the format for a region?

```
\TrackLangIfRegionTag{\@tracklang@split@pre}%  
{%
```

Found region. Is it a 2 letter alpha or a 3 digit numeric code?

```
\expandafter\@tracklang@hasthirdchar\@tracklang@split@pre  
\relax\relax\relax  
\@end@tracklang@hasthirdchar  
{%
```

Is three digit numeric code. We need the mappings. Has `tracklang-region-codes.tex` been loaded?

```
\ifx\TrackLangIfKnownNumericRegion\undefined  
\@tracklang@input tracklang-region-codes.tex
```

```
\fi
```

```
\TrackLangIfKnownNumericRegion{\@tracklang@split@pre}%
```

```
{%
```

```
\edef\@TrackLangEnvTerritory{%
```

```
\TrackLangNumericToAlphaIIRegion{\@tracklang@split@pre}%
```

```
}%
```

```
}%
```

```

    {%
      \let\@TrackLangEnvTerritory\@tracklang@split@pre
      \@tracklang@warn{Unrecognised numeric region code
        '\@tracklang@split@pre'}%
    }%
  }%
  {%

```

Is two letter alpha code.

```

    \let\@TrackLangEnvTerritory\@tracklang@split@pre
  }%
  \expandafter\@tracklang@split@underscoreorhyps\expandafter
    {\@tracklang@split@post}%
  }%
  {}%

```

Parse for variant.

```

    \@tracklang@parse@variant

```

Anything left can go in additional.

```

    \let\@TrackLangEnvAdditional\@tracklang@split@post
  \fi
  }%

```

`\input@extra@region@filelist`

```

\def\@tracklang@extra@region@filelist{}

```

`\TrackLangAddExtraRegionFile` Add a file name to the list of extra region code files that should be input by tracklang-regions-codes.tex

```

\def\TrackLangAddExtraRegionFile#1{%
  \ifx\TrackLangRegionMap\undefined
  \else
    tracklang-region-codes.tex has already been loaded so input the file now.
    \@tracklang@input #1\relax
  \fi
  \@tracklang@add{#1}{\@tracklang@extra@region@filelist}%
}

```

`\lang@input@extra@region@files` Iterate through list of extra region files to allow other packages to define new regions.

```

\def\@tracklang@input@extra@region@files{%
  \@tracklang@for\@tracklang@currfile:=\@tracklang@extra@region@filelist\do
  {%
    \@tracklang@input\@tracklang@currfile
  }%
}

```

`\input@extra@script@filelist`

```

\def\@tracklang@extra@script@filelist{}

```


`\TrackLangAddExtraScriptFile` Add the given file name to the list of files that should be automatically loaded by `tracklang-scripts.tex`

```
\def\TrackLangAddExtraScriptFile#1{%
  \ifx\TrackLangScriptMap\undefined
  \else
    tracklang-scripts.tex has already been loaded so input the file now.
    \@tracklang@input #1\relax
  \fi
  \@tracklang@add{#1}{\@tracklang@extra@script@filelist}%
}
```

`\TrackLangInputExtraScriptFiles` Iterate through list of extra script files to allow other packages to define new scripts.

```
\def\@tracklang@input@extra@script@files{%
  \@tracklang@for\@tracklang@currfile:=\@tracklang@extra@script@filelist\do
  {%
    \@tracklang@input\@tracklang@currfile
  }%
}
```

`\GetTrackedDialectFromLanguageTag{<tag>}{<cs>}`

`\TrackLangGetTrackedDialectFromLanguageTag`

Find the tracked dialect that matches the given language tag and stores the dialect label in `<cs>`. If no match found, `<cs>` will be empty. Just tests the root language, script, variant, sub-language and region. Doesn't check the additional information. As from v1.3.6, this sets `\TrackedDialectClosestSubMatch` to the closest sub-match.

```
\def\GetTrackedDialectFromLanguageTag#1#2{%
```

Initialise default values (in case of no match).

```
\def#2{%
\def\TrackedDialectClosestSubMatch{%
\@tracklang@parselangtag{#1}%
\edef\@tracklang@dialect{%
  \@TrackLangEnvLang
  \@TrackLangEnvSubLang
  \@TrackLangEnvScript
  \@TrackLangEnvTerritory
  \@TrackLangEnvModifier
  \@TrackLangEnvVariant}%
```

Has this dialect label been tracked?

```
\IfTrackedDialect{\@tracklang@dialect}%
{%
```

Found it. All done.

```
\let#2\@tracklang@dialect
}%
{%
```

Get the root language label.

```
\edef\@tracklang@lang{\TrackLangGetKnownLangFromIso\@TrackLangEnvLang}%
```

Get the default script for this language.

```
\edef\@tracklang@defscript{\TrackLangGetDefaultScript\@tracklang@lang}%
```

Keep track of best match.

```
\def\@tracklang@bestmatch{0}%
```

Get the list of tracked dialects for this language.

```
\edef\@tracklang@dialects{\TrackedDialectsFromLanguage\@tracklang@lang}%
```

For each dialect in this list, check if it matches.

```
\@tracklang@for\@tracklang@dialect:=\@tracklang@dialects\do{%
```

Does the script match? (Initialise to no.)

```
\def\@tracklang@currentmatch{0}%
```

```
\edef\@tracklang@tmp{%
```

```
\GetTrackedDialectScript{\@tracklang@dialect}}%
```

```
\ifx\@tracklang@tmp\@TrackLangEnvScript
```

Script matches.

```
\def\@tracklang@currentmatch{1}%
```

```
\else
```

Script doesn't match. If no script has been provided, does this dialect's script match the default for this language?

```
\ifx\@TrackLangEnvScript\empty
```

```
\ifx\@tracklang@tmp\@tracklang@defscript
```

Default script matches.

```
\def\@tracklang@currentmatch{1}%
```

```
\fi
```

```
\fi
```

```
\fi
```

Does the sub-language match?

```
\edef\@tracklang@tmp{%
```

```
\GetTrackedDialectSubLang{\@tracklang@dialect}}%
```

```
\ifx\@tracklang@tmp\@TrackLangEnvSubLang
```

Sub-language matches.

```
\edef\@tracklang@currentmatch{\@tracklang@currentmatch 1}%
```

```
\else
```

Sub-language doesn't match.

```
\edef\@tracklang@currentmatch{\@tracklang@currentmatch 0}%
```

```
\fi
```

Does the variant match?

```
\edef\@tracklang@tmp{%
```

```
\GetTrackedDialectVariant{\@tracklang@dialect}}%
```

```
\ifx\@tracklang@tmp\@TrackLangEnvVariant
```

Variant matches.

```
\edef\@tracklang@currentmatch{\@tracklang@currentmatch 1}%  
\else
```

Variant doesn't match.

```
\edef\@tracklang@currentmatch{\@tracklang@currentmatch 0}%  
\fi
```

Does the region match?

```
\edef\@tracklang@tmp{%  
\TrackedIsoCodeFromLanguage{3166-1}{\@tracklang@dialect}}%  
\ifx\@tracklang@tmp\@TrackLangEnvTerritory
```

Region matches.

```
\edef\@tracklang@currentmatch{\@tracklang@currentmatch 1}%  
\else
```

Region doesn't match.

```
\edef\@tracklang@currentmatch{\@tracklang@currentmatch 0}%  
\fi
```

Do all four match?

```
\ifx\@tracklang@currentmatch\@tracklang@fullmatch
```

Found it.

```
\let#2\@tracklang@dialect  
\else
```

Not a complete match. Is this the best match so far?

```
\ifnum\@tracklang@currentmatch>\@tracklang@bestmatch\relax  
\let\TrackedDialectClosestSubMatch\@tracklang@dialect  
\let\@tracklang@bestmatch\@tracklang@currentmatch  
\fi  
\fi  
}%  
}%  
}
```

`\@tracklang@fullmatch` (Used to identify a full match for script, sub-language, variant and region.)

```
\def\@tracklang@fullmatch{1111}
```

`\TrackLangFromEnv` This command performs the following steps: query environment variable (if `\TrackLangEnv` not already set), parse `\TrackLangEnv` (if it has been set), and add the dialect (if recognised).

Note that this works slightly differently from just using `\TrackLangQueryEnv` followed by `\TrackLangParseFromEnv` and `\TrackPredefinedDialect`.

```
\def\TrackLangFromEnv{%
```

Initialise.

```
\def\TrackLangEnvLang{}%  
\def\TrackLangEnvTerritory{}%  
\def\TrackLangEnvCodeSet{}%  
\def\TrackLangEnvModifier{}%
```

If `\TrackQueryEnv` is empty, assume `\TrackQueryEnv` has already been attempted but failed, so don't bother retrying.

```

\ifx\TrackLangEnv\undefined
  \TrackLangQueryEnv
\fi
\ifx\TrackLangEnv\empty
  \@tracklang@warn{\string\TrackLangFromEnv\space
    non-operational as \string\TrackLangEnv\space is empty}%
\else

```

At this point `\TrackLangEnv` shouldn't be undefined (if `\TrackLangQueryEnv` fails it should define `\TrackLangEnv` to be empty), but check in case something unexpected has happened.

```

\ifx\TrackLangEnv\undefined
  \@tracklang@warn{\string\TrackLangFromEnv\space
    non-operational as \string\TrackLangEnv\space hasn't been
    defined}%
\else

```

Parse and track.

```

  \@tracklang@parse@track@locale{\TrackLangEnv}%
  \let\TrackLangEnvLang\@TrackLangEnvLang
  \let\TrackLangEnvTerritory\@TrackLangEnvTerritory
  \let\TrackLangEnvCodeSet\@TrackLangEnvCodeSet
  \let\TrackLangEnvModifier\@TrackLangEnvModifier
\fi
\fi
}

```

```
\TrackLocale{<locale>}
```

`\TrackLocale`

Track the dialect identified by the given locale. The argument may either be a predefined language/dialect or in the same format as `\TrackLangEnv`.

```
\def\TrackLocale#1{%
```

Is the argument a recognised dialect?

```

  \@tracklang@ifundef{\@tracklang@add@#1}%
  {%
    \@tracklang@parse@track@locale{#1}%
  }%
  {%
    \@tracklang@nameuse{\@tracklang@add@#1}%
  }%
}

```

`\@tracklang@parse@track@locale` Parse localisation format and track.

```

\def\@tracklang@parse@track@locale#1{%
  \@tracklang@parse@locale{#1}%
}

```

```

    \@tracklang@track@locale
  }

\@tracklang@track@locale
\def\@tracklang@track@locale{%
Is the language code known?
\TrackLangIfKnownLangFromIso{\@TrackLangEnvLang}
{%
  \edef\@tracklang@lang{\TrackLangGetKnownLangFromIso\@TrackLangEnvLang}%
  \let\@tracklang@dialect\@TrackLangEnvLang
  \ifx\@TrackLangEnvSubLang\empty
  \else
    \edef\@tracklang@dialect{\@tracklang@dialect-\@TrackLangEnvSubLang}%
  \fi
  \ifx\@TrackLangEnvScript\empty
  \else
    \edef\@tracklang@dialect{\@tracklang@dialect-\@TrackLangEnvScript}%
  \fi
  \ifx\@TrackLangEnvTerritory\empty
  \else
    \edef\@tracklang@dialect{\@tracklang@dialect-\@TrackLangEnvTerritory}%
  \fi
  \ifx\@TrackLangEnvModifier\empty
  \else
    \edef\@tracklang@dialect{\@tracklang@dialect-\@TrackLangEnvModifier}%
  \fi
  \ifx\@TrackLangEnvVariant\empty
  \else
    \edef\@tracklang@dialect{\@tracklang@dialect-\@TrackLangEnvVariant}%
  \fi
Language code is recognised. Is the dialect label recognised?
\@tracklang@ifundef{\@tracklang@add@\@tracklang@dialect}%
{%
Not a recognised dialect. Form new dialect name (without hyphen).
  \edef\@tracklang@dialect{%
    \@TrackLangEnvLang
    \@TrackLangEnvSubLang
    \@TrackLangEnvScript
    \@TrackLangEnvTerritory
    \@TrackLangEnvModifier
    \@TrackLangEnvVariant}%
Add this new dialect.
  \AddTrackedDialect{\@tracklang@dialect}{\@tracklang@lang}%
  \AddTrackedLanguageIsoCodes{\@tracklang@lang}%
Is there a sub-language tag?
  \ifx\@TrackLangEnvFirstSubLang\empty
  \else

```

```

        \expandafter\AddTrackedIsoLanguage
        \expandafter\ThreeLetterExtIsoLanguageCode
        \expandafter{\@TrackLangEnvFirstSubLang}%
        {\@tracklang@dialect}%
    \fi
}%
{%
```

Dialect is recognised.

```

        \csname @tracklang@add@\@tracklang@dialect\endcsname
    }%
}%
{%
```

Unknown language code.

```

    \@tracklang@warn{Unknown language code ‘\@TrackLangEnvLang’}%
\edef\@tracklang@dialect{%
    \@TrackLangEnvLang
    \@TrackLangEnvSubLang
    \@TrackLangEnvScript
    \@TrackLangEnvTerritory
    \@TrackLangEnvModifier
    \@TrackLangEnvVariant}%
\AddTrackedDialect{\@tracklang@dialect}{\@TrackLangEnvLang}%

```

Determine if the language code is a two or three letter code.

```

\expandafter\@tracklang@hasthirdchar
    \@TrackLangEnvLang\relax\relax\relax\end@tracklang@hasthirdchar
}%
{%
```

639-2 code. Track it.

```

    \AddTrackedIsoLanguage{639-2}{\@TrackLangEnvLang}{\@tracklang@lang}%
}%
{%
```

639-1 code. Track it.

```

    \AddTrackedIsoLanguage{639-1}{\@TrackLangEnvLang}{\@tracklang@lang}%
}%
}%

```

Add the territory if provided. (The territory may not have been defined by the dialect option.)

```

    \ifx\@TrackLangEnvTerritory\empty
    \else
        \AddTrackedIsoLanguage{3166-1}{\@TrackLangEnvTerritory}%
        {\@tracklang@dialect}%
    \fi

```

If a modifier was provided, add that.

```

    \ifx\@TrackLangEnvModifier\empty
    \else
        \SetTrackedDialectModifier{\@tracklang@dialect}{\@TrackLangEnvModifier}%
    \fi

```

If a variant was provided, add that.

```
\ifx\@TrackLangEnvVariant\empty
\else
\SetTrackedDialectVariant{\@tracklang@dialect}{\@TrackLangEnvVariant}%
\fi
```

If a script was provided, add that.

```
\ifx\@TrackLangEnvScript\empty
\else
\SetTrackedDialectScript{\@tracklang@dialect}{\@TrackLangEnvScript}%
\fi
```

If a language extension was provided, add that.

```
\ifx\@TrackLangEnvSubLang\empty
\else
\SetTrackedDialectSubLang{\@tracklang@dialect}{\@TrackLangEnvSubLang}%
\fi
```

If additional information was provided, add that.

```
\ifx\@TrackLangEnvAdditional\empty
\else
\SetTrackedDialectAdditional{\@tracklang@dialect}{\@TrackLangEnvAdditional}%
\fi
}
```

4.5 Predefined Root Languages

The ISO 639-1 and 639-2 codes are used to map the root language name to the ISO language code. The 3166-1 codes are used to map the dialect/variant to the ISO country code. The country code is omitted if ambiguous (for example, the language is spoken in multiple countries). Languages that have a country code may be spoken as a minority language in another region. In this case, `\TrackLocale` should be used instead to set the country code as appropriate. Some “dialects” are just synonyms for a language name, such as “francais” or “frenchb”. These are defined in §4.6. Some of the languages have two ISO 639-2 codes designated as “B” (bibliographic) or “T” (terminology). In these cases the terminology code is used as the primary 639-2 code. The extra “B” and “T” codes are only provided if they are different.

`\@tracklang@declareoption` Provide a hook to declare a predefined setting as a package option. This is defined by `tracklang.sty` before loading `tracklang.tex` but if this file isn’t loaded through `tracklang.sty` provide a definition that ignores its argument if not already defined.

```
\ifx\@tracklang@declareoption\undefined
\def\@tracklang#1{}
\fi
```

`\@tracklang@providePredefinedLanguage` Set up a language label for use with `\TrackPredefinedDialect`. Note that this doesn’t check if already defined.

```

\def\TrackLangProvidePredefinedLanguage#1{%
  \@tracklang@namedef{@tracklang@add@#1}{%
    \AddTrackedLanguage{#1}%
    \AddTrackedLanguageIsoCodes{#1}%
    \AddTrackedCountryIsoCode{#1}%
  }%
}

```

```

\TrackLangDeclareLanguageOption{<language name>}{<639-1
code>}{<639-2 (T)>}{<639-2 (B)>}{<639-3>}{<3166-1>}{<default
script>}

```

\TrackLangDeclareLanguageOption

Define a new root language that's declared as an option. The language name must be expanded before use. The default script is the ISO 15924 alpha script code. (Some languages may be written in multiple scripts. Leave empty if not obvious default.)

```

\def\TrackLangDeclareLanguageOption#1#2#3#4#5#6#7{%
  \@tracklang@ifundef{@tracklang@add@#1}{%
    {%
      \TrackLangNewLanguage{#1}{#2}{#3}{#4}{#5}{#6}{#7}%
      \TrackLangProvidePredefinedLanguage{#1}%
      \@tracklang@declareoption{#1}%
    }%
    {%
      \@tracklang@err{language option '#1' has already been defined}{}%
    }%
  }
}

```

\@tracklang@add@abkhaz

```
\TrackLangDeclareLanguageOption{abkhaz}{ab}{abk}{}{}{Cyr1}
```

\@tracklang@add@afar

```
\TrackLangDeclareLanguageOption{afar}{aa}{aar}{}{}{Latn}
```

\@tracklang@add@afrikaans

```
\TrackLangDeclareLanguageOption{afrikaans}{af}{afr}{}{}{Latn}
```

\@tracklang@add@akan

```
\TrackLangDeclareLanguageOption{akan}{ak}{aka}{}{}{Latn}
```

\@tracklang@add@albanian

```
\TrackLangDeclareLanguageOption{albanian}{sq}{sqi}{alb}{}{}{Latn}
```

\@tracklang@add@amharic

```
\TrackLangDeclareLanguageOption{amharic}{am}{amh}{}{}{ET}{Ethi}
```



```

\@tracklang@add@anglosaxon
    \TrackLangDeclareLanguageOption{anglosaxon}{ang}{}{}{Runr}

\@tracklang@add@apache
    \TrackLangDeclareLanguageOption{apache}{apa}{}{}{Latn}

\@tracklang@add@arabic
    \TrackLangDeclareLanguageOption{arabic}{ar}{ara}{}{}{Arab}

\@tracklang@add@aragonese
    \TrackLangDeclareLanguageOption{aragonese}{an}{arg}{}{}{ES}{Latn}

\@tracklang@add@armenian
    \TrackLangDeclareLanguageOption{armenian}{hy}{hye}{arm}{}{}{Armn}

\@tracklang@add@assamese
    \TrackLangDeclareLanguageOption{assamese}{as}{asm}{}{}{}{Beng}

\@tracklang@add@asturian
    \TrackLangDeclareLanguageOption{asturian}{}{ast}{}{}{}{Latn}

\@tracklang@add@avaric
    \TrackLangDeclareLanguageOption{avaric}{av}{ava}{}{}{}{Cyr1}

\@tracklang@add@avestan
    \TrackLangDeclareLanguageOption{avestan}{ae}{ave}{}{}{}{Avst}

\@tracklang@add@aymara
    \TrackLangDeclareLanguageOption{aymara}{ay}{aym}{}{}{}{Latn}

\@tracklang@add@azerbaijani The default script is dependent on the region, but this is a regionless definition
    so using Latin as the default here as Azerbaijani alphabet is a Latin alphabet.
    Other countries may be using a different script, such as Cyrillic in Russia.
    \TrackLangDeclareLanguageOption{azerbaijani}{az}{aze}{}{}{}{Latn}

\@tracklang@add@bahasai
    \TrackLangDeclareLanguageOption{bahasai}{id}{ind}{}{}{IN}{Latn}

\@tracklang@add@bahasam
    \TrackLangDeclareLanguageOption{bahasam}{ms}{msa}{may}{}{MY}{Latn}

\@tracklang@add@bambara
    \TrackLangDeclareLanguageOption{bambara}{bm}{bam}{}{}{ML}{Latn}

\@tracklang@add@bashkir
    \TrackLangDeclareLanguageOption{bashkir}{ba}{bak}{}{}{}{Cyr1}

```

`\@tracklang@add@basque`
`\TrackLangDeclareLanguageOption{basque}{eu}{eus}{baq}{}{}{Latn}`

`\@tracklang@add@belarusian`
`\TrackLangDeclareLanguageOption{belarusian}{be}{bel}{}{}{Cyr1}`

`\@tracklang@add@bengali`
`\TrackLangDeclareLanguageOption{bengali}{bn}{ben}{}{}{Beng}`

`\@tracklang@add@berber` No default. Could be Tifinagh, Latin or Arabic.
`\TrackLangDeclareLanguageOption{berber}{}{ber}{}{}{}`

`\@tracklang@add@bihari` No clear default.
`\TrackLangDeclareLanguageOption{bihari}{bh}{bih}{}{}{}`

`\@tracklang@add@bislama`
`\TrackLangDeclareLanguageOption{bislama}{bi}{bis}{}{}{VU}{Latn}`

`\@tracklang@add@bokmal`
`\TrackLangDeclareLanguageOption{bokmal}{nb}{nob}{}{}{NO}{Latn}`

`\@tracklang@add@bosnian`
`\TrackLangDeclareLanguageOption{bosnian}{bs}{bos}{}{}{Latn}`

`\@tracklang@add@breton`
`\TrackLangDeclareLanguageOption{breton}{br}{bre}{}{}{FR}{Latn}`

`\@tracklang@add@bulgarian`
`\TrackLangDeclareLanguageOption{bulgarian}{bg}{bul}{}{}{Cyr1}`

`\@tracklang@add@burmese`
`\TrackLangDeclareLanguageOption{burmese}{my}{mya}{bur}{}{}{Mymr}`

`\@tracklang@add@catalan`
`\TrackLangDeclareLanguageOption{catalan}{ca}{cat}{}{}{Latn}`

`\@tracklang@add@chamorro`
`\TrackLangDeclareLanguageOption{chamorro}{ch}{cha}{}{}{Latn}`

`\@tracklang@add@chechen`
`\TrackLangDeclareLanguageOption{chechen}{ce}{che}{}{}{Cyr1}`

`\@tracklang@add@chichewa`
`\TrackLangDeclareLanguageOption{chichewa}{ny}{nya}{}{}{Latn}`

`\@tracklang@add@chinese`
`\TrackLangDeclareLanguageOption{chinese}{zh}{zho}{chi}{}{}{Hans}`

```

\tracklang@add@churchslavonic
\TrackLangDeclareLanguageOption{churchslavonic}{cu}{chu}{}{}{Glag}

\@tracklang@add@chuvash
\TrackLangDeclareLanguageOption{chuvash}{cv}{chv}{}{}{RU}{Cyr1}

\@tracklang@add@coptic
\TrackLangDeclareLanguageOption{coptic}{cop}{}{}{}{Copt}

\@tracklang@add@cornish
\TrackLangDeclareLanguageOption{cornish}{kw}{cor}{}{}{GB}{Latn}

\@tracklang@add@corsican
\TrackLangDeclareLanguageOption{corsican}{co}{cos}{}{}{}{Latn}

\@tracklang@add@cree
\TrackLangDeclareLanguageOption{cree}{cr}{cre}{}{}{}{Cans}

\@tracklang@add@croatian
\TrackLangDeclareLanguageOption{croatian}{hr}{hrv}{}{}{}{Latn}

\@tracklang@add@czech
\TrackLangDeclareLanguageOption{czech}{cs}{ces}{cze}{}{}{Latn}

\@tracklang@add@danish
\TrackLangDeclareLanguageOption{danish}{da}{dan}{}{}{}{Latn}

\@tracklang@add@divehi
\TrackLangDeclareLanguageOption{divehi}{dv}{div}{}{}{MV}{Thaa}

\@tracklang@add@dutch
\TrackLangDeclareLanguageOption{dutch}{nl}{nld}{dut}{}{}{Latn}

\@tracklang@add@dzongkha
\TrackLangDeclareLanguageOption{dzongkha}{dz}{dzo}{}{}{BT}{Tibt}

\tracklang@add@easternpunjabi
\TrackLangDeclareLanguageOption{easternpunjabi}{pa}{pan}{}{}{IN}{Guru}

\@tracklang@add@english
\TrackLangDeclareLanguageOption{english}{en}{eng}{}{}{}{Latn}

\@tracklang@add@esperanto
\TrackLangDeclareLanguageOption{esperanto}{eo}{epo}{}{}{}{Latn}

\@tracklang@add@estonian
\TrackLangDeclareLanguageOption{estonian}{et}{est}{}{}{}{Latn}

```

```

\@tracklang@add@ewe
\TrackLangDeclareLanguageOption{ewe}{ee}{ewe}{}{}{Latn}

\@tracklang@add@faroese
\TrackLangDeclareLanguageOption{faroese}{fo}{fao}{}{}{Latn}

\@tracklang@add@farsi
\TrackLangDeclareLanguageOption{farsi}{fa}{fas}{per}{}{}{Arab}

\@tracklang@add@fijian
\TrackLangDeclareLanguageOption{fijian}{fj}{fij}{}{}{FJ}{Latn}

\@tracklang@add@finnish
\TrackLangDeclareLanguageOption{finnish}{fi}{fin}{}{}{Latn}

\@tracklang@add@french
\TrackLangDeclareLanguageOption{french}{fr}{fra}{fre}{}{}{Latn}

\@tracklang@add@friulan
\TrackLangDeclareLanguageOption{friulan}{}{fur}{}{}{IT}{Latn}

\@tracklang@add@fula No default. Could be Latin or Arabic.
\TrackLangDeclareLanguageOption{fula}{ff}{ful}{}{}{}

\@tracklang@add@galician
\TrackLangDeclareLanguageOption{galician}{gl}{glg}{}{}{Latn}

\@tracklang@add@ganda
\TrackLangDeclareLanguageOption{ganda}{lg}{lug}{}{}{UG}{Latn}

\@tracklang@add@georgian
\TrackLangDeclareLanguageOption{georgian}{ka}{kat}{geo}{}{}{Geor}

\@tracklang@add@german
\TrackLangDeclareLanguageOption{german}{de}{deu}{ger}{}{}{Latn}

\@tracklang@add@greek
\TrackLangDeclareLanguageOption{greek}{el}{ell}{gre}{}{}{Grek}

\@tracklang@add@guarani
\TrackLangDeclareLanguageOption{guarani}{gn}{grn}{}{}{Latn}

\@tracklang@add@gujarati
\TrackLangDeclareLanguageOption{gujarati}{gu}{guj}{}{}{Gujr}

\@tracklang@add@haitian
\TrackLangDeclareLanguageOption{haitian}{ht}{hat}{}{}{HT}{Latn}

```

```

\@tracklang@add@hausa
\TrackLangDeclareLanguageOption{hausa}{ha}{hau}{}{}{Latn}

\@tracklang@add@hebrew
\TrackLangDeclareLanguageOption{hebrew}{he}{heb}{}{}{Hebr}

\@tracklang@add@herero
\TrackLangDeclareLanguageOption{herero}{hz}{her}{}{}{Latn}

\@tracklang@add@hindi
\TrackLangDeclareLanguageOption{hindi}{hi}{hin}{}{}{Deva}

\@tracklang@add@hirimotu
\TrackLangDeclareLanguageOption{hirimotu}{ho}{hmo}{}{}{PG}{Latn}

\@tracklang@add@icelandic
\TrackLangDeclareLanguageOption{icelandic}{is}{isl}{ice}{}{IS}{Latn}

\@tracklang@add@ido
\TrackLangDeclareLanguageOption{ido}{io}{ido}{}{}{Latn}

\@tracklang@add@igbo
\TrackLangDeclareLanguageOption{igbo}{ig}{ibo}{}{}{Latn}

\@tracklang@add@interlingua
\TrackLangDeclareLanguageOption{interlingua}{ia}{ina}{}{}{Latn}

\@tracklang@add@interlingue
\TrackLangDeclareLanguageOption{interlingue}{ie}{ile}{}{}{Latn}

\@tracklang@add@inuktitut
\TrackLangDeclareLanguageOption{inuktitut}{iu}{iku}{}{}{Cans}

\@tracklang@add@inupiaq
\TrackLangDeclareLanguageOption{inupiaq}{ik}{ipk}{}{}{Latn}

\@tracklang@add@irish
\TrackLangDeclareLanguageOption{irish}{ga}{gle}{}{}{Latn}

\@tracklang@add@italian
\TrackLangDeclareLanguageOption{italian}{it}{ita}{}{}{Latn}

\@tracklang@add@japanese
\TrackLangDeclareLanguageOption{japanese}{ja}{jpn}{}{}{Hani}

\@tracklang@add@javanese
\TrackLangDeclareLanguageOption{javanese}{jv}{jav}{}{}{Latn}

```

```

\@tracklang@add@kalaallisut
    \TrackLangDeclareLanguageOption{kalaallisut}{kl}{kal}{}{}{Latn}

\@tracklang@add@kannada
    \TrackLangDeclareLanguageOption{kannada}{kn}{kan}{}{}{IN}{Knda}

\@tracklang@add@kanuri
    \TrackLangDeclareLanguageOption{kanuri}{kr}{kau}{}{}{Latn}

\@tracklang@add@kashmiri No default script. Could be Arabic or Devanagari.
    \TrackLangDeclareLanguageOption{kashmiri}{ks}{kas}{}{}{IN}{}

\@tracklang@add@kazakh Default script varies according to region.
    \TrackLangDeclareLanguageOption{kazakh}{kk}{kaz}{}{}{}

\@tracklang@add@khmer
    \TrackLangDeclareLanguageOption{khmer}{km}{khm}{}{}{Khmr}

\@tracklang@add@kikuyu
    \TrackLangDeclareLanguageOption{kikuyu}{ki}{kik}{}{}{Latn}

\@tracklang@add@kinyarwanda
    \TrackLangDeclareLanguageOption{kinyarwanda}{rw}{kin}{}{}{Latn}

\@tracklang@add@kirundi
    \TrackLangDeclareLanguageOption{kirundi}{rn}{run}{}{}{Latn}

\@tracklang@add@komi
    \TrackLangDeclareLanguageOption{komi}{kv}{kom}{}{}{RU}{Cyr1}

\@tracklang@add@kongo
    \TrackLangDeclareLanguageOption{kongo}{kg}{kon}{}{}{Latn}

\@tracklang@add@korean
    \TrackLangDeclareLanguageOption{korean}{ko}{kor}{}{}{Hang}

\@tracklang@add@kurdish Script varies according to region.
    \TrackLangDeclareLanguageOption{kurdish}{ku}{kur}{}{}{}

\@tracklang@add@kwanyama
    \TrackLangDeclareLanguageOption{kwanyama}{kj}{kua}{}{}{Latn}

\@tracklang@add@kyrgyz
    \TrackLangDeclareLanguageOption{kyrgyz}{ky}{kir}{}{}{Cyr1}

\@tracklang@add@lao
    \TrackLangDeclareLanguageOption{lao}{lo}{lao}{}{}{Lao}

```

```

\@tracklang@add@latin
\TrackLangDeclareLanguageOption{latin}{la}{lat}{}{}{Latn}

\@tracklang@add@latvian
\TrackLangDeclareLanguageOption{latvian}{lv}{lav}{}{}{Latn}

\@tracklang@add@limburgish
\TrackLangDeclareLanguageOption{limburgish}{li}{lim}{}{}{Latn}

\@tracklang@add@lingala
\TrackLangDeclareLanguageOption{lingala}{ln}{lin}{}{}{Latn}

\@tracklang@add@lithuanian
\TrackLangDeclareLanguageOption{lithuanian}{lt}{lit}{}{}{Latn}

\@tracklang@add@lsorbian
\TrackLangDeclareLanguageOption{lsorbian}{}{dsb}{}{}{DE}{Latn}

\@tracklang@add@lubakatanga
\TrackLangDeclareLanguageOption{lubakatanga}{lu}{lub}{}{}{CD}{Latn}

\@tracklang@add@luxembourgish
\TrackLangDeclareLanguageOption{luxembourgish}{lb}{ltz}{}{}{Latn}

\@tracklang@add@macedonian
\TrackLangDeclareLanguageOption{macedonian}{mk}{mkd}{mac}{}{}{Cyr1}

\@tracklang@add@magyar
\TrackLangDeclareLanguageOption{magyar}{hu}{hun}{}{}{Latn}

\@tracklang@add@malagasy
\TrackLangDeclareLanguageOption{malagasy}{mg}{mlg}{}{}{Latn}

\@tracklang@add@malayalam
\TrackLangDeclareLanguageOption{malayalam}{ml}{mal}{}{}{IN}{Mlym}

\@tracklang@add@maltese
\TrackLangDeclareLanguageOption{maltese}{mt}{mlt}{}{}{Latn}

\@tracklang@add@manx
\TrackLangDeclareLanguageOption{manx}{gv}{glv}{}{}{IM}{Latn}

\@tracklang@add@maori
\TrackLangDeclareLanguageOption{maori}{mi}{mri}{mao}{}{NZ}{Latn}

\@tracklang@add@marathi
\TrackLangDeclareLanguageOption{marathi}{mr}{mar}{}{}{IN}{Deva}

```

```

\@tracklang@add@marshallese
    \TrackLangDeclareLanguageOption{marshallese}{mh}{mah}{}{}{MH}{Latn}

\@tracklang@add@mongolian
    \TrackLangDeclareLanguageOption{mongolian}{mn}{mon}{}{}{Mong}

\@tracklang@add@nauruan
    \TrackLangDeclareLanguageOption{nauruan}{na}{nau}{}{}{NR}{Latn}

\@tracklang@add@navajo
    \TrackLangDeclareLanguageOption{navajo}{nv}{nav}{}{}{US}{Latn}

\@tracklang@add@ndonga
    \TrackLangDeclareLanguageOption{ndonga}{ng}{ndo}{}{}{Latn}

\@tracklang@add@nepali
    \TrackLangDeclareLanguageOption{nepali}{ne}{nep}{}{}{Deva}

    \@tracklang@add@nko
    \TrackLangDeclareLanguageOption{nko}{}{nqo}{}{}{Nkoo}

acklang@add@northernndebele
    \TrackLangDeclareLanguageOption{northernndebele}{nd}{nde}{}{}{Latn}

\@tracklang@add@nynorsk
    \TrackLangDeclareLanguageOption{nynorsk}{nn}{nno}{}{}{NO}{Latn}

    \@tracklang@add@norsk
    \TrackLangDeclareLanguageOption{norsk}{no}{nor}{}{}{Latn}

@tracklang@add@northernsotho
    \TrackLangDeclareLanguageOption{northernsotho}{}{nso}{}{}{Latn}

    \@tracklang@add@nuosu
    \TrackLangDeclareLanguageOption{nuosu}{ii}{iii}{}{}{CN}{Yiii}

\@tracklang@add@occitan
    \TrackLangDeclareLanguageOption{occitan}{oc}{oci}{}{}{Latn}

\@tracklang@add@ojibwe
    \TrackLangDeclareLanguageOption{ojibwe}{oj}{oji}{}{}{Latn}

    \@tracklang@add@oromo
    \TrackLangDeclareLanguageOption{oromo}{om}{orm}{}{}{Latn}

    \@tracklang@add@oriya
    \TrackLangDeclareLanguageOption{oriya}{or}{ori}{}{}{Orya}

```



```

\@tracklang@add@ossetian
    \TrackLangDeclareLanguageOption{ossetian}{os}{oss}{}{}{}{Cyr1}

\@tracklang@add@pali
    \TrackLangDeclareLanguageOption{pali}{pi}{pli}{}{}{}{Brah}

\@tracklang@add@pashto
    \TrackLangDeclareLanguageOption{pashto}{ps}{pus}{}{}{}{Arab}

\@tracklang@add@piedmontese
    \TrackLangDeclareLanguageOption{piedmontese}{}{}{}{pms}{IT}{Latn}

\@tracklang@add@polish
    \TrackLangDeclareLanguageOption{polish}{pl}{pol}{}{}{}{Latn}

\@tracklang@add@portuges
    \TrackLangDeclareLanguageOption{portuges}{pt}{por}{}{}{}{Latn}

\@tracklang@add@quechua
    \TrackLangDeclareLanguageOption{quechua}{qu}{que}{}{}{}{Latn}

\@tracklang@add@romanian
    \TrackLangDeclareLanguageOption{romanian}{ro}{ron}{rum}{}{}{}{Latn}

\@tracklang@add@romansh
    \TrackLangDeclareLanguageOption{romansh}{rm}{roh}{}{}{}{CH}{Latn}

\@tracklang@add@russian
    \TrackLangDeclareLanguageOption{russian}{ru}{rus}{}{}{}{Cyr1}

\@tracklang@add@samin
    \TrackLangDeclareLanguageOption{samin}{se}{sme}{}{}{}{Latn}

\@tracklang@add@sanskrit
    \TrackLangDeclareLanguageOption{sanskrit}{sa}{san}{}{}{}{}

\@tracklang@add@samoan
    \TrackLangDeclareLanguageOption{samoan}{sm}{smo}{}{}{}{Latn}

\@tracklang@add@sango
    \TrackLangDeclareLanguageOption{sango}{sg}{sag}{}{}{}{Latn}

\@tracklang@add@sardinian
    \TrackLangDeclareLanguageOption{sardinian}{sc}{srd}{}{}{}{IT}{Latn}

\@tracklang@add@scottish Also spoken in Canada, so no region.
    \TrackLangDeclareLanguageOption{scottish}{gd}{gla}{}{}{}{Latn}

```

```

\@tracklang@add@serbian
\TrackLangDeclareLanguageOption{serbian}{sr}{srp}{}{}{Cyr1}

\@tracklang@add@shona
\TrackLangDeclareLanguageOption{shona}{sn}{sna}{}{}{Latn}

\@tracklang@add@sindhi
\TrackLangDeclareLanguageOption{sindhi}{sd}{snd}{}{}{Sind}

\@tracklang@add@sinhalese
\TrackLangDeclareLanguageOption{sinhalese}{si}{sin}{}{}{LK}{Sinh}

\@tracklang@add@slovak
\TrackLangDeclareLanguageOption{slovak}{sk}{slk}{slo}{}{}{Latn}

\@tracklang@add@slovene
\TrackLangDeclareLanguageOption{slovene}{sl}{slv}{}{}{Latn}

\@tracklang@add@somali
\TrackLangDeclareLanguageOption{somali}{so}{som}{}{}{Latn}

\@tracklang@add@southernndebele
\TrackLangDeclareLanguageOption{southernndebele}{nr}{nbl}{}{}{ZA}{Latn}

\@tracklang@add@southernsotho
\TrackLangDeclareLanguageOption{southernsotho}{st}{sot}{}{}{Latn}

\@tracklang@add@spanish
\TrackLangDeclareLanguageOption{spanish}{es}{spa}{}{}{Latn}

\@tracklang@add@sudanese
\TrackLangDeclareLanguageOption{sudanese}{su}{sun}{}{}{Sund}

\@tracklang@add@swahili
\TrackLangDeclareLanguageOption{swahili}{sw}{swa}{}{}{}

\@tracklang@add@swati
\TrackLangDeclareLanguageOption{swati}{ss}{ssw}{}{}{Latn}

\@tracklang@add@swedish
\TrackLangDeclareLanguageOption{swedish}{sv}{swe}{}{}{Latn}

\@tracklang@add@syriac
\TrackLangDeclareLanguageOption{syriac}{}{syr}{}{}{Syrc}

\@tracklang@add@tagalog
\TrackLangDeclareLanguageOption{tagalog}{tl}{tgl}{}{}{PH}{Latn}

```

```

\@tracklang@add@tahitian
    \TrackLangDeclareLanguageOption{tahitian}{ty}{tah}{}{}{PF}{Latn}

    \@tracklang@add@tai
    \TrackLangDeclareLanguageOption{tai}{}{tai}{}{}{}{}

\@tracklang@add@tajik
    \TrackLangDeclareLanguageOption{tajik}{tg}{tgk}{}{}{}{Cyr1}

\@tracklang@add@tamil
    \TrackLangDeclareLanguageOption{tamil}{ta}{tam}{}{}{}{Taml}

\@tracklang@add@tatar
    \TrackLangDeclareLanguageOption{tatar}{tt}{tat}{}{}{}{Cyr1}

\@tracklang@add@telugu
    \TrackLangDeclareLanguageOption{telugu}{te}{tel}{}{}{}{IN}{Telu}

    \@tracklang@add@thai
    \TrackLangDeclareLanguageOption{thai}{th}{tha}{}{}{}{TH}{Thai}

\@tracklang@add@tibetan
    \TrackLangDeclareLanguageOption{tibetan}{bo}{bod}{tib}{}{}{}{Tibt}

\@tracklang@add@tigrinya
    \TrackLangDeclareLanguageOption{tigrinya}{ti}{tir}{}{}{}{Ethi}

    \@tracklang@add@tonga
    \TrackLangDeclareLanguageOption{tonga}{to}{ton}{}{}{}{TO}{Latn}

\@tracklang@add@tsonga
    \TrackLangDeclareLanguageOption{tsonga}{ts}{tso}{}{}{}{Latn}

\@tracklang@add@tswana
    \TrackLangDeclareLanguageOption{tswana}{tn}{tsn}{}{}{}{Latn}

\@tracklang@add@turkish
    \TrackLangDeclareLanguageOption{turkish}{tr}{tur}{}{}{}{Latn}

\@tracklang@add@turkmen
    \TrackLangDeclareLanguageOption{turkmen}{tk}{tuk}{}{}{}{Latn}

    \@tracklang@add@twi
    \TrackLangDeclareLanguageOption{twi}{tw}{twi}{}{}{}{GH}{Latn}

\@tracklang@add@ukrainian
    \TrackLangDeclareLanguageOption{ukrainian}{uk}{ukr}{}{}{}{UA}{Cyr1}

```

\@tracklang@add@undetermined Undetermined language (ISO 636-2 code ‘und’) for unknown languages. There’s no ISO 639-1 language code for this language.
\TrackLangDeclareLanguageOption{undetermined}{und}{}{}{Latn}

\@tracklang@add@urdu
\TrackLangDeclareLanguageOption{urdu}{ur}{urd}{}{}{Arab}

\@tracklang@add@usorbian
\TrackLangDeclareLanguageOption{usorbian}{hsb}{}{}{DE}{Latn}

\@tracklang@add@uyghur
\TrackLangDeclareLanguageOption{uyghur}{ug}{uig}{}{}{CN}{Arab}

\@tracklang@add@uzbek
\TrackLangDeclareLanguageOption{uzbek}{uz}{uzb}{}{}{Latn}

\@tracklang@add@venda
\TrackLangDeclareLanguageOption{venda}{ve}{ven}{}{}{ZA}{Latn}

\@tracklang@add@vietnamese
\TrackLangDeclareLanguageOption{vietnamese}{vi}{vie}{}{}{Latn}

\@tracklang@add@volapuk
\TrackLangDeclareLanguageOption{volapuk}{vo}{vol}{}{}{Latn}

\@tracklang@add@walloon No country code as Walloon is spoken in multiple regions (Wallonia in Belgium, some villages in Northern France and north-east of Wisconsin.) Not the same as Belgian French.
\TrackLangDeclareLanguageOption{walloon}{wa}{wln}{}{}{Latn}

\@tracklang@add@welsh Also spoken in Argentina, so no region.
\TrackLangDeclareLanguageOption{welsh}{cy}{cym}{wel}{}{}{Latn}

\@tracklang@add@westernfrisian
\TrackLangDeclareLanguageOption{westernfrisian}{fy}{fry}{}{}{NL}{Latn}

\@tracklang@add@wolof
\TrackLangDeclareLanguageOption{wolof}{wo}{wol}{}{}{Latn}

\@tracklang@add@xhosa
\TrackLangDeclareLanguageOption{xhosa}{xh}{xho}{}{}{Latn}

\@tracklang@add@yiddish
\TrackLangDeclareLanguageOption{yiddish}{yi}{yid}{}{}{Hebr}

\@tracklang@add@yoruba
\TrackLangDeclareLanguageOption{yoruba}{yo}{yor}{}{}{Latn}

```
\@tracklang@add@zhuang
```

```
\TrackLangDeclareLanguageOption{zhuang}{za}{zha}{-}{-}{CN}{Hani}
```

```
\@tracklang@add@zulu
```

```
\TrackLangDeclareLanguageOption{zulu}{zu}{zul}{-}{-}{Latn}
```

4.6 Predefined Dialects

Provide some predefined dialects.

```
\TrackLangProvidePredefinedDialect{<dialect>}{<root
language>}{<3166-1
code>}{<modifier>}{<variant>}{<map>}{<script>}
```

```
\TrackLangProvidePredefinedDialect
```

This defines a predefined dialect label that can be used by `\TrackPredefinedDialect`. The arguments must be expanded before use. The final argument `<map>` is the mapping from `<dialect>` to the closest babel dialect label.

```
\def\TrackLangProvidePredefinedDialect#1#2#3#4#5#6#7{
  \ifx\relax#3\relax
```

No region.

```
  \ifx\relax#4\relax
```

No modifier.

```
  \ifx\relax#5\relax
```

No variant.

```
  \@tracklang@namedef{@tracklang@add@#1}{%
    \AddTrackedDialect{#1}{#2}%
    \AddTrackedLanguageIsoCodes{#2}%
```

Make it easier for the parser to pick up the dialect label. Note that this should be the same as `\TrackLangLastTrackedDialect` but the parser references `\@tracklang@dialect`.

```
  \def\@tracklang@dialect{#1}%
  }%
  \else
```

Has variant but no modifier.

```
  \@tracklang@namedef{@tracklang@add@#1}{%
    \AddTrackedDialect{#1}{#2}%
    \AddTrackedLanguageIsoCodes{#2}%
    \SetTrackedDialectVariant{#1}{#5}%
    \def\@tracklang@dialect{#1}%
  }%
```

```
  \fi
  \else
```

Has modifier.

```
  \ifx\relax#5\relax
```

No variant.

```
\@tracklang@namedef{@tracklang@add@#1}{%  
  \AddTrackedDialect{#1}{#2}%  
  \AddTrackedLanguageIsoCodes{#2}%  
  \SetTrackedDialectModifier{#1}{#4}%  
  \def\@tracklang@dialect{#1}%  
}%  
\else
```

Variant and modifier.

```
\@tracklang@namedef{@tracklang@add@#1}{%  
  \AddTrackedDialect{#1}{#2}%  
  \AddTrackedLanguageIsoCodes{#2}%  
  \SetTrackedDialectModifier{#1}{#4}%  
  \SetTrackedDialectVariant{#1}{#5}%  
  \def\@tracklang@dialect{#1}%  
}%  
\fi  
\fi  
\else
```

Has a region.

```
\ifx\relax#4\relax
```

No modifier.

```
\ifx\relax#5\relax
```

No variant.

```
\@tracklang@namedef{@tracklang@add@#1}{%  
  \AddTrackedDialect{#1}{#2}%  
  \AddTrackedLanguageIsoCodes{#2}%  
  \AddTrackedIsoLanguage{3166-1}{#3}{#1}%  
  \def\@tracklang@dialect{#1}%  
}%  
\else
```

Variant no modifier.

```
\@tracklang@namedef{@tracklang@add@#1}{%  
  \AddTrackedDialect{#1}{#2}%  
  \AddTrackedLanguageIsoCodes{#2}%  
  \AddTrackedIsoLanguage{3166-1}{#3}{#1}%  
  \SetTrackedDialectVariant{#1}{#5}%  
  \def\@tracklang@dialect{#1}%  
}%  
\fi  
\else
```

Has modifier.

```
\ifx\relax#5\relax
```

No variant.

```
\@tracklang@namedef{@tracklang@add@#1}{%
```

```

\AddTrackedDialect{#1}{#2}%
\AddTrackedLanguageIsoCodes{#2}%
\AddTrackedIsoLanguage{3166-1}{#3}{#1}%
\SetTrackedDialectModifier{#1}{#4}%
\def\@tracklang@dialect{#1}%
}%
\else

```

Variant and modifier.

```

\@tracklang@namedef{\@tracklang@add@#1}{%
\AddTrackedDialect{#1}{#2}%
\AddTrackedLanguageIsoCodes{#2}%
\AddTrackedIsoLanguage{3166-1}{#3}{#1}%
\SetTrackedDialectModifier{#1}{#4}%
\SetTrackedDialectVariant{#1}{#5}%
\def\@tracklang@dialect{#1}%
}%
\fi
\fi
\fi

```

Add the mapping if provided.

```

\ifx\relax#6\relax
\else
\expandafter
\let\expandafter\@tracklang@tmp\csname @tracklang@add@#1\endcsname
\expandafter\def\csname @tracklang@add@#1\expandafter\endcsname
\expandafter{\@tracklang@tmp\SetTrackedDialectLabelMap{#1}{#6}}%
\fi

```

Add the script if provided.

```

\ifx\relax#7\relax
\else
\expandafter
\let\expandafter\@tracklang@tmp\csname @tracklang@add@#1\endcsname
\expandafter\def\csname @tracklang@add@#1\expandafter\endcsname
\expandafter{\@tracklang@tmp\SetTrackedDialectScript{#1}{#7}}%
\fi
}

```

```

\TrackLangDeclareDialectOption{<dialect>}{<root
language>}{<3166-1
code>}{<modifier>}{<variant>}{<map>}{<script>}

```

\TrackLangDeclareDialectOption

The option name is the same as the dialect name. The arguments must be expanded before use. The final argument *<map>* is the mapping from *<dialect>* to the closest babel dialect label. May be empty if no relevant mapping.

```

\def\TrackLangDeclareDialectOption#1#2#3#4#5#6#7{%

```



```

\tracklang@add@istriacountyitalian
\TrackLangDeclareDialectOption{istriacountyitalian}{italian}{HR}{}{}{}

\@tracklang@add@netherlands
\TrackLangDeclareDialectOption{netherlands}{dutch}{NL}{}{}{}

\@tracklang@add@persian
\TrackLangDeclareDialectOption{persian}{farsi}{}{}{}{}

\@tracklang@add@flemish
\TrackLangDeclareDialectOption{flemish}{dutch}{BE}{}{}{}{}

\@tracklang@add@français
\TrackLangDeclareDialectOption{français}{french}{}{}{}{}{}

\@tracklang@add@frenchb
\TrackLangDeclareDialectOption{frenchb}{french}{}{}{}{}{}

\@tracklang@add@france
\TrackLangDeclareDialectOption{france}{french}{FR}{}{}{}{}

\@tracklang@add@belgique
\TrackLangDeclareDialectOption{belgique}{french}{BE}{}{}{}{}

\@tracklang@add@belgiangerman
\TrackLangDeclareDialectOption{belgiangerman}{german}{BE}{}{}{}{}

\@tracklang@add@nbelgiangerman
\TrackLangDeclareDialectOption{nbelgiangerman}{german}{BE}{new}{1996}{ngerman}{}

\@tracklang@add@friulian
\TrackLangDeclareDialectOption{friulian}{friulan}{IT}{}{}{}{}

\@tracklang@add@friulano
\TrackLangDeclareDialectOption{friulano}{friulan}{IT}{}{}{}{}

\@tracklang@add@furlan Added since it's a babel alias for friulan.
\TrackLangDeclareDialectOption{furlan}{friulan}{IT}{}{}{}{}

\@tracklang@add@kurmanji Added since it's a babel label.
\TrackLangDeclareDialectOption{kurmanji}{kurdish}{}{}{}{}{}

\@tracklang@add@galicien
\TrackLangDeclareDialectOption{galicien}{galician}{}{}{}{}{}

\@tracklang@add@deutsch
\TrackLangDeclareDialectOption{deutsch}{german}{}{}{}{}{}

```

```

\@tracklang@add@ngerman
    \TrackLangDeclareDialectOption{ngerman}{german}{new}{1996}{}{}

\@tracklang@add@ngermanb
    \TrackLangDeclareDialectOption{ngermanb}{german}{new}{1996}{ngerman}{}

\@tracklang@add@germanb
    \TrackLangDeclareDialectOption{germanb}{german}{}{}{}{}

\@tracklang@add@ngermanDE
    \TrackLangDeclareDialectOption{ngermanDE}{german}{DE}{new}{1996}{ngerman}{}

\@tracklang@add@germanDE
    \TrackLangDeclareDialectOption{germanDE}{german}{DE}{}{}{}{}

\@tracklang@add@hungarian
    \TrackLangDeclareDialectOption{hungarian}{magyar}{HU}{}{}{}{}

    \@tracklang@add@indon
    \TrackLangDeclareDialectOption{indon}{bahasai}{IN}{}{}{}{}

\@tracklang@add@indonesian
    \TrackLangDeclareDialectOption{indonesian}{bahasai}{IN}{}{}{}{}

\@tracklang@add@gaeilge
    \TrackLangDeclareDialectOption{gaeilge}{irish}{}{}{}{}{}

\@tracklang@add@IEirish Irish spoken in Republic of Ireland
    \TrackLangDeclareDialectOption{IEirish}{irish}{IE}{}{}{}{}

\@tracklang@add@GBirish Irish spoken in the United Kingdom of Great Britain and Northern Ireland
    \TrackLangDeclareDialectOption{GBirish}{irish}{GB}{}{}{}{}

\@tracklang@add@IEenglish English spoken in the Republic of Ireland.
    \TrackLangDeclareDialectOption{IEenglish}{english}{IE}{}{}{british}{}

    \@tracklang@add@italy
    \TrackLangDeclareDialectOption{italy}{italian}{IT}{}{}{}{}

\@tracklang@add@vatican
    \TrackLangDeclareDialectOption{vatican}{italian}{VA}{}{}{}{}

\@tracklang@add@sanmarino
    \TrackLangDeclareDialectOption{sanmarino}{italian}{SM}{}{}{}{}

ng@add@sloveneistriaitalian
    \TrackLangDeclareDialectOption{sloveneistriaitalian}{italian}{SI}{}{}{}{}

```

`\tracklang@add@jerseyenglish` Allow it to hook to pick up `\captionsbritish` as well as `\captionsenglish` since the date format closely matches `british`.
`\TrackLangDeclareDialectOption{jerseyenglish}{english}{JE}{}{}{british}{}`

`\tracklang@add@jerseyfrench`
`\TrackLangDeclareDialectOption{jerseyfrench}{french}{JE}{}{}{}{}`

`\tracklang@add@guernseyenglish` Allow it to hook to pick up `\captionsbritish` as well as `\captionsenglish` since the date format closely matches `british`.
`\TrackLangDeclareDialectOption{guernseyenglish}{english}{GG}{}{}{british}{}`

`\tracklang@add@guernseyfrench`
`\TrackLangDeclareDialectOption{guernseyfrench}{french}{GG}{}{}{}{}`

`\@tracklang@add@latein`
`\TrackLangDeclareDialectOption{latein}{latin}{}{}{}{}{}{}`

`\@tracklang@add@lowersorbian`
`\TrackLangDeclareDialectOption{lowersorbian}{lsorbian}{DE}{}{}{}{}{}{}`

`\@tracklang@add@malay`
`\TrackLangDeclareDialectOption{malay}{bahasam}{MY}{}{}{}{}{}{}`

`\@tracklang@add@meyalu`
`\TrackLangDeclareDialectOption{meyalu}{bahasam}{MY}{}{}{}{}{}{}`

`\@tracklang@add@maltamaltese`
`\TrackLangDeclareDialectOption{maltamaltese}{maltese}{MT}{}{}{}{}{}{}`

`\@tracklang@add@maltaenglish` Allow it to hook to pick up `\captionsbritish` as well as `\captionsenglish` since the date format closely matches `british`.
`\TrackLangDeclareDialectOption{maltaenglish}{english}{MT}{}{}{}{british}{}`

`\@tracklang@add@newzealand`
`\TrackLangDeclareDialectOption{newzealand}{english}{NZ}{}{}{}{}{}{}`

`\@tracklang@add@isleofmanenglish` Allow it to hook to pick up `\captionsbritish` as well as `\captionsenglish` since the date format closely matches `british`.
`\TrackLangDeclareDialectOption{isleofmanenglish}{english}{IM}{}{}{}{british}{}`

`\@tracklang@add@norwegian`
`\TrackLangDeclareDialectOption{norwegian}{norsk}{NO}{}{}{}{}{}{}`

`\@tracklang@add@piemonteis`
`\TrackLangDeclareDialectOption{piemonteis}{piedmontese}{IT}{}{}{}{}{}{}`

`\@tracklang@add@polutonikogreek`
`\TrackLangDeclareDialectOption{polutonikogreek}{greek}{}{polyton}{}{}{}{}{}{}`

```

\@tracklang@add@polutoniko
\TrackLangDeclareDialectOption{polutoniko}{greek}{polyton}{}{}{}

\@tracklang@add@portuguese
\TrackLangDeclareDialectOption{portuguese}{portuges}{}{}{}{}

\@tracklang@add@portugal
\TrackLangDeclareDialectOption{portugal}{portuges}{PT}{}{}{}

\@tracklang@add@romansch
\TrackLangDeclareDialectOption{romansch}{romansh}{}{}{}{}

\@tracklang@add@rumantsch
\TrackLangDeclareDialectOption{rumantsch}{romansh}{}{}{}{}

\@tracklang@add@romanche
\TrackLangDeclareDialectOption{romanche}{romansh}{}{}{}{}

\@tracklang@add@russianb
\TrackLangDeclareDialectOption{russianb}{russian}{}{}{}{}

\@tracklang@add@gaelic
\TrackLangDeclareDialectOption{gaelic}{scottish}{}{}{}{}

\@tracklang@add@GBscottish
\TrackLangDeclareDialectOption{GBscottish}{scottish}{GB}{}{}{}

\@tracklang@add@serbianc
\TrackLangDeclareDialectOption{serbianc}{serbian}{}{}{}{Cyr1}

\@tracklang@add@serbianl
\TrackLangDeclareDialectOption{serbianl}{serbian}{}{}{}{Latn}

\@tracklang@add@slovenian
\TrackLangDeclareDialectOption{slovenian}{slovene}{}{}{}{}

\@tracklang@add@slovenia
\TrackLangDeclareDialectOption{slovenia}{slovene}{SI}{}{}{slovenian}{}

\@add@sloveneistriasslovenian
\TrackLangDeclareDialectOption{sloveneistriasslovenian}{slovene}{SI}{}{}{slovenian}{}

\@tracklang@add@spainspanish
\TrackLangDeclareDialectOption{spainspanish}{spanish}{ES}{}{}{}

\@tracklang@add@argentinespanish
\TrackLangDeclareDialectOption{argentinespanish}{spanish}{AR}{}{}{}

```

tracklang@add@bolivianspanish
 \TrackLangDeclareDialectOption{bolivianspanish}{spanish}{BO}{}{}{}{}

tracklang@add@chilianspanish
 \TrackLangDeclareDialectOption{chilianspanish}{spanish}{CL}{}{}{}{}

tracklang@add@columbianspanish
 \TrackLangDeclareDialectOption{columbianspanish}{spanish}{CO}{}{}{}{}

tracklang@add@costaricanspanish
 \TrackLangDeclareDialectOption{costaricanspanish}{spanish}{CR}{}{}{}{}

@tracklang@add@cubanspanish
 \TrackLangDeclareDialectOption{cubanspanish}{spanish}{CU}{}{}{}{}

tracklang@add@dominicanspanish
 \TrackLangDeclareDialectOption{dominicanspanish}{spanish}{DO}{}{}{}{}

tracklang@add@ecudorianspanish
 \TrackLangDeclareDialectOption{ecudorianspanish}{spanish}{EC}{}{}{}{}

tracklang@add@elsalvadorspanish
 \TrackLangDeclareDialectOption{elsalvadorspanish}{spanish}{SV}{}{}{}{}

tracklang@add@guatemalanspanish
 \TrackLangDeclareDialectOption{guatemalanspanish}{spanish}{GT}{}{}{}{}

tracklang@add@honduranspanish
 \TrackLangDeclareDialectOption{honduranspanish}{spanish}{HN}{}{}{}{}

tracklang@add@mexicanspanish
 \TrackLangDeclareDialectOption{mexicanspanish}{spanish}{MX}{}{}{}{}

tracklang@add@nicaraguanspanish
 \TrackLangDeclareDialectOption{nicaraguanspanish}{spanish}{NI}{}{}{}{}

@tracklang@add@panamaspanish
 \TrackLangDeclareDialectOption{panamaspanish}{spanish}{PA}{}{}{}{}

tracklang@add@paraguayspanish
 \TrackLangDeclareDialectOption{paraguayspanish}{spanish}{PY}{}{}{}{}

tracklang@add@peruvianspanish
 \TrackLangDeclareDialectOption{peruvianspanish}{spanish}{PE}{}{}{}{}

tracklang@add@puertoricospansish
 \TrackLangDeclareDialectOption{puertoricospansish}{spanish}{PR}{}{}{}{}

```

\tracklang@add@uruguayspanish
\TrackLangDeclareDialectOption{uruguayspanish}{spanish}{UY}{}{}{}

\tracklang@add@venezuelanspanish
\TrackLangDeclareDialectOption{venezuelanspanish}{spanish}{VE}{}{}{}

\@tracklang@add@swissgerman
\TrackLangDeclareDialectOption{swissgerman}{german}{CH}{}{}{}

\@tracklang@add@nswissgerman
\TrackLangDeclareDialectOption{nswissgerman}{german}{CH}{new}{1996}{ngerman}{}

\@tracklang@add@swissfrench
\TrackLangDeclareDialectOption{swissfrench}{french}{CH}{}{}{}

\@tracklang@add@swissitalian
\TrackLangDeclareDialectOption{swissitalian}{italian}{CH}{}{}{}

\@tracklang@add@swissromansh
\TrackLangDeclareDialectOption{swissromansh}{romansh}{CH}{}{}{}

\@tracklang@add@UKenglish
\TrackLangDeclareDialectOption{UKenglish}{english}{GB}{}{}{}

\@tracklang@add@ukraineб
\TrackLangDeclareDialectOption{ukraineб}{ukrainian}{UA}{}{}{}

\@tracklang@add@ukraine
\TrackLangDeclareDialectOption{ukraine}{ukrainian}{UA}{}{}{}

\@tracklang@add@uppersorbian
\TrackLangDeclareDialectOption{uppersorbian}{usorbian}{DE}{}{}{}

\@tracklang@add@USenglish
\TrackLangDeclareDialectOption{USenglish}{english}{US}{}{}{}

\@tracklang@add@valencian
\TrackLangDeclareDialectOption{valencian}{catalan}{}{}{}{}

\@tracklang@add@valencien
\TrackLangDeclareDialectOption{valencien}{catalan}{}{}{}{}

\@tracklang@add@cymraeg
\TrackLangDeclareDialectOption{cymraeg}{welsh}{}{}{}{}

\@tracklang@add@GBwelsh
\TrackLangDeclareDialectOption{GBwelsh}{welsh}{GB}{}{}{}

\@tracklang@add@nil Add babel's nil as a dialect of undetermined language.
\TrackLangDeclareDialectOption{nil}{undetermined}{}{}{}{}

```

4.7 Dialect Option Synonyms

Add some dialect synonyms:

```
\LetTrackLangSynonym
\def\LetTrackLangSynonym#1#2{%
  \expandafter\let\csname @tracklang@add@#1\expandafter\endcsname
  \csname @tracklang@add@#2\endcsname
}

\LetTrackLangOption
\def\LetTrackLangOption#1#2{%
  \LetTrackLangSynonym{#1}{#2}%
  \@tracklang@declareoption{#1}%
}

\@tracklang@add@en-US
\LetTrackLangOption{en-US}{american}

\@tracklang@add@en-GB
\LetTrackLangOption{en-GB}{british}

\@tracklang@add@en-AU
\LetTrackLangOption{en-AU}{australian}

\@tracklang@add@en-NZ
\LetTrackLangOption{en-NZ}{newzealand}

\@tracklang@add@en-CA
\LetTrackLangOption{en-CA}{canadian}

\@tracklang@add@fr-CA
\LetTrackLangOption{fr-CA}{canadien}

\@tracklang@add@fr-BE
\LetTrackLangOption{fr-BE}{belgique}

\@tracklang@add@pt-BR
\LetTrackLangOption{pt-BR}{brazilian}

\@tracklang@add@it-HR
\LetTrackLangOption{it-HR}{istriacountyitalian}

\@tracklang@add@nl-BE
\LetTrackLangOption{nl-BE}{flemish}

\@tracklang@add@fr-FR
\LetTrackLangOption{fr-FR}{france}
```

\@tracklang@add@de-DE
\LetTrackLangOption{de-DE}{germanDE}

\@tracklang@add@de-BE
\LetTrackLangOption{de-BE}{belgiangerman}

\@tracklang@add@en-GG
\LetTrackLangOption{en-GG}{guernseyenglish}

\@tracklang@add@fr-GG
\LetTrackLangOption{fr-GG}{guernseyfrench}

\@tracklang@add@it-IT
\LetTrackLangOption{it-IT}{italy}

\@tracklang@add@mt-MT
\LetTrackLangOption{mt-MT}{maltamaltese}

\@tracklang@add@en-MT
\LetTrackLangOption{en-MT}{maltaenglish}

\@tracklang@add@en-IM
\LetTrackLangOption{en-IM}{isleofmanenglish}

\@tracklang@add@en-JE
\LetTrackLangOption{en-JE}{jerseyenglish}

\@tracklang@add@fr-JE
\LetTrackLangOption{fr-JE}{jerseyfrench}

\@tracklang@add@nl-NL
\LetTrackLangOption{nl-NL}{netherlands}

\@tracklang@add@pt-PT
\LetTrackLangOption{pt-PT}{portugal}

\@tracklang@add@it-SM
\LetTrackLangOption{it-SM}{sanmarino}

\@tracklang@add@sl-SI
\LetTrackLangOption{sl-SI}{slovenia}

\@tracklang@add@it-SI
\LetTrackLangOption{it-SI}{sloveneistriaitalian}

\@tracklang@add@es-ES
\LetTrackLangOption{es-ES}{spainspanish}

\@tracklang@add@es-AR
\LetTrackLangOption{es-AR}{argentinaspanish}

\@tracklang@add@es-BO
\LetTrackLangOption{es-BO}{boliviaspanish}

\@tracklang@add@es-CL
\LetTrackLangOption{es-CL}{chilespanish}

\@tracklang@add@es-CO
\LetTrackLangOption{es-CO}{colombiaspanish}

\@tracklang@add@es-CR
\LetTrackLangOption{es-CR}{costaricaspanish}

\@tracklang@add@es-CU
\LetTrackLangOption{es-CU}{cubaspanish}

\@tracklang@add@es-DO
\LetTrackLangOption{es-DO}{dominicaspanish}

\@tracklang@add@es-EC
\LetTrackLangOption{es-EC}{ecuatoriaspanish}

\@tracklang@add@es-SV
\LetTrackLangOption{es-SV}{el salvadorspanish}

\@tracklang@add@es-GT
\LetTrackLangOption{es-GT}{guatemalaspanish}

\@tracklang@add@es-HN
\LetTrackLangOption{es-HN}{hondurasspanish}

\@tracklang@add@es-MX
\LetTrackLangOption{es-MX}{mexicospanish}

\@tracklang@add@es-NI
\LetTrackLangOption{es-NI}{nicaraguaspanish}

\@tracklang@add@es-PA
\LetTrackLangOption{es-PA}{panamaspanish}

\@tracklang@add@es-PY
\LetTrackLangOption{es-PY}{paraguayspanish}

\@tracklang@add@es-PE
\LetTrackLangOption{es-PE}{peruspanish}

\@tracklang@add@es-PR
\LetTrackLangOption{es-PR}{puertoricospanish}

\@tracklang@add@es-UY
\LetTrackLangOption{es-UY}{uruguayspanish}

\@tracklang@add@es-VE
\LetTrackLangOption{es-VE}{venezuelanspanish}

\@tracklang@add@de-CH
\LetTrackLangOption{de-CH}{swissgerman}

\@tracklang@add@fr-CH
\LetTrackLangOption{fr-CH}{swissfrench}

\@tracklang@add@it-CH
\LetTrackLangOption{it-CH}{swissitalian}

\@tracklang@add@rm-CH
\LetTrackLangOption{rm-CH}{swissromansh}

\@tracklang@add@it-VA
\LetTrackLangOption{it-VA}{vatican}

\@tracklang@add@ga-IE Irish Gaelic in Republic of Ireland.
\LetTrackLangOption{ga-IE}{IEIrish}

\@tracklang@add@ga-GB Irish Gaelic in Northern Ireland.
\LetTrackLangOption{ga-GB}{GBIrish}

\@tracklang@add@en-IE English spoken in Republic of Ireland.
\LetTrackLangOption{en-IE}{IEEnglish}

\@tracklang@add@de-AT-1996
\LetTrackLangOption{de-AT-1996}{naustrian}

\@tracklang@add@de-AT
\LetTrackLangOption{de-AT}{austrian}

\@tracklang@add@id-IN
\LetTrackLangOption{id-IN}{bahasa}

\@tracklang@add@ms-MY
\LetTrackLangOption{ms-MY}{malay}

\@tracklang@add@hr-HR
\LetTrackLangOption{hr-HR}{croatia}

`\@tracklang@add@de-DE-1996`

```
\LetTrackLangOption{de-DE-1996}{ngermanDE}
```

`\@tracklang@add@de-CH-1996`

```
\LetTrackLangOption{de-CH-1996}{nswissgerman}
```

`\@tracklang@add@hu-HU`

```
\LetTrackLangOption{hu-HU}{hungarian}
```

`\@tracklang@add@gd-GB`

```
\LetTrackLangOption{gd-GB}{GBscottish}
```

`\@tracklang@add@cy-GB`

```
\LetTrackLangOption{cy-GB}{GBwelsh}
```

4.8 Conditionals and Loops

```
\IfTrackedLanguage{<language>}{<true part>}{<>false  
part>}
```

`\IfTrackedLanguage`

```
\long\def\IfTrackedLanguage#1#2#3{%
```

First find out if the language name is empty.

```
\edef\@tracklang@element{#1}%  
\ifx\@tracklang@element\empty
```

Language is empty, so do false part.

```
#3%  
\else  
\expandafter\@tracklang@ifinlist\expandafter{\@tracklang@element}%  
\@tracklang@languages  
{%
```

In list, so do true part.

```
#2%  
}%  
{%
```

Not in list, so do false part.

```
#3%  
}%  
\fi  
}
```

```
\IfTrackedDialect{<dialect>}{<true part>}{<>false  
part>}
```

`\IfTrackedDialect`

```
\long\def\IfTrackedDialect#1#2#3{%
  \@tracklang@ifundef{\@tracklang@fromdialect@#1}{#3}{#2}%
}
```

```
\IfTrackedIsoCode{<code type>}{<code>}{<true part>}{<>false
part>}
```

\IfTrackedIsoCode

```
\long\def\IfTrackedIsoCode#1#2#3#4{%
  \@tracklang@ifundef{\@tracklang@#1@isotolang@#2}{#4}{#3}%
}
```

```
\IfTrackedLanguageHasIsoCode{<code type>}{<language>}{<true
part>}{<>false
part>}
```

\IfTrackedLanguageHasIsoCode

```
\long\def\IfTrackedLanguageHasIsoCode#1#2#3#4{%
  \@tracklang@ifundef{\@tracklang@#1@isofromlang@#2}{#4}{#3}%
}
```

```
\ForEachTrackedLanguage{<cs>}{<body>}
```

\ForEachTrackedLanguage

Iterates through the list of tracked languages. On each iteration *<cs>* is set to the language tag and *<body>* is performed.

```
\long\def\ForEachTrackedLanguage#1#2{%
  \@tracklang@for#1:=\@tracklang@languages\do{#2}%
}
```

```
\ForEachTrackedDialect{<cs>}{<body>}
```

\ForEachTrackedDialect

Iterates through the list of tracked dialects. On each iteration *<cs>* is set to the dialect tag and *<body>* is performed.

```
\long\def\ForEachTrackedDialect#1#2{%
  \@tracklang@for#1:=\@tracklang@dialects\do{#2}%
}
```

\AnyTrackedLanguages

```
\long\def\AnyTrackedLanguages#1#2{%
  \ifx\@tracklang@languages\empty
  #2%
  \else
  #1%
  \fi
}
```

```

\IfTrackedLanguageFileExists{<dialect>}{<prefix>}{<suffix>}
  {<true
  part>}{<false part>}

```

\IfTrackedLanguageFileExists

Determines if the file $\langle prefix \rangle \langle tag \rangle \langle suffix \rangle$ exists, where $\langle tag \rangle$ is an ISO code or ISO codes or label identifying the language. If $\langle dialect \rangle$ hasn't been identified as a tracked dialect, this just does $\langle false part \rangle$, otherwise this tries various different combinations for $\langle tag \rangle$. If the file $\langle prefix \rangle \langle tag \rangle \langle suffix \rangle$ exists, $\backslash\text{CurrentTrackedTag}$ is set to $\langle tag \rangle$ and $\langle true part \rangle$ is performed, otherwise $\langle false part \rangle$ is performed. The order of priority has changed with version 1.4 and now includes a check for variations that include the script. If the original ordering is specifically required, the old behaviour can be obtained with $\backslash\text{IfTrackedLanguageFileExists@orig}$.

```

\long\def\IfTrackedLanguageFileExists#1#2#3#4#5{%
  \@tracklang@verbose{Finding file for dialect '#1'}%

```

Initialise.

```

  \def\CurrentTrackedTag{}%

```

Select this dialect.

```

  \SetCurrentTrackedDialect{#1}%
  \IfTrackedDialect{#1}%
  {%

```

Save the three types of language codes to for reference.

```

  \edef\CurrentTrackedIsoCodeI{\TrackedIsoCodeFromLanguage
    {639-1}{\CurrentTrackedLanguage}}%
  \edef\CurrentTrackedIsoCodeII{\TrackedIsoCodeFromLanguage
    {639-2}{\CurrentTrackedLanguage}}%
  \edef\CurrentTrackedIsoCodeIII{\TrackedIsoCodeFromLanguage
    {639-3}{\CurrentTrackedLanguage}}%

```

Earlier versions of this had too many nested conditionals, which was confusing and hard to follow. This is a rewrite that removes the nesting and adds extra checks for dialect scripts.

```

  \@tracklang@test@if@file@exists@for@tag{#1}{#2}{#3}%
  \@tracklang@if@file@exists{#4}{#5}%
  }%
  {#5}% unknown dialect
}

```

ng@test@if@file@exists@noop

```

\def\@tracklang@test@if@file@exists@noop#1#2#3{}

```

test@if@file@exists@for@tag

```

\def\@tracklang@test@if@file@exists@for@tag#1#2#3{%
  \let\CurrentTrackedTag\CurrentTrackedLanguageTag
  \@tracklang@verbose{Testing tag '\CurrentTrackedTag'}%
  \@tracklang@IfFileExists{#2\CurrentTrackedTag#3}%
}

```

```

    {%
      \let\@tracklang@if@file@exists\@tracklang@firstoftwo
      \let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@noop
    }%
    {%
      \let\@tracklang@if@file@exists\@tracklang@secondoftwo
      \let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@for@dialect
    }%
    \@tracklang@test@if@file@exists@next{#1}{#2}{#3}%
  }
}

\@if@file@exists@for@dialect
\def\@tracklang@test@if@file@exists@for@dialect#1#2#3{%
  \edef\CurrentTrackedTag{#1}%
  \@tracklang@verbose{Testing tag '\CurrentTrackedTag'}%
  \@tracklang@IfFileExists{#2\CurrentTrackedTag#3}%
  {%
    \let\@tracklang@if@file@exists\@tracklang@firstoftwo
    \let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@noop
  }%
  {%
    \IfTrackedLanguageHasIsoCode{639-1}{\CurrentTrackedLanguage}%
    {%
      \let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@for@langIscriptregion
    }%
    {%
      \IfTrackedLanguageHasIsoCode{639-2}{\CurrentTrackedLanguage}%
      {%
        \let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@for@langIIscriptregion
      }%
      {%
        \IfTrackedLanguageHasIsoCode{639-3}{\CurrentTrackedLanguage}%
        {%
          \let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@for@langIIIscriptregion
        }%
        {%
          \let\CurrentTrackedIsoCode\empty
          \let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@for@scriptregion
        }%
      }%
    }%
  }%
  \@tracklang@test@if@file@exists@next{#1}{#2}{#3}%
}

\@if@file@exists@for@langIscriptregion Test <639-1>-<sublang>-<script>-<region> combination.
\def\@tracklang@test@if@file@exists@for@langIscriptregion#1#2#3{%
  \let\CurrentTrackedIsoCode\CurrentTrackedIsoCodeI
  \let\CurrentTrackedTag\CurrentTrackedIsoCode
  \ifx\CurrentTrackedDialectSubLang\empty

```

```

\else
  \edef\CurrentTrackedTag{\CurrentTrackedTag-\CurrentTrackedDialectSubLang}%
\fi
\ifx\CurrentTrackedDialectScript\empty
\else
  \edef\CurrentTrackedTag{\CurrentTrackedTag-\CurrentTrackedDialectScript}%
\fi
\ifx\CurrentTrackedRegion\empty
\else
  \edef\CurrentTrackedTag{\CurrentTrackedTag-\CurrentTrackedRegion}%
\fi
\@tracklang@verbose{Testing tag '\CurrentTrackedTag'}%
\@tracklang@IfFileExists{#2\CurrentTrackedTag#3}%
{%
  \let\@tracklang@if@file@exists\@tracklang@firstoftwo
  \let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@noop
}%
{%
  \ifx\CurrentTrackedRegion\empty
    \ifx\CurrentTrackedDialectScript\empty

```

No script or region set. If there's a sub-language code then try again without it.

```

\ifx\CurrentTrackedDialectSubLang\empty
  \let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@for@langII
\else
  \let\CurrentTrackedTag\CurrentTrackedIsoCode
  \@tracklang@verbose{Testing tag '\CurrentTrackedTag'}%
  \@tracklang@IfFileExists{#2\CurrentTrackedTag#3}%
  {%
    \let\@tracklang@if@file@exists\@tracklang@firstoftwo
    \let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@noop
  }%
  {%
    \let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@for@langII
  }%
\fi
\else

```

No region set. If there's a sub-language code then try again without it.

```

\ifx\CurrentTrackedDialectSubLang\empty
  \let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@for@langIskipscript
\else
  \edef\CurrentTrackedTag{\CurrentTrackedIsoCode-\CurrentTrackedDialectScript}%
  \@tracklang@verbose{Testing tag '\CurrentTrackedTag'}%
  \@tracklang@IfFileExists{#2\CurrentTrackedTag#3}%
  {%
    \let\@tracklang@if@file@exists\@tracklang@firstoftwo
    \let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@noop
  }%
  {%

```

```

        \let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@for@langIskipscr
    }%
    \fi
\fi
\else
    \ifx\CurrentTrackedDialectScript\empty

```

Region is set but no script. If there's a sub-language code then try again without it.

```

    \ifx\CurrentTrackedDialectSubLang\empty
        \let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@for@langIskipregion
    \else
        \edef\CurrentTrackedTag{\CurrentTrackedIsoCode-\CurrentTrackedRegion}%
        \@tracklang@verbose{Testing tag '\CurrentTrackedTag'}%
        \@tracklang@if@file@exists{#2\CurrentTrackedTag#3}%
        {%
            \let\@tracklang@if@file@exists\@tracklang@firstoftwo
            \let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@noop
        }%
        {%
            \let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@for@langIskipreg
        }%
    \fi
\else

```

Region and script set. If there's a sub-language code then try again without it.

```

    \ifx\CurrentTrackedDialectSubLang\empty
        \let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@for@langIskipscript
    \else
        \edef\CurrentTrackedTag{\CurrentTrackedIsoCode-\CurrentTrackedDialectScript
            -\CurrentTrackedRegion}%
        \@tracklang@verbose{Testing tag '\CurrentTrackedTag'}%
        \@tracklang@if@file@exists{#2\CurrentTrackedTag#3}%
        {%
            \let\@tracklang@if@file@exists\@tracklang@firstoftwo
            \let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@noop
        }%
        {%
            \let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@for@langIskipscr
        }%
    \fi
\fi
\fi
}%
\@tracklang@test@if@file@exists@next{#1}{#2}{#3}%
}

```

ists@for@langIIscriptregion Test <639-2>-<sublang>-<script>-<region> combination.

```

\def\@tracklang@test@if@file@exists@for@langIIscriptregion#1#2#3{%
    \let\CurrentTrackedIsoCode\CurrentTrackedIsoCodeII

```



```

\let\CurrentTrackedTag\CurrentTrackedIsoCode
\ifx\CurrentTrackedDialectSubLang\empty
\else
  \edef\CurrentTrackedTag{\CurrentTrackedTag-\CurrentTrackedDialectSubLang}%
\fi
\ifx\CurrentTrackedDialectScript\empty
\else
  \edef\CurrentTrackedTag{\CurrentTrackedTag-\CurrentTrackedDialectScript}%
\fi
\ifx\CurrentTrackedRegion\empty
\else
  \edef\CurrentTrackedTag{\CurrentTrackedTag-\CurrentTrackedRegion}%
\fi
\@tracklang@verbose{Testing tag ‘\CurrentTrackedTag’}%
\@tracklang@IfFileExists{#2\CurrentTrackedTag#3}%
{%
  \let\@tracklang@if@file@exists\@tracklang@firstoftwo
  \let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@noop
}%
{%
  \ifx\CurrentTrackedRegion\empty
  \ifx\CurrentTrackedDialectScript\empty

```

No script or region set. If there’s a sub-language code then try again without it.

```

\ifx\CurrentTrackedDialectSubLang\empty
  \let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@for@langIII
\else
  \let\CurrentTrackedTag\CurrentTrackedIsoCode
  \@tracklang@verbose{Testing tag ‘\CurrentTrackedTag’}%
  \@tracklang@IfFileExists{#2\CurrentTrackedTag#3}%
  {%
    \let\@tracklang@if@file@exists\@tracklang@firstoftwo
    \let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@noop
  }%
  {%
    \let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@for@langIII
  }%
\fi
\else

```

No region set. If there’s a sub-language code then try again without it.

```

\ifx\CurrentTrackedDialectSubLang\empty
  \let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@for@langIIiskripscrip
\else
  \edef\CurrentTrackedTag{\CurrentTrackedIsoCode-\CurrentTrackedDialectScript}%
  \@tracklang@verbose{Testing tag ‘\CurrentTrackedTag’}%
  \@tracklang@IfFileExists{#2\CurrentTrackedTag#3}%
  {%
    \let\@tracklang@if@file@exists\@tracklang@firstoftwo
    \let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@noop
  }%

```

```

    }%
    {%
    \let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@for@langIIskipsc
    }%
    \fi
  \fi
\else
  \ifx\CurrentTrackedDialectScript\empty

```

Region is set but no script. If there's a sub-language code then try again without it.

```

  \ifx\CurrentTrackedDialectSubLang\empty
    \let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@for@langIIskipregi
  \else
    \edef\CurrentTrackedTag{\CurrentTrackedIsoCode-\CurrentTrackedRegion}%
    \@tracklang@verbose{Testing tag '\CurrentTrackedTag'}%
    \@tracklang@IfFileExists{#2\CurrentTrackedTag#3}%
    {%
    \let\@tracklang@if@file@exists\@tracklang@firstoftwo
    \let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@noop
    }%
    {%
    \let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@for@langIIskipreg
    }%
    \fi
  \else

```

Both region and script are set. If there's a sub-language code then try again without it.

```

  \ifx\CurrentTrackedDialectSubLang\empty
    \let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@for@langIIskipscrip
  \else
    \edef\CurrentTrackedTag{\CurrentTrackedIsoCode-\CurrentTrackedDialectScript
    -\CurrentTrackedRegion}%
    \@tracklang@verbose{Testing tag '\CurrentTrackedTag'}%
    \@tracklang@IfFileExists{#2\CurrentTrackedTag#3}%
    {%
    \let\@tracklang@if@file@exists\@tracklang@firstoftwo
    \let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@noop
    }%
    {%
    \let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@for@langIIskipsc
    }%
    \fi
  \fi
  \fi
  \fi
  }%
  \@tracklang@test@if@file@exists@next{#1}{#2}{#3}%
}

```

sts@for@langIIIscripregion Test *(639-3)-(sublang)-(script)-(region)* combination.

```
\def\@tracklang@test@if@file@exists@for@langIIIscripregion#1#2#3{%
  \let\CurrentTrackedIsoCode\CurrentTrackedIsoCodeIII
  \let\CurrentTrackedTag\CurrentTrackedIsoCode
  \ifx\CurrentTrackedDialectSubLang\empty
  \else
    \edef\CurrentTrackedTag{\CurrentTrackedTag-\CurrentTrackedDialectSubLang}%
  \fi
  \ifx\CurrentTrackedDialectScript\empty
  \else
    \edef\CurrentTrackedTag{\CurrentTrackedTag-\CurrentTrackedDialectScript}%
  \fi
  \ifx\CurrentTrackedRegion\empty
  \else
    \edef\CurrentTrackedTag{\CurrentTrackedTag-\CurrentTrackedRegion}%
  \fi
  \@tracklang@verbose{Testing tag '\CurrentTrackedTag'}%
  \@tracklang@IfFileExists{#2\CurrentTrackedTag#3}%
  {%
    \let\@tracklang@if@file@exists\@tracklang@firstoftwo
    \let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@noop
  }%
  {%
    \ifx\CurrentTrackedRegion\empty
      \ifx\CurrentTrackedDialectScript\empty
```

No script or region set. If there's a sub-language code then try again without it.

```
\ifx\CurrentTrackedDialectSubLang\empty
  \let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@for@langvariant
\else
  \let\CurrentTrackedTag\CurrentTrackedIsoCode
  \@tracklang@verbose{Testing tag '\CurrentTrackedTag'}%
  \@tracklang@IfFileExists{#2\CurrentTrackedTag#3}%
  {%
    \let\@tracklang@if@file@exists\@tracklang@firstoftwo
    \let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@noop
  }%
  {%
    \let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@for@langvariant
  }%
\fi
\else
```

No region set. If there's a sub-language code then try again without it.

```
\ifx\CurrentTrackedDialectSubLang\empty
  \let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@for@langIIIskipscr
\else
  \edef\CurrentTrackedTag{\CurrentTrackedIsoCode-\CurrentTrackedDialectScript}%
  \@tracklang@verbose{Testing tag '\CurrentTrackedTag'}%
```

```

    \@tracklang@if@file@exists@next\@tracklang@test@if@file@exists@noop
  }%
  {%
    \let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@for@langIIIskips
  }%
\fi
\fi
\else
\ifx\CurrentTrackedDialectScript\empty

```

Region is set but no script. If there's a sub-language code then try again without it.

```

\ifx\CurrentTrackedDialectSubLang\empty
\let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@for@langIIIskips
\else
\edef\CurrentTrackedTag{\CurrentTrackedIsoCode-\CurrentTrackedRegion}%
\@tracklang@verbose{Testing tag '\CurrentTrackedTag'}%
\@tracklang@if@file@exists@next\@tracklang@test@if@file@exists@noop
}
{%
\let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@for@langIIIskips
}
\fi
\else

```

Both region and script are set. If there's a sub-language code then try again without it.

```

\ifx\CurrentTrackedDialectSubLang\empty
\let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@for@langIIIskips
\else
\edef\CurrentTrackedTag{\CurrentTrackedIsoCode-\CurrentTrackedDialectScript
-\CurrentTrackedRegion}%
\@tracklang@verbose{Testing tag '\CurrentTrackedTag'}%
\@tracklang@if@file@exists@next\@tracklang@test@if@file@exists@noop
}
{%
\let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@for@langIIIskips
}
\fi
\fi
\fi

```

```

}%
\@tracklang@test@if@file@exists@next{#1}{#2}{#3}%
}

```

`@exists@for@langIscript` No region. Has a script but already tested with 639-1 and script. Just test language code alone.

```

\def\@tracklang@test@if@file@exists@for@langIscript#1#2#3{%
  \let\CurrentTrackedTag\CurrentTrackedIsoCode
  \ifx\CurrentTrackedDialectSubLang\empty
  \else
    \edef\CurrentTrackedTag{\CurrentTrackedTag-\CurrentTrackedDialectSubLang}%
  \fi
  \@tracklang@verbose{Testing tag '\CurrentTrackedTag'}%
  \@tracklang@IfFileExists{#2\CurrentTrackedTag#3}%
  {%
    \let\@tracklang@if@file@exists\@tracklang@firstoftwo
    \let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@noop
  }%
  {%
    \ifx\CurrentTrackedDialectSubLang\empty
      \IfTrackedLanguageHasIsoCode
      {639-2}{\CurrentTrackedLanguage}
      {%
        \let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@for@langIscript
      }%
      {%
        \IfTrackedLanguageHasIsoCode
        {639-3}{\CurrentTrackedLanguage}
        {%
          \let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@for@langIIscript
        }%
        {%
          \let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@for@langvariant
        }%
      }%
    \else

```

Try without sub-language code.

```

\let\CurrentTrackedTag\CurrentTrackedIsoCode
\@tracklang@verbose{Testing tag '\CurrentTrackedTag'}%
\@tracklang@IfFileExists{#2\CurrentTrackedTag#3}%
{%
  \let\@tracklang@if@file@exists\@tracklang@firstoftwo
  \let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@noop
}%
{%
  \IfTrackedLanguageHasIsoCode
  {639-2}{\CurrentTrackedLanguage}
  {%
    \let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@for@langIscript
  }%

```

```

    }%
    {%
        \IfTrackedLanguageHasIsoCode
        {639-3}{\CurrentTrackedLanguage}
        {%
            \let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@for@langIIscript
        }%
        {%
            \let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@for@langvariant
        }%
    }%
}
\fi
}%
\@tracklang@test@if@file@exists@next{#1}{#2}{#3}%
}

```

file@exists@for@langIIscript No region but has a script.

```

\def\@tracklang@test@if@file@exists@for@langIIscript#1#2#3{%
    \let\CurrentTrackedIsoCode\CurrentTrackedIsoCodeII
    \let\CurrentTrackedTag\CurrentTrackedIsoCode
    \ifx\CurrentTrackedDialectSubLang\empty
    \else
        \edef\CurrentTrackedTag{\CurrentTrackedTag-\CurrentTrackedDialectSubLang}%
    \fi
    \edef\CurrentTrackedTag{\CurrentTrackedTag-\CurrentTrackedDialectScript}%
    \@tracklang@verbose{Testing tag '\CurrentTrackedTag'}%
    \@tracklang@IfFileExists{#2\CurrentTrackedTag#3}%
    {%
        \let\@tracklang@if@file@exists\@tracklang@firstoftwo
        \let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@noop
    }%
    {%
        \ifx\CurrentTrackedDialectSubLang\empty
            \let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@for@langIIskipscript
        \else

```

Try without sub-language.

```

        \edef\CurrentTrackedTag{\CurrentTrackedIsoCode-\CurrentTrackedDialectScript}%
        \@tracklang@verbose{Testing tag '\CurrentTrackedTag'}%
        \@tracklang@IfFileExists{#2\CurrentTrackedTag#3}%
        {%
            \let\@tracklang@if@file@exists\@tracklang@firstoftwo
            \let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@noop
        }%
        {%
            \let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@for@langIIskipscript
        }%
    \fi
}%

```

```

    \@tracklang@test@if@file@exists@next{#1}{#2}{#3}%
}

```

exists@for@langIIskipsript No region. Has a script but already checked.

```

\def\@tracklang@test@if@file@exists@for@langIIskipsript#1#2#3{%
  \let\CurrentTrackedTag\CurrentTrackedIsoCode
  \ifx\CurrentTrackedDialectSubLang\empty
  \else
    \edef\CurrentTrackedTag{\CurrentTrackedTag-\CurrentTrackedDialectSubLang}%
  \fi
  \@tracklang@verbose{Testing tag ‘\CurrentTrackedTag’}%
  \@tracklang@IfFileExists{#2\CurrentTrackedTag#3}%
  {%
    \let\@tracklang@if@file@exists\@tracklang@firstoftwo
    \let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@noop
  }%
  {%
    \ifx\CurrentTrackedDialectSubLang\empty
      \IfTrackedLanguageHasIsoCode
      {639-3}{\CurrentTrackedLanguage}
      {%
        \let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@for@langIIIsript
      }%
      {%
        \let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@for@langvariant
      }%
    \else

```

Try without sub-language.

```

  \let\CurrentTrackedTag\CurrentTrackedIsoCode
  \@tracklang@verbose{Testing tag ‘\CurrentTrackedTag’}%
  \@tracklang@IfFileExists{#2\CurrentTrackedTag#3}%
  {%
    \let\@tracklang@if@file@exists\@tracklang@firstoftwo
    \let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@noop
  }%
  {%
    \IfTrackedLanguageHasIsoCode
    {639-3}{\CurrentTrackedLanguage}
    {%
      \let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@for@langIIIsript
    }%
    {%
      \let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@for@langvariant
    }%
  }%
  \fi
}%
\@tracklang@test@if@file@exists@next{#1}{#2}{#3}%
}

```

le@exists@for@langIIIscript No region but has a script.

```
\def\@tracklang@test@if@file@exists@for@langIIIscript#1#2#3{%
  \let\CurrentTrackedIsoCode\CurrentTrackedIsoCodeIII
  \let\CurrentTrackedTag\CurrentTrackedIsoCode
  \ifx\CurrentTrackedDialectSubLang\empty
  \else
    \edef\CurrentTrackedTag{\CurrentTrackedTag-\CurrentTrackedDialectSubLang}%
  \fi
  \edef\CurrentTrackedTag{\CurrentTrackedTag-\CurrentTrackedDialectScript}%
  \@tracklang@verbose{Testing tag '\CurrentTrackedTag'}%
  \@tracklang@IfFileExists{#2\CurrentTrackedTag#3}%
  {%
    \let\@tracklang@if@file@exists\@tracklang@firstoftwo
    \let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@noop
  }%
  {%
    \ifx\CurrentTrackedDialectSubLang\empty
      \let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@for@langIIIskipscript
    \else
```

Try without sub-language.

```
\edef\CurrentTrackedTag{\CurrentTrackedIsoCode-\CurrentTrackedDialectScript}%
\@tracklang@verbose{Testing tag '\CurrentTrackedTag'}%
\@tracklang@IfFileExists{#2\CurrentTrackedTag#3}%
{%
  \let\@tracklang@if@file@exists\@tracklang@firstoftwo
  \let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@noop
}%
{%
  \let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@for@langIIIskipscript
}%
\fi
}%
\@tracklang@test@if@file@exists@next{#1}{#2}{#3}%
}
```

exists@for@langIIIskipscript No region. Has a script but already checked.

```
\def\@tracklang@test@if@file@exists@for@langIIIskipscript#1#2#3{%
  \let\CurrentTrackedTag\CurrentTrackedIsoCode
  \ifx\CurrentTrackedDialectSubLang\empty
  \else
    \edef\CurrentTrackedTag{\CurrentTrackedTag-\CurrentTrackedDialectSubLang}%
  \fi
  \@tracklang@verbose{Testing tag '\CurrentTrackedTag'}%
  \@tracklang@IfFileExists{#2\CurrentTrackedTag#3}%
  {%
    \let\@tracklang@if@file@exists\@tracklang@firstoftwo
    \let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@noop
  }%
  {%
```



```

\ifx\CurrentTrackedDialectSubLang\empty
  \let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@for@langvariant
\else

```

Try without sub-language.

```

  \let\CurrentTrackedTag\CurrentTrackedIsoCode
  \@tracklang@verbose{Testing tag ‘\CurrentTrackedTag’}%
  \@tracklang@IfFileExists{#2\CurrentTrackedTag#3}%
  {%
    \let\@tracklang@if@file@exists\@tracklang@firstoftwo
    \let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@noop
  }%
  {%
    \let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@for@langvariant
  }%
  \fi
}%
\@tracklang@test@if@file@exists@next{#1}{#2}{#3}%
}

```

\@tracklang@test@if@file@exists@for@langIskipregion No script. Has a region but already tested with 639-1 and script. Just test language code alone.

```

\def\@tracklang@test@if@file@exists@for@langIskipregion#1#2#3{%
  \let\CurrentTrackedTag\CurrentTrackedIsoCode
  \ifx\CurrentTrackedDialectSubLang\empty
  \else
    \edef\CurrentTrackedTag{\CurrentTrackedTag-\CurrentTrackedDialectSubLang}%
  \fi
  \@tracklang@verbose{Testing tag ‘\CurrentTrackedTag’}%
  \@tracklang@IfFileExists{#2\CurrentTrackedTag#3}%
  {%
    \let\@tracklang@if@file@exists\@tracklang@firstoftwo
    \let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@noop
  }%
  {%
    \ifx\CurrentTrackedDialectSubLang\empty
      \IfTrackedLanguageHasIsoCode
      {639-2}{\CurrentTrackedLanguage}
      {%
        \let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@for@langIIregion
      }%
      {%
        \IfTrackedLanguageHasIsoCode
        {639-3}{\CurrentTrackedLanguage}
        {%
          \let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@for@langIIIregion
        }%
        {%
          \let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@for@langvariant
        }%
      }%
    }%
  }%
}

```

```

    }%
  \else
    Try without sub-language code.
    \let\CurrentTrackedTag\CurrentTrackedIsoCode
    \@tracklang@verbose{Testing tag '\CurrentTrackedTag'}%
    \@tracklang@IfFileExists{#2\CurrentTrackedTag#3}%
    {%
      \let\@tracklang@if@file@exists\@tracklang@firstoftwo
      \let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@noop
    }%
    {%
      \IfTrackedLanguageHasIsoCode
      {639-2}{\CurrentTrackedLanguage}
      {%
        \let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@for@langIIregion
      }%
      {%
        \IfTrackedLanguageHasIsoCode
        {639-3}{\CurrentTrackedLanguage}
        {%
          \let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@for@langIIregion
        }%
        {%
          \let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@for@langvariant
        }%
      }%
    }%
  \fi
}%
\@tracklang@test@if@file@exists@next{#1}{#2}{#3}%
}

```

file@exists@for@langIIregion No script but has a region.

```

\def\@tracklang@test@if@file@exists@for@langIIregion#1#2#3{%
  \let\CurrentTrackedIsoCode\CurrentTrackedIsoCodeII
  \let\CurrentTrackedTag\CurrentTrackedIsoCode
  \ifx\CurrentTrackedDialectSubLang\empty
  \else
    \edef\CurrentTrackedTag{\CurrentTrackedTag-\CurrentTrackedDialectSubLang}%
  \fi
  \edef\CurrentTrackedTag{\CurrentTrackedTag-\CurrentTrackedDialectScript}%
  \@tracklang@verbose{Testing tag '\CurrentTrackedTag'}%
  \@tracklang@IfFileExists{#2\CurrentTrackedTag#3}%
  {%
    \let\@tracklang@if@file@exists\@tracklang@firstoftwo
    \let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@noop
  }%
  {%
    \ifx\CurrentTrackedDialectSubLang\empty

```

```

\let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@for@langIIskipregion
\else

```

Try without sub-language.

```

\edef\CurrentTrackedTag{\CurrentTrackedIsoCode-\CurrentTrackedDialectScript}%
\@tracklang@verbose{Testing tag '\CurrentTrackedTag'}%
\@tracklang@IfFileExists{#2\CurrentTrackedTag#3}%
{%
\let\@tracklang@if@file@exists\@tracklang@firstoftwo
\let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@noop
}%
{%
\let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@for@langIIskipregion
}%
\fi
}%
\@tracklang@test@if@file@exists@next{#1}{#2}{#3}%
}

```

exists@for@langIIskipregion No script. Has a region but already tested with 639-2 and region. Just test language code alone.

```

\def\@tracklang@test@if@file@exists@for@langIIskipregion#1#2#3{%
\let\CurrentTrackedTag\CurrentTrackedIsoCode
\ifx\CurrentTrackedDialectSubLang\empty
\else
\edef\CurrentTrackedTag{\CurrentTrackedTag-\CurrentTrackedDialectSubLang}%
\fi
\@tracklang@verbose{Testing tag '\CurrentTrackedTag'}%
\@tracklang@IfFileExists{#2\CurrentTrackedTag#3}%
{%
\let\@tracklang@if@file@exists\@tracklang@firstoftwo
\let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@noop
}%
{%
\ifx\CurrentTrackedDialectSubLang\empty
\IfTrackedLanguageHasIsoCode
{639-3}{\CurrentTrackedLanguage}
{%
\let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@for@langIIIregion
}%
{%
\let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@for@langvariant
}%
\else

```

Try without sub-language code.

```

\let\CurrentTrackedTag\CurrentTrackedIsoCode
\@tracklang@verbose{Testing tag '\CurrentTrackedTag'}%
\@tracklang@IfFileExists{#2\CurrentTrackedTag#3}%
{%

```

```

        \let\@tracklang@if@file@exists\@tracklang@firstoftwo
        \let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@noop
    }%
    {%
        \IfTrackedLanguageHasIsoCode
        {639-3}{\CurrentTrackedLanguage}
        {%
            \let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@for@langIIregion
        }%
        {%
            \let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@for@langvariant
        }%
    }%
    \fi
}
\@tracklang@test@if@file@exists@next{#1}{#2}{#3}%
}

```

file@exists@for@langIIregion No script but has a region.

```

\def\@tracklang@test@if@file@exists@for@langIIregion#1#2#3{%
    \let\CurrentTrackedIsoCode\CurrentTrackedIsoCodeII
    \let\CurrentTrackedTag\CurrentTrackedIsoCode
    \ifx\CurrentTrackedDialectSubLang\empty
    \else
        \edef\CurrentTrackedTag{\CurrentTrackedTag-\CurrentTrackedDialectSubLang}%
    \fi
    \edef\CurrentTrackedTag{\CurrentTrackedTag-\CurrentTrackedDialectScript}%
    \@tracklang@verbose{Testing tag '\CurrentTrackedTag'}%
    \@tracklang@IfFileExists{#2\CurrentTrackedTag#3}%
    {%
        \let\@tracklang@if@file@exists\@tracklang@firstoftwo
        \let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@noop
    }%
    {%
        \ifx\CurrentTrackedDialectSubLang\empty
            \let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@for@langIIskipregion
        \else

```

Try without sub-language.

```

        \edef\CurrentTrackedTag{\CurrentTrackedIsoCode-\CurrentTrackedDialectScript}%
        \@tracklang@verbose{Testing tag '\CurrentTrackedTag'}%
        \@tracklang@IfFileExists{#2\CurrentTrackedTag#3}%
        {%
            \let\@tracklang@if@file@exists\@tracklang@firstoftwo
            \let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@noop
        }%
        {%
            \let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@for@langIIskipregion
        }%
    \fi

```

```

}%
\@tracklang@test@if@file@exists@next{#1}{#2}{#3}%
}

```

`exists@for@langIIIskipregion` No script. Has a region but already tested with 639-3 and region. Just test language code alone.

```

\def\@tracklang@test@if@file@exists@for@langIIIskipregion#1#2#3{%
  \let\CurrentTrackedTag\CurrentTrackedIsoCode
  \ifx\CurrentTrackedDialectSubLang\empty
  \else
    \edef\CurrentTrackedTag{\CurrentTrackedTag-\CurrentTrackedDialectSubLang}%
  \fi
  \@tracklang@verbose{Testing tag '\CurrentTrackedTag'}%
  \@tracklang@if@file@exists{#2\CurrentTrackedTag#3}%
  {%
    \let\@tracklang@if@file@exists\@tracklang@firstoftwo
    \let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@noop
  }%
  {%
    \ifx\CurrentTrackedDialectSubLang\empty
      \let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@for@langvariant
    \else

```

Try without sub-language code.

```

  \let\CurrentTrackedTag\CurrentTrackedIsoCode
  \@tracklang@verbose{Testing tag '\CurrentTrackedTag'}%
  \@tracklang@if@file@exists{#2\CurrentTrackedTag#3}%
  {%
    \let\@tracklang@if@file@exists\@tracklang@firstoftwo
    \let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@noop
  }%
  {%
    \let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@for@langvariant
  }%
  \fi
}%
\@tracklang@test@if@file@exists@next{#1}{#2}{#3}%
}

```

`le@exists@for@langIIIregion` No script but has a region.

```

\def\@tracklang@test@if@file@exists@for@langIIIregion#1#2#3{%
  \let\CurrentTrackedIsoCode\CurrentTrackedIsoCodeIII
  \let\CurrentTrackedTag\CurrentTrackedIsoCode
  \ifx\CurrentTrackedDialectSubLang\empty
  \else
    \edef\CurrentTrackedTag{\CurrentTrackedTag-\CurrentTrackedDialectSubLang}%
  \fi
  \edef\CurrentTrackedTag{\CurrentTrackedTag-\CurrentTrackedDialectScript}%
  \@tracklang@verbose{Testing tag '\CurrentTrackedTag'}%
  \@tracklang@if@file@exists{#2\CurrentTrackedTag#3}%

```

```

{%
\let\@tracklang@if@file@exists\@tracklang@firstoftwo
\let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@noop
}%
{%
\ifx\CurrentTrackedDialectSubLang\empty
\let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@for@langIIskipregion
\else

```

Try without sub-language.

```

\edef\CurrentTrackedTag{\CurrentTrackedIsoCode-\CurrentTrackedDialectScript}%
\@tracklang@verbose{Testing tag '\CurrentTrackedTag'}%
\@tracklang@if@file@exists{#2\CurrentTrackedTag#3}%
{%
\let\@tracklang@if@file@exists\@tracklang@firstoftwo
\let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@noop
}%
{%
\let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@for@langIIIskipregion
}%
\fi
}%
\@tracklang@test@if@file@exists@next{#1}{#2}{#3}%
}

```

s@for@langIskipscriptregion Already tested script and region. Test without script if the script is the default then without region.

```

\def\@tracklang@test@if@file@exists@for@langIskipscriptregion#1#2#3{%
Is the script the default for this dialect?
\@tracklang@if@file@exists{#2\CurrentTrackedTag#3}%
\@tracklang@if@file@exists{#1}{#2}{#3}%
}

```

Try just language code and region.

```

\let\CurrentTrackedTag\CurrentTrackedIsoCode
\ifx\CurrentTrackedDialectSubLang\empty
\else
\edef\CurrentTrackedTag{\CurrentTrackedTag-\CurrentTrackedDialectSubLang}%
\fi
\edef\CurrentTrackedTag{\CurrentTrackedTag-\CurrentTrackedRegion}%
\@tracklang@verbose{Testing tag '\CurrentTrackedTag'}%
\@tracklang@if@file@exists{#2\CurrentTrackedTag#3}%
{%
\let\@tracklang@if@file@exists\@tracklang@firstoftwo
\let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@noop
}%
{%
\ifx\CurrentTrackedDialectSubLang\empty

```

Try just language code and script.

```

        \let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@for@langIscrip
\else

```

Try without sub-language.

```

\edef\CurrentTrackedTag{\CurrentTrackedIsoCode-\CurrentTrackedRegion}%
\@tracklang@verbose{Testing tag '\CurrentTrackedTag'}%
\@tracklang@if@file@exists{#2\CurrentTrackedTag#3}%
{%
    \let\@tracklang@if@file@exists\@tracklang@firstoftwo
    \let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@noop
}%
{%
    \let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@for@langIscrip
}%
\fi
}%
}%
{%

```

Script isn't the default.

```

    \let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@for@langIscrip
}%
\@tracklang@test@if@file@exists@next{#1}{#2}{#3}%
}

```

s@for@langIscripregion Test with script and without region.

```

\def\@tracklang@test@if@file@exists@for@langIscripregion#1#2#3{%
    \let\CurrentTrackedTag\CurrentTrackedIsoCode
    \ifx\CurrentTrackedDialectSubLang\empty
    \else
        \edef\CurrentTrackedTag{\CurrentTrackedTag-\CurrentTrackedDialectSubLang}%
    \fi
    \edef\CurrentTrackedTag{\CurrentTrackedTag-\CurrentTrackedDialectScript}%
    \@tracklang@verbose{Testing tag '\CurrentTrackedTag'}%
    \@tracklang@if@file@exists{#2\CurrentTrackedTag#3}%
    {%
        \let\@tracklang@if@file@exists\@tracklang@firstoftwo
        \let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@noop
    }%
    {%
        \ifx\CurrentTrackedDialectSubLang\empty

```

Try just language code.

```

    \let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@for@langIscrip
\else

```

Try without sub-language.

```

\edef\CurrentTrackedTag{\CurrentTrackedIsoCode-\CurrentTrackedDialectScript}%
\@tracklang@verbose{Testing tag '\CurrentTrackedTag'}%
\@tracklang@if@file@exists{#2\CurrentTrackedTag#3}%
{%

```

```

        \let\@tracklang@if@file@exists\@tracklang@firstoftwo
        \let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@noop
    }%
    {%
        \let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@for@langIskipscriptsl
    }%
    \fi
}
\@tracklang@test@if@file@exists@next{#1}{#2}{#3}%
}

```

or@langIskipscriptskipregion Test without script and without region.

```

\def\@tracklang@test@if@file@exists@for@langIskipscriptskipregion#1#2#3{%
    \let\CurrentTrackedTag\CurrentTrackedIsoCode
    \ifx\CurrentTrackedDialectSubLang\empty
    \else
        \edef\CurrentTrackedTag{\CurrentTrackedTag-\CurrentTrackedDialectSubLang}%
    \fi
    \@tracklang@verbose{Testing tag ‘\CurrentTrackedTag’}%
    \@tracklang@if@file@exists{#2\CurrentTrackedTag#3}%
    {%
        \let\@tracklang@if@file@exists\@tracklang@firstoftwo
        \let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@noop
    }%
    {%
        \ifx\CurrentTrackedDialectSubLang\empty

```

Try other language codes with script and region.

```

    \IfTrackedLanguageHasIsoCode
    {639-2}{\CurrentTrackedLanguage}
    {%
        \let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@for@langIIscriptregi
    }%
    {%
        \IfTrackedLanguageHasIsoCode
        {639-3}{\CurrentTrackedLanguage}
        {%
            \let\CurrentTrackedIsoCode\CurrentTrackedIsoCodeIII
            \let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@for@langIIIscript
        }%
        {%

```

No other language codes. Try just the region.

```

        \let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@for@region
    }%
    }%
\else

```

Try just language code.

```

\let\CurrentTrackedTag\CurrentTrackedIsoCode
\@tracklang@verbose{Testing tag ‘\CurrentTrackedTag’}%

```



```

\@tracklang@ifFileExists{#2\CurrentTrackedTag#3}%
{%
  \let\@tracklang@if@file@exists\@tracklang@firstoftwo
  \let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@noop
}%
{%

```

Try other language codes with script and region.

```

\IfTrackedLanguageHasIsoCode
{639-2}{\CurrentTrackedLanguage}
{%
  \let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@for@langIIscriptregi
}%
{%
  \IfTrackedLanguageHasIsoCode
  {639-3}{\CurrentTrackedLanguage}
  {%
    \let\CurrentTrackedIsoCode\CurrentTrackedIsoCodeIII
    \let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@for@langIIIscrip
  }%
  {%

```

No other language codes. Try just the region.

```

  \let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@for@region
  }%
}
}
\fi
}%
\@tracklang@test@if@file@exists@next{#1}{#2}{#3}%
}

```

`\@for@langIIskipscriptregion` Already tested script and region. Test without script if the script is the default then without region.

```

\def\@tracklang@test@if@file@exists@for@langIIskipscriptregion#1#2#3{%

```

Is the script the default for this dialect?

```

\@tracklang@ifcseqcsname\CurrentTrackedDialectScript
  {\@tracklang@knowniso@script@\CurrentTrackedLanguage}%
{%

```

Try just language code and region.

```

\let\CurrentTrackedTag\CurrentTrackedIsoCode
\ifx\CurrentTrackedDialectSubLang\empty
\else
  \edef\CurrentTrackedTag{\CurrentTrackedTag-\CurrentTrackedDialectSubLang}%
\fi
\edef\CurrentTrackedTag{\CurrentTrackedTag-\CurrentTrackedRegion}%
\@tracklang@verbose[Testing tag '\CurrentTrackedTag']%
\@tracklang@ifFileExists{#2\CurrentTrackedTag#3}%
{%

```

```

\let\@tracklang@if@file@exists\@tracklang@firstoftwo
\let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@noop
}%
{%
\ifx\CurrentTrackedDialectSubLang\empty

```

Try just language code and script.

```

\let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@for@langIIscriptskip
\else

```

Try without sub-language.

```

\edef\CurrentTrackedTag{\CurrentTrackedIsoCode-\CurrentTrackedRegion}%
\@tracklang@verbose{Testing tag '\CurrentTrackedTag'}%
\@tracklang@if@file@exists{#2\CurrentTrackedTag#3}%
{%
\let\@tracklang@if@file@exists\@tracklang@firstoftwo
\let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@noop
}%
{%
\let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@for@langIIscriptskip
}%
\fi
}%
}%
{%

```

Script isn't the default.

```

\let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@for@langIIscriptskipregion
}%
\@tracklang@test@if@file@exists@next{#1}{#2}{#3}%
}

```

@for@langIIscriptskipregion Test with script and without region.

```

\def\@tracklang@test@if@file@exists@for@langIIscriptskipregion#1#2#3{%
\let\CurrentTrackedTag\CurrentTrackedIsoCode
\ifx\CurrentTrackedDialectSubLang\empty
\else
\edef\CurrentTrackedTag{\CurrentTrackedTag-\CurrentTrackedDialectSubLang}%
\fi
\edef\CurrentTrackedTag{\CurrentTrackedTag-\CurrentTrackedDialectScript}%
\@tracklang@verbose{Testing tag '\CurrentTrackedTag'}%
\@tracklang@if@file@exists{#2\CurrentTrackedTag#3}%
{%
\let\@tracklang@if@file@exists\@tracklang@firstoftwo
\let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@noop
}%
{%
\ifx\CurrentTrackedDialectSubLang\empty

```

Try just language code.

```

\let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@for@langIIscriptskip
\else

```

Try without sub-language.

```
\edef\CurrentTrackedTag{\CurrentTrackedIsoCode-\CurrentTrackedDialectScript}%
\@tracklang@verbose{Testing tag ‘\CurrentTrackedTag’}%
\@tracklang@IfFileExists{#2\CurrentTrackedTag#3}%
{%
  \let\@tracklang@if@file@exists\@tracklang@firstoftwo
  \let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@noop
}%
{%
  \let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@for@langIIskipscript
}%
\fi
}%
\@tracklang@test@if@file@exists@next{#1}{#2}{#3}%
}
```

@langIIskipscriptskipregion Test without script and without region.

```
\def\@tracklang@test@if@file@exists@for@langIIskipscriptskipregion#1#2#3{%
  \let\CurrentTrackedTag\CurrentTrackedIsoCode
  \ifx\CurrentTrackedDialectSubLang\empty
  \else
  \edef\CurrentTrackedTag{\CurrentTrackedTag-\CurrentTrackedDialectSubLang}%
  \fi
  \@tracklang@verbose{Testing tag ‘\CurrentTrackedTag’}%
  \@tracklang@IfFileExists{#2\CurrentTrackedTag#3}%
  {%
    \let\@tracklang@if@file@exists\@tracklang@firstoftwo
    \let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@noop
  }%
  {%
    \ifx\CurrentTrackedDialectSubLang\empty
```

Try other language code with script and region.

```
\IfTrackedLanguageHasIsoCode
{639-3}{\CurrentTrackedLanguage}
{%
  \let\CurrentTrackedIsoCode\CurrentTrackedIsoCodeIII
  \let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@for@langIIIscriptreg
}%
{%
```

No other language codes. Try just the region.

```
\let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@for@region
}%
\else
```

Try just language code.

```
\let\CurrentTrackedTag\CurrentTrackedIsoCode
\@tracklang@verbose{Testing tag ‘\CurrentTrackedTag’}%
\@tracklang@IfFileExists{#2\CurrentTrackedTag#3}%
{%
```

```

\let\@tracklang@if@file@exists\@tracklang@firstoftwo
\let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@noop
}%
{%

```

Try other language codes with script and region.

```

\IfTrackedLanguageHasIsoCode
{639-3}{\CurrentTrackedLanguage}
{%
\let\CurrentTrackedIsoCode\CurrentTrackedIsoCodeIII
\let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@for@langIIIscripereg
}%
{%

```

No other language codes. Try just the region.

```

\let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@for@region
}%
\fi
}%
\@tracklang@test@if@file@exists@next{#1}{#2}{#3}%
}

```

for@langIIIskipscriptregion Already tested script and region. Test without script if the script is the default then without region.

```

\def\@tracklang@test@if@file@exists@for@langIIIskipscriptregion#1#2#3{%
Is the script the default for this dialect?
\@tracklang@ifcseqcsname\CurrentTrackedDialectScript
{\@tracklang@knowniso@script@\CurrentTrackedLanguage}%
{%

```

Try just language code and region.

```

\let\CurrentTrackedTag\CurrentTrackedIsoCode
\ifx\CurrentTrackedDialectSubLang\empty
\else
\edef\CurrentTrackedTag{\CurrentTrackedTag-\CurrentTrackedDialectSubLang}%
\fi
\edef\CurrentTrackedTag{\CurrentTrackedTag-\CurrentTrackedRegion}%
\@tracklang@verbose{Testing tag '\CurrentTrackedTag'}%
\@tracklang@ifFileExists{#2\CurrentTrackedTag#3}%
{%
\let\@tracklang@if@file@exists\@tracklang@firstoftwo
\let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@noop
}%
\ifx\CurrentTrackedDialectSubLang\empty

```

Try just language code and script.

```

\let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@for@langIIIscripkip
\else

```

Try without sub-language.

```
\edef\CurrentTrackedTag{\CurrentTrackedIsoCode-\CurrentTrackedRegion}%
\@tracklang@verbose{Testing tag '\CurrentTrackedTag'}%
\@tracklang@IfFileExists{#2\CurrentTrackedTag#3}%
{%
  \let\@tracklang@if@file@exists\@tracklang@firstoftwo
  \let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@noop
}%
{%
  \let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@for@langIIIscrip
}%
\fi
}%
}%
{%
```

Script isn't the default.

```
\let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@for@langIIIscrip
}%
\@tracklang@test@if@file@exists@next{#1}{#2}{#3}%
}
```

for@langIIIscripregion Test with script and without region.

```
\def\@tracklang@test@if@file@exists@for@langIIIscripregion#1#2#3{%
  \let\CurrentTrackedTag\CurrentTrackedIsoCode
  \ifx\CurrentTrackedDialectSubLang\empty
  \else
    \edef\CurrentTrackedTag{\CurrentTrackedTag-\CurrentTrackedDialectSubLang}%
  \fi
  \edef\CurrentTrackedTag{\CurrentTrackedTag-\CurrentTrackedDialectScript}%
  \@tracklang@verbose{Testing tag '\CurrentTrackedTag'}%
  \@tracklang@IfFileExists{#2\CurrentTrackedTag#3}%
  {%
    \let\@tracklang@if@file@exists\@tracklang@firstoftwo
    \let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@noop
  }%
  {%
    \ifx\CurrentTrackedDialectSubLang\empty
```

Try just language code.

```
\let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@for@langIIIscrip
\else
```

Try without sub-language.

```
\edef\CurrentTrackedTag{\CurrentTrackedIsoCode-\CurrentTrackedDialectScript}%
\@tracklang@verbose{Testing tag '\CurrentTrackedTag'}%
\@tracklang@IfFileExists{#2\CurrentTrackedTag#3}%
{%
  \let\@tracklang@if@file@exists\@tracklang@firstoftwo
  \let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@noop
}%
```

```

        {%
        \let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@for@langIIIskipscript
        }%
        \fi
    }%
    \@tracklang@test@if@file@exists@next{#1}{#2}{#3}%
}

```

langIIIskipscriptskipregion Test without script and without region.

```

\def\@tracklang@test@if@file@exists@for@langIIIskipscriptskipregion#1#2#3{%
  \let\CurrentTrackedTag\CurrentTrackedIsoCode
  \ifx\CurrentTrackedDialectSubLang\empty
  \else
    \edef\CurrentTrackedTag{\CurrentTrackedTag-\CurrentTrackedDialectSubLang}%
  \fi
  \@tracklang@verbose{Testing tag ‘\CurrentTrackedTag’}%
  \@tracklang@IfFileExists{#2\CurrentTrackedTag#3}%
  {%
    \let\@tracklang@if@file@exists\@tracklang@firstoftwo
    \let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@noop
  }%
  {%
    \ifx\CurrentTrackedDialectSubLang\empty

```

No other language codes. Try just the region.

```

    \let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@for@region
  \else

```

Try just language code.

```

    \let\CurrentTrackedTag\CurrentTrackedIsoCode
    \@tracklang@verbose{Testing tag ‘\CurrentTrackedTag’}%
    \@tracklang@IfFileExists{#2\CurrentTrackedTag#3}%
    {%
      \let\@tracklang@if@file@exists\@tracklang@firstoftwo
      \let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@noop
    }%
    {%

```

No other language codes. Try just the region.

```

    \let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@for@region
  }%
  \fi
}
\@tracklang@test@if@file@exists@next{#1}{#2}{#3}%
}

```

t@if@file@exists@for@langII No region or script.

```

\def\@tracklang@test@if@file@exists@for@langII#1#2#3{%
  \IfTrackedLanguageHasIsoCode{639-2}{\CurrentTrackedLanguage}%
  {%
    \let\CurrentTrackedIsoCode\CurrentTrackedIsoCodeII

```

```

\ifx\CurrentTrackedDialectSubLang\empty
  \let\CurrentTrackedTag\CurrentTrackedIsoCode
\else
  \edef\CurrentTrackedTag{\CurrentTrackedIsoCode-\CurrentTrackedDialectSubLang}%
\fi
\@tracklang@verbose{Testing tag '\CurrentTrackedTag'}%
\@tracklang@IfFileExists{#2\CurrentTrackedTag#3}%
{%
  \let\@tracklang@if@file@exists\@tracklang@firstoftwo
  \let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@noop
}%
{%
  \ifx\CurrentTrackedDialectSubLang\empty
    \let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@for@langIII
  \else
    \let\CurrentTrackedTag\CurrentTrackedIsoCode
    \@tracklang@verbose{Testing tag '\CurrentTrackedTag'}%
    \@tracklang@IfFileExists{#2\CurrentTrackedTag#3}%
    {%
      \let\@tracklang@if@file@exists\@tracklang@firstoftwo
      \let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@noop
    }%
    {%
      \let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@for@langIII
    }%
  \fi
}%
}
\let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@for@langIII
\@tracklang@test@if@file@exists@next{#1}{#2}{#3}%
}

```

\if@file@exists@for@langIII No region or script.

```

\def\@tracklang@test@if@file@exists@for@langIII#1#2#3{%
  \IfTrackedLanguageHasIsoCode{639-3}{\CurrentTrackedLanguage}%
  {%
    \let\CurrentTrackedIsoCode\CurrentTrackedIsoCodeIII
    \ifx\CurrentTrackedDialectSubLang\empty
      \let\CurrentTrackedTag\CurrentTrackedIsoCode
    \else
      \edef\CurrentTrackedTag{\CurrentTrackedIsoCode-\CurrentTrackedDialectSubLang}%
    \fi
    \@tracklang@verbose{Testing tag '\CurrentTrackedTag'}%
    \@tracklang@IfFileExists{#2\CurrentTrackedTag#3}%
    {%
      \let\@tracklang@if@file@exists\@tracklang@firstoftwo
      \let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@noop
    }%
  }%
}

```

```

}%
{%
  \ifx\CurrentTrackedDialectSubLang\empty
    \let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@for@langvariant
  \else
    \let\CurrentTrackedTag\CurrentTrackedIsoCode
    \@tracklang@verbose{Testing tag '\CurrentTrackedTag'}%
    \@tracklang@if@file@exists@next{\CurrentTrackedTag}%
    {%
      \let\@tracklang@if@file@exists\@tracklang@firstoftwo
      \let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@noop
    }%
    {%
      \let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@for@langvariant
    }%
  \fi
}%
}%
{%
  \let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@for@langvariant
}%
\@tracklang@test@if@file@exists@next{#1}{#2}{#3}%
}

```

t@if@file@exists@for@region Test just the region.

```

\def\@tracklang@test@if@file@exists@for@region#1#2#3{%
  \let\CurrentTrackedTag\CurrentTrackedRegion
  \@tracklang@verbose{Testing tag '\CurrentTrackedTag'}%
  \@tracklang@if@file@exists@next{\CurrentTrackedTag}%
  {%
    \let\@tracklang@if@file@exists\@tracklang@firstoftwo
    \let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@noop
  }%
  {%
    \let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@for@langvariant
  }%
  \@tracklang@test@if@file@exists@next{#1}{#2}{#3}%
}

```

file@exists@for@langvariant Test language code and variant

```

\def\@tracklang@test@if@file@exists@for@langvariant#1#2#3{%
  \ifx\CurrentTrackedDialectVariant\empty
    \let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@for@rootlang
  \else
    \IfTrackedLanguageHasIsoCode{639-1}{\CurrentTrackedLanguage}%
    {%
      \let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@for@langIvariant
    }%
    {%
      \IfTrackedLanguageHasIsoCode{639-2}{\CurrentTrackedLanguage}%
    }%
  }%
}

```



```

    {%
      \let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@for@langIIvariant
    }%
    {%
      \IfTrackedLanguageHasIsoCode{639-3}{\CurrentTrackedLanguage}%
      {%
        \let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@for@langIIIvariant
      }%
      {%
        \let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@for@rootlang
      }%
    }%
  }%
\fi
\@tracklang@test@if@file@exists@next{#1}{#2}{#3}%
}

```

file@exists@for@langIvariant Test 639-1 code and variant

```

\def\@tracklang@test@if@file@exists@for@langIvariant#1#2#3{%
  \let\CurrentTrackedIsoCode\CurrentTrackedIsoCodeI
  \let\CurrentTrackedTag\CurrentTrackedIsoCode
  \ifx\CurrentTrackedDialectSubLang\empty
  \else
    \edef\CurrentTrackedTag{\CurrentTrackedTag-\CurrentTrackedDialectSubLang}%
  \fi
  \edef\CurrentTrackedTag{\CurrentTrackedTag-\CurrentTrackedDialectVariant}%
  \@tracklang@verbose{Testing tag '\CurrentTrackedTag'}%
  \@tracklang@IfFileExists{#2\CurrentTrackedTag#3}%
  {%
    \let\@tracklang@if@file@exists\@tracklang@firstoftwo
    \let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@noop
  }%
  {%
    \IfTrackedLanguageHasIsoCode{639-2}{\CurrentTrackedLanguage}%
    {%
      \let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@for@langIIvariant
    }
    {%
      \IfTrackedLanguageHasIsoCode{639-3}{\CurrentTrackedLanguage}%
      {%
        \let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@for@langIIIvariant
      }
      {%
        \let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@for@rootlang
      }%
    }%
  }%
  \@tracklang@test@if@file@exists@next{#1}{#2}{#3}%
}

```

le@exists@for@langIIvariant Test 639-2 code and variant

```
\def\@tracklang@test@if@file@exists@for@langIIvariant#1#2#3{%
  \let\CurrentTrackedIsoCode\CurrentTrackedIsoCodeII
  \let\CurrentTrackedTag\CurrentTrackedIsoCode
  \ifx\CurrentTrackedDialectSubLang\empty
  \else
    \edef\CurrentTrackedTag{\CurrentTrackedTag-\CurrentTrackedDialectSubLang}%
  \fi
  \edef\CurrentTrackedTag{\CurrentTrackedTag-\CurrentTrackedDialectVariant}%
  \@tracklang@verbose{Testing tag '\CurrentTrackedTag'}%
  \@tracklang@IfFileExists{#2\CurrentTrackedTag#3}%
  {%
    \let\@tracklang@if@file@exists\@tracklang@firstoftwo
    \let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@noop
  }%
  {%
    \IfTrackedLanguageHasIsoCode{639-3}{\CurrentTrackedLanguage}%
    {%
      \let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@for@langIIvariant
    }
    {%
      \let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@for@rootlang
    }%
  }%
  \@tracklang@test@if@file@exists@next{#1}{#2}{#3}%
}
```

e@exists@for@langIIIvariant Test 639-3 code and variant

```
\def\@tracklang@test@if@file@exists@for@langIIIvariant#1#2#3{%
  \let\CurrentTrackedIsoCode\CurrentTrackedIsoCodeIII
  \let\CurrentTrackedTag\CurrentTrackedIsoCode
  \ifx\CurrentTrackedDialectSubLang\empty
  \else
    \edef\CurrentTrackedTag{\CurrentTrackedTag-\CurrentTrackedDialectSubLang}%
  \fi
  \edef\CurrentTrackedTag{\CurrentTrackedTag-\CurrentTrackedDialectVariant}%
  \@tracklang@verbose{Testing tag '\CurrentTrackedTag'}%
  \@tracklang@IfFileExists{#2\CurrentTrackedTag#3}%
  {%
    \let\@tracklang@if@file@exists\@tracklang@firstoftwo
    \let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@noop
  }%
  {%
    \let\@tracklang@test@if@file@exists@next\@tracklang@test@if@file@exists@for@rootlang
  }%
  \@tracklang@test@if@file@exists@next{#1}{#2}{#3}%
}
```

if@file@exists@for@rootlang Test the root language label. (Final test.)

```

\def\@tracklang@test@if@file@exists@for@rootlang#1#2#3{%
  \let\CurrentTrackedTag\CurrentTrackedLanguage
  \@tracklang@verbose{Testing tag '\CurrentTrackedTag'}%
  \@tracklang@if@file@exists{#2\CurrentTrackedTag#3}%
  {%
    \let\@tracklang@if@file@exists\@tracklang@firstoftwo
  }%
  }%
}%
}

```

ckedLanguageFileExists@orig The new definition of \IfTrackedLanguageFileExists has a different order of priority. If the original behaviour is specifically required, this has the pre version 1.4 definition.

```

\long\def\IfTrackedLanguageFileExists@orig#1#2#3#4#5{%
  \@tracklang@verbose{Finding file for dialect '#1' (pre-v1.4)}%
  \def\CurrentTrackedTag{}%
  \SetCurrentTrackedDialect{#1}%
  \IfTrackedDialect{#1}%
  {%
    \edef\CurrentTrackedTag{#1}%
    \@tracklang@verbose{Testing tag '\CurrentTrackedTag'}%
    \@tracklang@if@file@exists{#2\CurrentTrackedTag#3}%
    {#4}%
    {%
      \IfTrackedLanguageHasIsoCode
        {639-1}{\CurrentTrackedLanguage}
      {%
        \edef\CurrentTrackedIsoCode{%
          \TrackedIsoCodeFromLanguage
            {639-1}{\CurrentTrackedLanguage}}%
        \ifx\CurrentTrackedRegion\empty
          \let\CurrentTrackedTag\CurrentTrackedIsoCode
          \@tracklang@verbose{Testing tag '\CurrentTrackedTag'}%
          \@tracklang@if@file@exists{#2\CurrentTrackedTag#3}%
          {#4}
        {%
          \IfTrackedLanguageHasIsoCode
            {639-2}{\CurrentTrackedLanguage}
          {%
            \edef\CurrentTrackedIsoCode{%
              \TrackedIsoCodeFromLanguage
                {639-2}{\CurrentTrackedLanguage}}%
            \let\CurrentTrackedTag\CurrentTrackedIsoCode
            \@tracklang@verbose{Testing tag '\CurrentTrackedTag'}%
            \@tracklang@if@file@exists{#2\CurrentTrackedTag#3}%
            {#4}%
          {%
            \let\CurrentTrackedTag\CurrentTrackedLanguage
            \@tracklang@verbose{Testing tag '\CurrentTrackedTag'}%
            \@tracklang@if@file@exists{#2\CurrentTrackedTag#3}{#4}{#5}%
          }%
        }%
      }%
    }%
  }%
}

```

```

    }%
  }%
  {%
    \let\CurrentTrackedTag\CurrentTrackedLanguage
    \@tracklang@verbose{Testing tag '\CurrentTrackedTag'}%
    \@tracklang@IfFileExists{#2\CurrentTrackedTag#3}{#4}{#5}%
  }%
}%
\else
\edef\CurrentTrackedTag{%
  \CurrentTrackedIsoCode-\CurrentTrackedRegion}%
\@tracklang@verbose{Testing tag '\CurrentTrackedTag'}%
\@tracklang@IfFileExists{#2\CurrentTrackedTag#3}%
{#4}
{%
  \IfTrackedLanguageHasIsoCode
  {639-2}{\CurrentTrackedLanguage}
  {%
    \let\org@currenttrackedisocode\CurrentTrackedIsoCode
    \edef\CurrentTrackedIsoCode{%
      \TrackedIsoCodeFromLanguage
      {639-2}{\CurrentTrackedLanguage}}%
    \edef\CurrentTrackedTag{%
      \CurrentTrackedIsoCode-\CurrentTrackedRegion}%
    \@tracklang@verbose{Testing tag '\CurrentTrackedTag'}%
    \@tracklang@IfFileExists{#2\CurrentTrackedTag#3}%
    {#4}%
    {%
      \let\CurrentTrackedTag\org@currenttrackedisocode
      \let\org@currenttrackedisocode\CurrentTrackedIsoCode
      \let\CurrentTrackedIsoCode\CurrentTrackedTag
      \@tracklang@verbose{Testing tag '\CurrentTrackedTag'}%
      \@tracklang@IfFileExists{#2\CurrentTrackedTag#3}%
      {#4}
      {%
        \let\CurrentTrackedIsoCode\org@currenttrackedisocode
        \let\CurrentTrackedTag\CurrentTrackedIsoCode
        \@tracklang@verbose{Testing tag '\CurrentTrackedTag'}%
        \@tracklang@IfFileExists{#2\CurrentTrackedTag#3}%
        {#4}%
        {%
          \let\CurrentTrackedTag\CurrentTrackedRegion
          \@tracklang@verbose{Testing tag '\CurrentTrackedTag'}%
          \@tracklang@IfFileExists{#2\CurrentTrackedTag#3}%
          {#4}%
          {%
            \let\CurrentTrackedTag\CurrentTrackedLanguage
            \@tracklang@verbose{Testing tag '\CurrentTrackedTag'}%
            \@tracklang@IfFileExists{#2\CurrentTrackedTag#3}{#4}{#5}%
          }%
        }%
      }%
    }%
  }%
}

```

```

        }%
    }%
} %
{ %
    \let\CurrentTrackedTag\CurrentTrackedIsoCode
    \@tracklang@verbose{Testing tag '\CurrentTrackedTag'}%
    \@tracklang@IfFileExists{#2\CurrentTrackedTag#3}%
    {#4}%
    { %
        \let\CurrentTrackedTag\CurrentTrackedRegion
        \@tracklang@verbose{Testing tag '\CurrentTrackedTag'}%
        \@tracklang@IfFileExists{#2\CurrentTrackedTag#3}%
        {#4}%
        { %
            \let\CurrentTrackedTag\CurrentTrackedLanguage
            \@tracklang@verbose{Testing tag '\CurrentTrackedTag'}%
            \@tracklang@IfFileExists{#2\CurrentTrackedTag#3}{#4}{#5}%
        }%
    }%
} %
} %
} %
\fi
} %
{ %
    \IfTrackedLanguageHasIsoCode
    {639-2}{\CurrentTrackedLanguage}
    { %
        \edef\CurrentTrackedIsoCode{%
            \TrackedIsoCodeFromLanguage
            {639-2}{\CurrentTrackedLanguage}}%
    }%
    { %
        \IfTrackedLanguageHasIsoCode
        {639-3}{\CurrentTrackedLanguage}
        { %
            \edef\CurrentTrackedIsoCode{%
                \TrackedIsoCodeFromLanguage
                {639-3}{\CurrentTrackedLanguage}}%
        }%
        { %
            \let\CurrentTrackedIsoCode\empty
        }%
    }%
} %
\ifx\CurrentTrackedIsoCode\empty
    \ifx\CurrentTrackedRegion\empty
        \let\CurrentTrackedTag\CurrentTrackedLanguage
        \@tracklang@verbose{Testing tag '\CurrentTrackedTag'}%
        \@tracklang@IfFileExists{#2\CurrentTrackedTag#3}{#4}{#5}%
    \else

```

```

\let\CurrentTrackedTag\CurrentTrackedRegion
\@tracklang@verbose{Testing tag '\CurrentTrackedTag'}%
\@tracklang@IfFileExists{#2\CurrentTrackedTag#3}%
{#4}%
{%
\let\CurrentTrackedTag\CurrentTrackedLanguage
\@tracklang@verbose{Testing tag '\CurrentTrackedTag'}%
\@tracklang@IfFileExists{#2\CurrentTrackedTag#3}{#4}{#5}%
}%
\fi
\else
\ifx\CurrentTrackedRegion\empty
\let\CurrentTrackedTag\CurrentTrackedIsoCode
\@tracklang@verbose{Testing tag '\CurrentTrackedTag'}%
\@tracklang@IfFileExists{#2\CurrentTrackedTag#3}%
{#4}%
{%
\let\CurrentTrackedTag\CurrentTrackedLanguage
\@tracklang@verbose{Testing tag '\CurrentTrackedTag'}%
\@tracklang@IfFileExists{#2\CurrentTrackedTag#3}{#4}{#5}%
}%
\else
\edef\CurrentTrackedTag{%
\CurrentTrackedIsoCode-\CurrentTrackedRegion}%
\@tracklang@verbose{Testing tag '\CurrentTrackedTag'}%
\@tracklang@IfFileExists{#2\CurrentTrackedTag#3}%
{#4}%
{%
\let\CurrentTrackedTag\CurrentTrackedIsoCode
\@tracklang@verbose{Testing tag '\CurrentTrackedTag'}%
\@tracklang@IfFileExists{#2\CurrentTrackedTag#3}%
{#4}%
{%
\let\CurrentTrackedTag\CurrentTrackedRegion
\@tracklang@verbose{Testing tag '\CurrentTrackedTag'}%
\@tracklang@IfFileExists{#2\CurrentTrackedTag#3}%
{#4}%
{%
\let\CurrentTrackedTag\CurrentTrackedLanguage
\@tracklang@verbose{Testing tag '\CurrentTrackedTag'}%
\@tracklang@IfFileExists{#2\CurrentTrackedTag#3}{#4}{#5}%
}%
}%
}%
\fi
\fi
}%
}%
{#5}% unknown dialect

```

```
}
```

4.9 Resources

Provide some commands to make it easier for package authors to integrate the package code with `tracklang`. In the command definition describes below, $\langle pkgname \rangle$ indicates the initial part of the resource files that follow the naming convention, $\langle pkgname \rangle - \langle tag \rangle .ldf$. Typically this will match the base name of the package that uses those resource files, but this isn't compulsory. The argument $\langle tag \rangle$ is the current tracked tag obtained from `\IfTrackedLanguageFileExists`.

```
\TrackLangProvidesResource{ $\langle tag \rangle$ }[ $\langle version \rangle$ ]
```

```
\TrackLangProvidesResource
```

If `\ProvidesFile` exists, we can use that, otherwise we need to provide a generic version.

```
\ifx\ProvidesFile\undefined
```

Generic code uses simplistic method to grab the version details in the final optional argument. Since we're not using \LaTeX we don't have commands like `\@ifnextchar` available.

```
\long\def\TrackLangProvidesResource#1#2{%
  \ifx\TrackLangRequireDialectPrefix\undefined
    \@tracklang@err{Resources files using
      \string\TrackLangProvidesResource\space
      must be loaded with \string\TrackLangRequireDialect}%
  \fi
  \ifx#2[\relax
    \def\@tracklang@next{%
      \@tracklang@providesresource{\TrackLangRequireDialectPrefix-#1.ldf}#2%
    }
  \else
    \expandafter\xdef\csname ver@\TrackLangRequireDialectPrefix
      -#1.ldf\endcsname{%
      {%
        \newlinechar='\^^J
        \def\MessageBreak{^^J}%
        \message{^^JFile: \TrackLangRequireDialectPrefix-#1.ldf^^J}%
      }%
      \long\def\@tracklang@next{#2}%
    }%
  \fi
  \@tracklang@next
}
\def\@tracklang@providesresource#1[#2]{%
  \expandafter\xdef\csname ver@#1\endcsname{#2}%
  {%
    \newlinechar='\^^J
```

```

        \def\MessageBreak{^^J}%
        \message{^^JFile: #1 #2^^J}%
    }%
}
\else
LATEX code can simply use \ProvidesFile.
\def\TrackLangProvidesResource#1{%
  \ifx\TrackLangRequireDialectPrefix\undefined
    \@tracklang@err{Resources files using
      \string\TrackLangProvidesResource\space
      must be loaded with \string\TrackLangRequireDialect}%
  \fi
  \ProvidesFile{\TrackLangRequireDialectPrefix-#1.ldf}%
}
\fi

```

```
\TrackLangAddToHook{<code>}{<type>}
```

\TrackLangAddToHook

Within the resource files, a check is required for the language hook, where the hook type is given by *<type>*. For example, if *<type>* is `captions`, the for `babel`, this is `\captions<dialect>` (dialect obtained through `\CurrentTrackedDialect`) and for `polyglossia`, this is `\captions<language>` (language obtained through `\CurrentTrackedLanguage`). This command is not permitted outside resource files.

```
\def\TrackLangAddToHook{\noop@TrackLangAddToHook}
```

\noop@TrackLangAddToHook

```
\def\noop@TrackLangAddToHook#1#2{%
  \@tracklang@err{\string\TrackLangAddToHook\space
    only permitted within resource files}
}
```

\@TrackLangAddToHook

```
\def\@TrackLangAddToHook#1#2{%
babel check first.
  \@tracklang@ifundef{#2\CurrentTrackedDialect}%
  {%
Does the dialect label have a mapping?
  \IfTrackedDialectHasMapping{\CurrentTrackedDialect}%
  {%
Try the mapping label next.
  \edef\@tracklang@tmp{%
    \csname @tracklang@dialectmap@tohook@\CurrentTrackedDialect\endcsname}%
  \@tracklang@ifundef{#2\@tracklang@tmp}%
  {%

```


No captions hook. Try polyglossia.

```
\@tracklang@ifundef{#2\CurrentTrackedLanguage}%  
{%
```

No captions hook. Do nothing (it's possible no language package has been loaded).

```
\@tracklang@verbose{no hook found for \CurrentTrackedDialect}%  
}%  
{%  
\@tracklang@addtohook{#2}{\CurrentTrackedLanguage}{#1}%  
}%  
}%  
{%  
\@tracklang@addtohook{#2}{\@tracklang@tmp}{#1}%  
}%  
}%  
{%
```

polyglossia check next.

```
\@tracklang@ifundef{#2\CurrentTrackedLanguage}%  
{%
```

No captions hook.

```
\@tracklang@verbose{no hook found for \CurrentTrackedDialect}%  
}%  
{%  
\@tracklang@addtohook{#2}{\CurrentTrackedLanguage}{#1}%  
}%  
}%  
}%  
{%  
\@tracklang@addtohook{#2}{\CurrentTrackedDialect}{#1}%  
}%
```

Do the code now. (This is needed for cases such as the ngerman which defines `\captionsgerman` but calls it immediately rather than at the start of the document.)

```
#1%  
}
```

```
\@tracklang@addtohook{<type>}{<label>}{<code>}
```

`\@tracklang@addtohook`

```
\def\@tracklang@addtohook#1#2#3{%  
\expandafter\let\expandafter\@tracklang@hook\csname #1#2\endcsname  
\expandafter  
\gdef\csname#1#2\expandafter\endcsname\expandafter{\@tracklang@hook#3}%  
}
```

Since the captions hook is the most common, provide a shortcut.

```
\TrackLangAddToCaptions{<code>}
```

\TrackLangAddToCaptions

```
\def\TrackLangAddToCaptions#1{\TrackLangAddToHook{#1}{captions}}
```

```
\TrackLangRedefHook{<code>}{<type>}
```

\TrackLangRedefHook

Similar to \TrackLangAddToHook but redefines the hook rather than appending to it. This command is not permitted outside resource files.

```
\def\TrackLangRedefHook{\noop@TrackLangRedefHook}
```

\noop@TrackLangRedefHook

```
\def\noop@TrackLangRedefHook#1#2{%  
  \@tracklang@err{\string\TrackLangRedefHook\space  
  only permitted within resource files}  
}
```

\@TrackLangRedefHook

```
\def\@TrackLangRedefHook#1#2{%  
  babel check first.  
  \@tracklang@ifundef{#2\CurrentTrackedDialect}%  
  {%  
    Does the dialect label have a mapping?  
    \IfTrackedDialectHasMapping{\CurrentTrackedDialect}%  
    {%  
      Try the mapping label next.  
      \edef\@tracklang@tmp{%  
        \csname @tracklang@dialectmap@tohook@\CurrentTrackedDialect\endcsname}%  
        \@tracklang@ifundef{#2\@tracklang@tmp}%  
        {%  
          No captions hook. Try polyglossia.  
          \@tracklang@ifundef{#2\CurrentTrackedLanguage}%  
          {%  
            No captions hook. Do nothing (it's possible no language package has been  
            loaded).  
            \@tracklang@verbose{no hook found for \CurrentTrackedDialect}%  
            }%  
            {%  
              \@tracklang@redefhook{#2}{\CurrentTrackedLanguage}{#1}%  
            }%  
            }%  
            \@tracklang@redefhook{#2}{\@tracklang@tmp}{#1}%  
          }%  
          {%
```

polyglossia check next.

```
\@tracklang@ifundef{#2\CurrentTrackedLanguage}%  
{%
```

No captions hook.

```
\@tracklang@verbose{no hook found for \CurrentTrackedDialect}%  
}%  
{%  
\@tracklang@redefhook{#2}{\CurrentTrackedLanguage}{#1}%  
}%  
}%  
}%  
{%  
\@tracklang@redefhook{#2}{\CurrentTrackedDialect}{#1}%  
}%
```

Do the code now in case the hook has already been used.

```
#1%  
}
```

```
\@tracklang@redefhook{<type>}{<label>}{<code>}
```

\@tracklang@redefhook

```
\def\@tracklang@redefhook#1#2#3{%  
\expandafter\gdef\csname#1#2\endcsname{#3}%  
}
```

```
\SetTrackedDialectLabelMap{<tracklang-label>}{<hook-label>}
```

\SetTrackedDialectLabelMap

Define a mapping between a tracklang dialect label and the corresponding label used by the language hook. For example, `ngermanDE` is a recognised tracklang dialect label, but the closest babel equivalent is `ngerman`, so `ngermanDE` would need to be mapped to `ngerman` for the language hooks. The arguments are `<tracklang-label>` (the tracklang dialect label) and `<hook-label>` (the babel, polyglossia etc label).

```
\def\SetTrackedDialectLabelMap#1#2{%
```

Store the mapping that can obtain the hook label from the tracklang label (tracklang to hook).

```
\@tracklang@enamedef{@tracklang@dialectmap@tohook@#1}{#2}%
```

Store the mapping that can obtain the tracklang label from the hook label.

```
\@tracklang@enamedef{@tracklang@dialectmap@fromhook@#2}{#1}%  
}
```

```
\IfTrackedDialectHasMapping{<tracklang label>}{<true>}  
{<false>}
```

\IfTrackedDialectHasMapping

Test if the tracklang dialect label has been assigned a mapping to a language hook.

```
\def\IfTrackedDialectHasMapping#1#2#3{%
  \@tracklang@ifundef{@tracklang@dialectmap@tohook@#1}{#3}{#2}%
}
```

```
\IfHookHasMappingFromTrackedDialect{<hook label>}{<true>}
{<false>}
```

\HasMappingFromTrackedDialect

Tests if the language hook label has been assigned a mapping from a tracklang dialect label.

```
\def\IfHookHasMappingFromTrackedDialect#1#2#3{%
  \@tracklang@ifundef{@tracklang@dialectmap@fromhook@#1}{#3}{#2}%
}
```

```
\GetTrackedDialectToMapping{<tracklang label>}
```

\GetTrackedDialectToMapping

Gets the mapping for the given tracklang dialect label to a language hook label or the <label> itself if no mapping has been defined.

```
\def\GetTrackedDialectToMapping#1{%
  \@tracklang@ifundef{@tracklang@dialectmap@tohook@#1}{#1}%
  {\csname @tracklang@dialectmap@tohook@#1\endcsname}%
}
```

```
\GetTrackedDialectFromMapping{<language hook>}
```

\GetTrackedDialectFromMapping

Gets the reverse mapping from the given language hook to the tracklang label.

```
\def\GetTrackedDialectFromMapping#1{%
  \@tracklang@ifundef{@tracklang@dialectmap@fromhook@#1}{#1}%
  {\csname @tracklang@dialectmap@fromhook@#1\endcsname}%
}
```

```
\TrackLangRequireResource{<tag>}
```

\TrackLangRequireResource

```
\def\TrackLangRequireResource{\noop@TrackLangRequireResource}
```

\noop@TrackLangRequireResource

Default behaviour outside of resource files: generate an error and ignore arguments.

```
\def\noop@TrackLangRequireResource#1{%
  \@tracklang@err{\string\TrackLangRequireResource\space
  only permitted within resource files}
}
```

`\TrackLangRequireResource` Actual behaviour.

```
\def\TrackLangRequireResource#1{%
  \@tracklang@ifundef{ver@\TrackLangRequireDialectPrefix-#1.ldf}%
  {%
    \@tracklang@ifFileExists{\TrackLangRequireDialectPrefix-#1.ldf}%
    {%
      \input \TrackLangRequireDialectPrefix-#1.ldf
    }%
    {%
      \@tracklang@warn{No ‘\TrackLangRequireDialectPrefix’ support for
        language/region ‘#1’\MessageBreak
        (resource file ‘\TrackLangRequireDialectPrefix-#1.ldf’ not found)}%
    }%
  }%
}%
}
```

`\TrackLangRequireResourceOrDo{<tag>}{<resource loaded code>}{<resource already loaded code>}`

`\TrackLangRequireResourceOrDo`

Like `\TrackLangRequireResource` but also does *<resource loaded code>* if the resource file is loaded or *<resource already loaded code>* if the resource file has already been loaded.

```
\def\TrackLangRequireResourceOrDo{%
  \noop@TrackLangRequireResourceOrDo
}
```

`\TrackLangRequireResourceOrDo`

Default behaviour outside of resources files: generate an error and ignore arguments.

```
\def\noop@TrackLangRequireResourceOrDo#1#2#3{%
  \@tracklang@err{\string\TrackLangRequireResourceOrDo\space
    only permitted within resource files}
}
```

`\TrackLangRequireResourceOrDo`

Actual behaviour.

```
\def\TrackLangRequireResourceOrDo#1#2#3{%
  \@tracklang@ifundef{ver@\TrackLangRequireDialectPrefix-#1.ldf}%
  {%
    \@tracklang@ifFileExists{\TrackLangRequireDialectPrefix-#1.ldf}%
    {%
      \input \TrackLangRequireDialectPrefix-#1.ldf
      #2%
    }%
    {%
      \@tracklang@warn{No ‘\TrackLangRequireDialectPrefix’ support for
        language/region ‘#1’\MessageBreak
        (resource file ‘\TrackLangRequireDialectPrefix-#1.ldf’ not found)}%
    }%
  }%
}
```

```

    }%
  }%
  {#3}%
}

```

```
\TrackLangRequestResource{<tag>}{<not found code>}
```

\TrackLangRequestResource

Like \TrackLangRequireResource but does *<not found code>* if the file doesn't exist.

```
\def\TrackLangRequestResource{\noop@TrackLangRequestResource}
```

\noop@TrackLangRequestResource

Default behaviour outside of resource files: generate an error and ignore arguments.

```

\def\noop@TrackLangRequestResource#1#2{%
  \@tracklang@err{\string\TrackLangRequestResource\space
    only permitted within resource files}
}

```

\@TrackLangRequestResource

Actual behaviour.

```

\def\@TrackLangRequestResource#1#2{%
  \@tracklang@ifundef{ver@\TrackLangRequireDialectPrefix-#1.ldf}%
  {%
    \@tracklang@ifFileExists{\TrackLangRequireDialectPrefix-#1.ldf}%
    {%
      \input \TrackLangRequireDialectPrefix-#1.ldf
    }%
    {#2}%
  }%
  {}%
}

```

```
\TrackLangRequireDialect[<load code>]{<pkgname>}{<dialect>}
```

\TrackLangRequireDialect

```
\def\TrackLangRequireDialect{\@TrackLangRequireDialect}
```

\noop@TrackLangRequireDialect

No-op code.

```

\def\noop@TrackLangRequireDialect#1{%
  \ifx[#1\relax
    \def\@tracklang@next{\@noop@TrackLangRequireDialect[]}%
  \else
    \def\@tracklang@next{\@noop@TrackLangRequireDialect[]}{#1}}%
  \fi
  \@tracklang@next
}
\def\@noop@TrackLangRequireDialect[#1]#2#3{%
  \@tracklang@err{\string\TrackLangRequireDialect\space

```

```

    only permitted within resource files}
}

```

`\TrackLangRequireDialect` Actual code.

```

\def\@TrackLangRequireDialect#1{%
  \ifx[#1\relax
    \def\@tracklang@next{\@TrackLangRequireDialect[]}%
  \else
    \def\@tracklang@next{%
      \@TrackLangRequireDialect
        [\TrackLangRequireResource{\CurrentTrackedTag}]{#1}}%
    \fi
  \@tracklang@next
}
\def\@@TrackLangRequireDialect[#1]#2#3{%
  \def\TrackLangRequireDialectPrefix{#2}%
  \IfTrackedLanguageFileExists{#3}%
  {#2-}% prefix
  {.ldf}% suffix
  {%

```

Enable `\TrackLangRequireResource` etc so that they can only be used in resource files.

```

\let\TrackLangRequireResource\@TrackLangRequireResource
\let\TrackLangRequireResourceOrDo\@TrackLangRequireResourceOrDo
\let\TrackLangRequestResource\@TrackLangRequestResource

```

Disable `\TrackLangRequireDialect` so that it can't be used in resource files.

```

\let\TrackLangRequireDialect\noop@TrackLangRequireDialect

```

Enable `\TrackLangAddToHook`.

```

\let\TrackLangAddToHook\@TrackLangAddToHook

```

Load resource file using the code provided in the first argument.

```

#1%

```

Disable `\TrackLangRequireResource` etc.

```

\let\TrackLangRequireResource\noop@TrackLangRequireResource
\let\TrackLangRequireResourceOrDo\noop@TrackLangRequireResourceOrDo
\let\TrackLangRequestResource\noop@TrackLangRequestResource

```

Enable `\TrackLangRequireDialect`.

```

\let\TrackLangRequireDialect\@TrackLangRequireDialect

```

Disable `\TrackLangAddToHook`.

```

\let\TrackLangAddToHook\noop@TrackLangAddToHook
}%
{%
  \@tracklang@warn{No '#2' support for dialect '#3'}%
}%
}

```

Restore category code for @ if necessary.

```

\@tracklang@restore@at

```

5 Regions Generic Code (tracklang-region-codes.tex)

This is only loaded if a mapping is required between numeric and alphabetic region codes. (It would slow down the package loading to automatically load if not required.) Since this is loaded on the fly, we need to be careful about spurious spaces.

```
\ifnum\catcode'\@=11\relax
  \def\@tracklang@regions@restore@at{}%
\else
  \expandafter\edef\csname @tracklang@regions@restore@at\endcsname{%
    \noexpand\catcode'\noexpand\@=\number\catcode'\@ \relax
  }%
  \catcode'\@=11\relax
\fi
```

Check if this file has already been loaded:

```
\ifx\TrackLangRegionMap\undefined
\else
  \@tracklang@regions@restore@at
  \expandafter\endinput
\fi
```

Version info.

```
\expandafter\def\csname ver@tracklang-region-codes.tex\endcsname{%
2022/12/13 v1.6.1 (NLCT) Track Languages Regions}%
```

```
\TrackLangRegionMap{<numeric code>}{<alpha-2
code>}{<alpha-3 code>}
```

\TrackLangRegionMap

Define mapping.

```
\def\TrackLangRegionMap#1#2#3{%
  \@tracklang@enamedef{@tracklang@region@numtoalphaii@#1}{#2}%
  \@tracklang@enamedef{@tracklang@region@numtoalphaiii@#1}{#3}%
  \@tracklang@enamedef{@tracklang@region@alphaiitonum@#2}{#1}%
  \@tracklang@enamedef{@tracklang@region@alphaiiitonum@#3}{#1}%
  \@tracklang@enamedef{@tracklang@region@alphaiitoalphaiii@#2}{#3}%
  \@tracklang@enamedef{@tracklang@region@alphaiiitoalphaii@#3}{#2}%
}%
```

```
\TrackLangAlphaIIToNumericRegion{<alpha-2 code>}
```

\TrackLangAlphaIIToNumericRegion

```
\def\TrackLangAlphaIIToNumericRegion#1{%
  \@tracklang@nameuse{@tracklang@region@alphaiitonum@#1}%
}%
```


\TrackLangNumericToAlphaIIRegion

```
\TrackLangNumericToAlphaIIRegion{numeric code}
```

```
\def\TrackLangNumericToAlphaIIRegion#1{%  
  \@tracklang@nameuse{@tracklang@region@numtoalphaii@#1}%  
}%
```

\TrackLangIfKnownAlphaIIRegion

```
\TrackLangIfKnownAlphaIIRegion{alpha-2 code}{true}{false}
```

```
\def\TrackLangIfKnownAlphaIIRegion#1#2#3{%  
  \@tracklang@ifundef{@tracklang@region@alphaiitonum@#1}%  
  {#3}%  
  {#2}%  
}%
```

\TrackLangIfKnownNumericRegion

```
\TrackLangIfKnownNumericRegion{numeric code}{true}{false}
```

```
\def\TrackLangIfKnownNumericRegion#1#2#3{%  
  \@tracklang@ifundef{@tracklang@region@numtoalphaii@#1}%  
  {#3}%  
  {#2}%  
}%
```

\TrackLangAlphaIIIToNumericRegion

```
\TrackLangAlphaIIIToNumericRegion{alpha-3 code}
```

```
\def\TrackLangAlphaIIIToNumericRegion#1{%  
  \@tracklang@nameuse{@tracklang@region@alphaiiitonum@#1}%  
}%
```

\TrackLangNumericToAlphaIIIRegion

```
\TrackLangNumericToAlphaIIIRegion{numeric code}
```

```
\def\TrackLangNumericToAlphaIIIRegion#1{%  
  \@tracklang@nameuse{@tracklang@region@numtoalphaiii@#1}%  
}%
```

```
\TrackLangIfKnownAlphaIIIRegion{alpha-3
code}{true}{false}
```

```
ckLangIfKnownAlphaIIIRegion
```

```
\def\TrackLangIfKnownAlphaIIIRegion#1#2#3{%
  \@tracklang@ifundef{@tracklang@region@alphaiitonum@#1}%
  {#3}%
  {#2}%
}%
```

Define mappings.

```
\TrackLangRegionMap{004}{AF}{AFG}%
\TrackLangRegionMap{248}{AX}{ALA}%
\TrackLangRegionMap{008}{AL}{ALB}%
\TrackLangRegionMap{012}{DZ}{DZA}%
\TrackLangRegionMap{016}{AS}{ASM}%
\TrackLangRegionMap{020}{AD}{AND}%
\TrackLangRegionMap{024}{AO}{AGO}%
\TrackLangRegionMap{660}{AI}{AIA}%
\TrackLangRegionMap{010}{AQ}{ATA}%
\TrackLangRegionMap{028}{AG}{ATG}%
\TrackLangRegionMap{032}{AR}{ARG}%
\TrackLangRegionMap{051}{AM}{ARM}%
\TrackLangRegionMap{533}{AW}{ABW}%
\TrackLangRegionMap{036}{AU}{AUS}%
\TrackLangRegionMap{040}{AT}{AUT}%
\TrackLangRegionMap{031}{AZ}{AZE}%
\TrackLangRegionMap{044}{BS}{BHS}%
\TrackLangRegionMap{048}{BH}{BHR}%
\TrackLangRegionMap{050}{BD}{BGD}%
\TrackLangRegionMap{052}{BB}{BRB}%
\TrackLangRegionMap{112}{BY}{BLR}%
\TrackLangRegionMap{056}{BE}{BEL}%
\TrackLangRegionMap{084}{BZ}{BLZ}%
\TrackLangRegionMap{204}{BJ}{BEN}%
\TrackLangRegionMap{060}{BM}{BMU}%
\TrackLangRegionMap{064}{BT}{BTN}%
\TrackLangRegionMap{068}{BO}{BOL}%
\TrackLangRegionMap{535}{BQ}{BES}%
\TrackLangRegionMap{070}{BA}{BIH}%
\TrackLangRegionMap{072}{BW}{BWA}%
\TrackLangRegionMap{074}{BV}{BVT}%
\TrackLangRegionMap{076}{BR}{BRA}%
\TrackLangRegionMap{086}{IO}{IOT}%
\TrackLangRegionMap{096}{BN}{BRN}%
\TrackLangRegionMap{100}{BG}{BGR}%
\TrackLangRegionMap{854}{BF}{BFA}%
\TrackLangRegionMap{108}{BI}{BDI}%
```

\TrackLangRegionMap{132}{CV}{CPV}%
\TrackLangRegionMap{116}{KH}{KHM}%
\TrackLangRegionMap{120}{CM}{CMR}%
\TrackLangRegionMap{124}{CA}{CAN}%
\TrackLangRegionMap{136}{KY}{CYM}%
\TrackLangRegionMap{140}{CF}{CAF}%
\TrackLangRegionMap{148}{TD}{TCD}%
\TrackLangRegionMap{152}{CL}{CHL}%
\TrackLangRegionMap{156}{CN}{CHN}%
\TrackLangRegionMap{162}{CX}{CXR}%
\TrackLangRegionMap{166}{CC}{CCK}%
\TrackLangRegionMap{170}{CO}{COL}%
\TrackLangRegionMap{174}{KM}{COM}%
\TrackLangRegionMap{180}{CD}{COD}%
\TrackLangRegionMap{178}{CG}{COG}%
\TrackLangRegionMap{184}{CK}{COK}%
\TrackLangRegionMap{188}{CR}{CRI}%
\TrackLangRegionMap{384}{CI}{CIV}%
\TrackLangRegionMap{191}{HR}{HRV}%
\TrackLangRegionMap{192}{CU}{CUB}%
\TrackLangRegionMap{531}{CW}{CWF}%
\TrackLangRegionMap{196}{CY}{CYP}%
\TrackLangRegionMap{203}{CZ}{CZE}%
\TrackLangRegionMap{208}{DK}{DNK}%
\TrackLangRegionMap{262}{DJ}{DJI}%
\TrackLangRegionMap{212}{DM}{DMA}%
\TrackLangRegionMap{214}{DO}{DOM}%
\TrackLangRegionMap{218}{EC}{ECU}%
\TrackLangRegionMap{818}{EG}{EGY}%
\TrackLangRegionMap{222}{SV}{SLV}%
\TrackLangRegionMap{226}{GQ}{GNQ}%
\TrackLangRegionMap{232}{ER}{ERI}%
\TrackLangRegionMap{233}{EE}{EST}%
\TrackLangRegionMap{231}{ET}{ETH}%
\TrackLangRegionMap{238}{FK}{FLK}%
\TrackLangRegionMap{234}{FO}{FRO}%
\TrackLangRegionMap{242}{FJ}{FJI}%
\TrackLangRegionMap{246}{FI}{FIN}%
\TrackLangRegionMap{250}{FR}{FRA}%
\TrackLangRegionMap{254}{GF}{GUF}%
\TrackLangRegionMap{258}{PF}{PYF}%
\TrackLangRegionMap{260}{TF}{ATF}%
\TrackLangRegionMap{266}{GA}{GAB}%
\TrackLangRegionMap{270}{GM}{GMB}%
\TrackLangRegionMap{268}{GE}{GEO}%
\TrackLangRegionMap{276}{DE}{DEU}%
\TrackLangRegionMap{288}{GH}{GHA}%
\TrackLangRegionMap{292}{GI}{GIB}%
\TrackLangRegionMap{300}{GR}{GRC}%
\TrackLangRegionMap{304}{GL}{GRL}%

\TrackLangRegionMap{308}{GD}{GRD}%
 \TrackLangRegionMap{312}{GP}{GLP}%
 \TrackLangRegionMap{316}{GU}{GUM}%
 \TrackLangRegionMap{320}{GT}{GTM}%
 \TrackLangRegionMap{831}{GG}{GGY}%
 \TrackLangRegionMap{324}{GN}{GIN}%
 \TrackLangRegionMap{624}{GW}{GNB}%
 \TrackLangRegionMap{328}{GY}{GUY}%
 \TrackLangRegionMap{332}{HT}{HTI}%
 \TrackLangRegionMap{334}{HM}{HMD}%
 \TrackLangRegionMap{336}{VA}{VAT}%
 \TrackLangRegionMap{340}{HN}{HND}%
 \TrackLangRegionMap{344}{HK}{HKG}%
 \TrackLangRegionMap{348}{HU}{HUN}%
 \TrackLangRegionMap{352}{IS}{ISL}%
 \TrackLangRegionMap{356}{IN}{IND}%
 \TrackLangRegionMap{360}{ID}{IDN}%
 \TrackLangRegionMap{364}{IR}{IRN}%
 \TrackLangRegionMap{368}{IQ}{IRQ}%
 \TrackLangRegionMap{372}{IE}{IRL}%
 \TrackLangRegionMap{833}{IM}{IMN}%
 \TrackLangRegionMap{376}{IL}{ISR}%
 \TrackLangRegionMap{380}{IT}{ITA}%
 \TrackLangRegionMap{388}{JM}{JAM}%
 \TrackLangRegionMap{392}{JP}{JPN}%
 \TrackLangRegionMap{832}{JE}{JEY}%
 \TrackLangRegionMap{400}{JO}{JOR}%
 \TrackLangRegionMap{398}{KZ}{KAZ}%
 \TrackLangRegionMap{404}{KE}{KEN}%
 \TrackLangRegionMap{296}{KI}{KIR}%
 \TrackLangRegionMap{408}{KP}{PRK}%
 \TrackLangRegionMap{410}{KR}{KOR}%
 \TrackLangRegionMap{414}{KW}{KWT}%
 \TrackLangRegionMap{417}{KG}{KGZ}%
 \TrackLangRegionMap{418}{LA}{LAO}%
 \TrackLangRegionMap{428}{LV}{LVA}%
 \TrackLangRegionMap{422}{LB}{LBN}%
 \TrackLangRegionMap{426}{LS}{LSO}%
 \TrackLangRegionMap{430}{LR}{LBR}%
 \TrackLangRegionMap{434}{LY}{LBY}%
 \TrackLangRegionMap{438}{LI}{LIE}%
 \TrackLangRegionMap{440}{LT}{LTU}%
 \TrackLangRegionMap{442}{LU}{LUX}%
 \TrackLangRegionMap{446}{MO}{MAC}%
 \TrackLangRegionMap{807}{MK}{MKD}%
 \TrackLangRegionMap{450}{MG}{MDG}%
 \TrackLangRegionMap{454}{MW}{MWI}%
 \TrackLangRegionMap{458}{MY}{MYS}%
 \TrackLangRegionMap{462}{MV}{MDV}%
 \TrackLangRegionMap{466}{ML}{MLI}%

\TrackLangRegionMap{470}{MT}{MLT}%
\TrackLangRegionMap{584}{MH}{MHL}%
\TrackLangRegionMap{474}{MQ}{MTQ}%
\TrackLangRegionMap{478}{MR}{MRT}%
\TrackLangRegionMap{480}{MU}{MUS}%
\TrackLangRegionMap{175}{YT}{MYT}%
\TrackLangRegionMap{484}{MX}{MEX}%
\TrackLangRegionMap{583}{FM}{FSM}%
\TrackLangRegionMap{498}{MD}{MDA}%
\TrackLangRegionMap{492}{MC}{MCO}%
\TrackLangRegionMap{496}{MN}{MNG}%
\TrackLangRegionMap{499}{ME}{MNE}%
\TrackLangRegionMap{500}{MS}{MSR}%
\TrackLangRegionMap{504}{MA}{MAR}%
\TrackLangRegionMap{508}{MZ}{MOZ}%
\TrackLangRegionMap{104}{MM}{MMR}%
\TrackLangRegionMap{516}{NA}{NAM}%
\TrackLangRegionMap{520}{NR}{NRU}%
\TrackLangRegionMap{524}{NP}{NPL}%
\TrackLangRegionMap{528}{NL}{NLD}%
\TrackLangRegionMap{540}{NC}{NCL}%
\TrackLangRegionMap{554}{NZ}{NZL}%
\TrackLangRegionMap{558}{NI}{NIC}%
\TrackLangRegionMap{562}{NE}{NER}%
\TrackLangRegionMap{566}{NG}{NGA}%
\TrackLangRegionMap{570}{NU}{NIU}%
\TrackLangRegionMap{574}{NF}{NFK}%
\TrackLangRegionMap{580}{MP}{MNP}%
\TrackLangRegionMap{578}{NO}{NOR}%
\TrackLangRegionMap{512}{OM}{OMN}%
\TrackLangRegionMap{586}{PK}{PAK}%
\TrackLangRegionMap{585}{PW}{PLW}%
\TrackLangRegionMap{275}{PS}{PSE}%
\TrackLangRegionMap{591}{PA}{PAN}%
\TrackLangRegionMap{598}{PG}{PNG}%
\TrackLangRegionMap{600}{PY}{PRY}%
\TrackLangRegionMap{604}{PE}{PER}%
\TrackLangRegionMap{608}{PH}{PHL}%
\TrackLangRegionMap{612}{PN}{PCN}%
\TrackLangRegionMap{616}{PL}{POL}%
\TrackLangRegionMap{620}{PT}{PRT}%
\TrackLangRegionMap{630}{PR}{PRI}%
\TrackLangRegionMap{634}{QA}{QAT}%
\TrackLangRegionMap{638}{RE}{REU}%
\TrackLangRegionMap{642}{RO}{ROU}%
\TrackLangRegionMap{643}{RU}{RUS}%
\TrackLangRegionMap{646}{RW}{RWA}%
\TrackLangRegionMap{652}{BL}{BLM}%
\TrackLangRegionMap{654}{SH}{SHN}%
\TrackLangRegionMap{659}{KN}{KNA}%

\TrackLangRegionMap{662}{LC}{LCA}%
\TrackLangRegionMap{663}{MF}{MAF}%
\TrackLangRegionMap{666}{PM}{SPM}%
\TrackLangRegionMap{670}{VC}{VCT}%
\TrackLangRegionMap{882}{WS}{WSM}%
\TrackLangRegionMap{674}{SM}{SMR}%
\TrackLangRegionMap{678}{ST}{STP}%
\TrackLangRegionMap{682}{SA}{SAU}%
\TrackLangRegionMap{686}{SN}{SEN}%
\TrackLangRegionMap{688}{RS}{SRB}%
\TrackLangRegionMap{690}{SC}{SYC}%
\TrackLangRegionMap{694}{SL}{SLE}%
\TrackLangRegionMap{702}{SG}{SGP}%
\TrackLangRegionMap{534}{SX}{SXM}%
\TrackLangRegionMap{703}{SK}{SVK}%
\TrackLangRegionMap{705}{SI}{SVN}%
\TrackLangRegionMap{090}{SB}{SLB}%
\TrackLangRegionMap{706}{SO}{SOM}%
\TrackLangRegionMap{710}{ZA}{ZAF}%
\TrackLangRegionMap{239}{GS}{SGS}%
\TrackLangRegionMap{728}{SS}{SSD}%
\TrackLangRegionMap{724}{ES}{ESP}%
\TrackLangRegionMap{144}{LK}{LKA}%
\TrackLangRegionMap{729}{SD}{SDN}%
\TrackLangRegionMap{740}{SR}{SUR}%
\TrackLangRegionMap{744}{SJ}{SJM}%
\TrackLangRegionMap{748}{SZ}{SWZ}%
\TrackLangRegionMap{752}{SE}{SWE}%
\TrackLangRegionMap{756}{CH}{CHE}%
\TrackLangRegionMap{760}{SY}{SYR}%
\TrackLangRegionMap{158}{TW}{TWN}%
\TrackLangRegionMap{762}{TJ}{TJK}%
\TrackLangRegionMap{834}{TZ}{TZA}%
\TrackLangRegionMap{764}{TH}{THA}%
\TrackLangRegionMap{626}{TL}{TLS}%
\TrackLangRegionMap{768}{TG}{TGO}%
\TrackLangRegionMap{772}{TK}{TKL}%
\TrackLangRegionMap{776}{TO}{TON}%
\TrackLangRegionMap{780}{TT}{TTO}%
\TrackLangRegionMap{788}{TN}{TUN}%
\TrackLangRegionMap{792}{TR}{TUR}%
\TrackLangRegionMap{795}{TM}{TKM}%
\TrackLangRegionMap{796}{TC}{TCA}%
\TrackLangRegionMap{798}{TV}{TUV}%
\TrackLangRegionMap{800}{UG}{UGA}%
\TrackLangRegionMap{804}{UA}{UKR}%
\TrackLangRegionMap{784}{AE}{ARE}%
\TrackLangRegionMap{826}{GB}{GBR}%
\TrackLangRegionMap{581}{UM}{UMI}%
\TrackLangRegionMap{840}{US}{USA}%

```

\TrackLangRegionMap{858}{UY}{URY}%
\TrackLangRegionMap{860}{UZ}{UZB}%
\TrackLangRegionMap{548}{VU}{VUT}%
\TrackLangRegionMap{862}{VE}{VEN}%
\TrackLangRegionMap{704}{VN}{VNM}%
\TrackLangRegionMap{092}{VG}{VGB}%
\TrackLangRegionMap{850}{VI}{VIR}%
\TrackLangRegionMap{876}{WF}{WLF}%
\TrackLangRegionMap{732}{EH}{ESH}%
\TrackLangRegionMap{887}{YE}{YEM}%
\TrackLangRegionMap{894}{ZM}{ZMB}%
\TrackLangRegionMap{716}{ZW}{ZWE}%

\@tracklang@input@extra@region@files

  Restore category code of @.

\@tracklang@regions@restore@at

```

6 ISO 15924 Scripts L^AT_EX Package (tracklang-scripts.sty)

This is just a L^AT_EX package wrapper for the generic code in tracklang-scripts.tex.

```

\NeedsTeXFormat{LaTeX2e}
\ProvidesPackage{tracklang-scripts}[2022/12/13 v1.6.1 (NLCT) Track
Language Scripts (LaTeX)]
\RequirePackage{tracklang}
\input{tracklang-scripts}

```

7 ISO 15924 Scripts Generic Code (tracklang-scripts.tex)

Provides information about ISO 15924 scripts. Not automatically loaded.

```

\ifnum\catcode'\@=11\relax
  \def\@tracklang@scripts@restore@at{%
\else
  \expandafter\edef\csname @tracklang@scripts@restore@at\endcsname{%
    \noexpand\catcode'\noexpand\@=\number\catcode'\@ \relax
  }%
  \catcode'\@=11\relax
\fi

```

Check if this file has already been loaded:

```

\ifx\TrackLangScriptMap\undefined
\else
  \@tracklang@scripts@restore@at
  \expandafter\endinput
\fi

```

Version info.

```
\expandafter\def\csname ver@tracklang-scripts.tex\endcsname{%  
2022/12/13 v1.6.1 (NLCT) Track Languages Scripts (Generic)}%
```

```
\TrackLangScriptMap{<letter  
code>}{<number>}{<name>}{<direction>}{<parent>}
```

\TrackLangScriptMap

Define mapping. To avoid problems with encodings, only use ASCII characters in the arguments. The first argument is the four-letter ISO 15924 code. The second argument is the numeric code. The third argument is just intended for informational purposes. The fourth argument indicates the direction. This may be LR (left-to-right), RL (right-to-left), TB (top-to-bottom), *varies* or *inherited*. The *<parent>* argument is for the parent writing system, which may be left blank. (Currently, this is blank for all the mappings provided here, but the syntax has five arguments in case of future development.)

```
\def\TrackLangScriptMap#1#2#3#4#5{%
```

This user command is provided to make it easier to test the script using \ifx.

```
\@tracklang@namedef{TrackLangScript#1}{#1}%  
\@tracklang@namedef{@tracklang@script@numtoalpha@#2}{#1}%  
\@tracklang@namedef{@tracklang@script@alphatonum@#1}{#2}%  
\@tracklang@namedef{@tracklang@script@alphatname@#1}{#3}%  
\@tracklang@namedef{@tracklang@script@alphatodir@#1}{#4}%  
\ifx\relax#5\relax  
\else  
\@tracklang@namedef{@tracklang@script@parent@#1}{#5}%  
\fi  
}
```

```
\TrackLangScriptAlphaToNumeric{<alpha code>}
```

\TrackLangScriptAlphaToNumeric

```
\def\TrackLangScriptAlphaToNumeric#1{%  
\@tracklang@nameuse{@tracklang@script@alphatonum@#1}%  
}%
```

```
\TrackLangScriptIfKnownAlpha{<alpha  
code>}{<true>}{<false>}
```

\TrackLangScriptIfKnownAlpha

```
\def\TrackLangScriptIfKnownAlpha#1#2#3{%  
\@tracklang@ifundef{@tracklang@script@alphatonum@#1}%  
{#3}%  
{#2}%  
}%
```


`\TrackLangScriptNumericToAlpha`

```
\TrackLangScriptNumericToAlpha{numeric code}
```

```
\def\TrackLangScriptNumericToAlpha#1{%  
  \@tracklang@nameuse{@tracklang@script@numtoalpha@#1}%  
}%
```

`\TrackLangScriptIfKnownNumeric`

```
\TrackLangScriptIfKnownNumeric{numeric code}{true}{false}
```

```
\def\TrackLangScriptIfKnownNumeric#1#2#3{%  
  \@tracklang@ifundef{@tracklang@script@numtoalpha@#1}%  
  {#3}%  
  {#2}%  
}%
```

`\TrackLangScriptAlphaToName`

```
\TrackLangScriptAlphaToName{alpha code}
```

```
\def\TrackLangScriptAlphaToName#1{%  
  \@tracklang@nameuse{@tracklang@script@alphatname@#1}%  
}%
```

`\TrackLangScriptAlphaToDir`

```
\TrackLangScriptAlphaToDir{alpha code}
```

```
\def\TrackLangScriptAlphaToDir#1{%  
  \@tracklang@nameuse{@tracklang@script@alphatodir@#1}%  
}%
```

I wasn't sure whether or not to implement a parent, but it's here if required. Unlike the other elements above, there's also a command to set this field.

`\TrackLangScriptSetParent`

```
\TrackLangScriptSetParent{alpha code}{parent alpha code}
```

```
\def\TrackLangScriptSetParent#1#2{%  
  \@tracklang@namedef{@tracklang@script@parent@#1}{#2}%  
}%
```

\TrackLangScriptGetParent

```
\TrackLangScriptGetParent{<alpha code>}
```

```
\def\TrackLangScriptGetParent#1{%
  \@tracklang@nameuse{@tracklang@script@parent@#1}%
}%
```

\TrackLangScriptIfHasParent

```
\TrackLangScriptIfHasParent{<alpha
code>}{<true>}{<false>}
```

```
\def\TrackLangScriptIfHasParent#1#2#3{%
  \@tracklang@ifundef{@tracklang@script@parent@#1}%
  {#3}%
  {#2}%
}%
```

Define mappings. The parent information is currently missing.

```
\TrackLangScriptMap{Adlm}{166}{Adlam}{RL}{}%
\TrackLangScriptMap{Afak}{439}{Afaka}{varies}{}%
\TrackLangScriptMap{Aghb}{239}{Caucasian Albanian}{LR}{}%
\TrackLangScriptMap{Ahom}{338}{Ahom, Tai Ahom}{LR}{}%
\TrackLangScriptMap{Arab}{160}{Arabic}{RL}{}%
\TrackLangScriptMap{Aran}{161}{Arabic (Nastaliq variant)}{RL}{}%
\TrackLangScriptMap{Armi}{124}{Imperial Aramaic}{RL}{}%
\TrackLangScriptMap{Armn}{230}{Armenian}{LR}{}%
\TrackLangScriptMap{Avst}{134}{Avestan}{RL}{}%
\TrackLangScriptMap{Bali}{360}{Balinese}{LR}{}%
\TrackLangScriptMap{Bamu}{435}{Bamum}{LR}{}%
\TrackLangScriptMap{Bass}{259}{Bassa Vah}{LR}{}%
\TrackLangScriptMap{Batk}{365}{Batak}{LR}{}%
\TrackLangScriptMap{Beng}{334}{Bhaiksuki}{LR}{}%
\TrackLangScriptMap{Blis}{550}{Blissymbols}{varies}{}%
\TrackLangScriptMap{Bopo}{285}{Bopomofo}{LR}{}%
\TrackLangScriptMap{Brah}{300}{Brahmi}{LR}{}%
\TrackLangScriptMap{Brai}{570}{Braille}{LR}{}%
\TrackLangScriptMap{Bugi}{367}{Buginese}{LR}{}%
\TrackLangScriptMap{Buhd}{372}{Buhid}{LR}{}%
\TrackLangScriptMap{Cakm}{349}{Chakma}{LR}{}%
\TrackLangScriptMap{Cans}{440}{Unified Canadian Aboriginal Syllabics}{LR}{}%
\TrackLangScriptMap{Cari}{201}{Carian}{LR}{}%
\TrackLangScriptMap{Cham}{358}{Cham}{LR}{}%
\TrackLangScriptMap{Cher}{445}{Cherokee}{LR}{}%
\TrackLangScriptMap{Cirt}{291}{Cirith}{varies}{}%
\TrackLangScriptMap{Copt}{204}{Coptic}{LR}{}%
\TrackLangScriptMap{Cprt}{403}{Cypriot}{RL}{}%
\TrackLangScriptMap{Cyrl}{220}{Cyrillic}{LR}{}%
```

\TrackLangScriptMap{Cyr}{221}{Cyrillic (Old Church Slavonic variant)}{varies}{}%
\TrackLangScriptMap{Deva}{315}{Devanagari (Nagari)}{LR}{}%
\TrackLangScriptMap{Dsrt}{250}{Deseret (Mormon)}{LR}{}%
\TrackLangScriptMap{Dupl}{755}{Duployan shorthand, Duployan stenography}{LR}{}%
\TrackLangScriptMap{Egyd}{070}{Egyptian demotic}{RL}{}%
\TrackLangScriptMap{Egyh}{060}{Egyptian hieratic}{RL}{}%
\TrackLangScriptMap{Egyp}{050}{Egyptian hieroglyphs}{LR}{}%
\TrackLangScriptMap{Elba}{226}{Elbasan}{LR}{}%
\TrackLangScriptMap{Ethi}{430}{Ethiopic (Ge'ez)}{LR}{}%
\TrackLangScriptMap{Geok}{241}{Khutsuri (Asomtavruli and Nuskhuri)}{LR}{}%
\TrackLangScriptMap{Geor}{240}{Georgian (Mkhedruli)}{LR}{}%
\TrackLangScriptMap{Glag}{225}{Glagolitic}{LR}{}%
\TrackLangScriptMap{Goth}{206}{Gothic}{LR}{}%
\TrackLangScriptMap{Gran}{343}{Grantha}{LR}{}%
\TrackLangScriptMap{Grek}{200}{Greek}{LR}{}%
\TrackLangScriptMap{Gujr}{320}{Gujarati}{LR}{}%
\TrackLangScriptMap{Guru}{310}{Gurmukhi}{LR}{}%
\TrackLangScriptMap{Hanb}{503}{Han with Bopomofo (alias for Han + Bopomofo)}{LR}{}%
\TrackLangScriptMap{Hang}{286}{Hangul}{LR}{}%
\TrackLangScriptMap{Hani}{500}{Han (Hanzi, Kanji, Hanja)}{LR}{}%
\TrackLangScriptMap{Hano}{371}{Hanunoo}{LR}{}%
\TrackLangScriptMap{Hans}{501}{Han (Simplified variant)}{varies}{}%
\TrackLangScriptMap{Hant}{502}{Han (Traditional variant)}{varies}{}%
\TrackLangScriptMap{Hatr}{127}{Hatran}{RL}{}%
\TrackLangScriptMap{Hebr}{125}{Hebrew}{RL}{}%
\TrackLangScriptMap{Hira}{410}{Hiragana}{LR}{}%
\TrackLangScriptMap{Hluw}{080}{Anatolian Hieroglyphs (Luwian Hieroglyphs, Hittite Hieroglyphs)}{LR}{}%
\TrackLangScriptMap{Hmg}{450}{Pahawh Hmong}{LR}{}%
\TrackLangScriptMap{Hrkt}{412}{Japanese syllabaries (alias for Hiragana + Katakana)}{varies}{}%
\TrackLangScriptMap{Hung}{176}{Old Hungarian (Hungarian Runic)}{RL}{}%
\TrackLangScriptMap{Inds}{610}{Indus (Harappan)}{RL}{}%
\TrackLangScriptMap{Ital}{210}{Old Italic (Etruscan, Oscan, etc.)}{LR}{}%
\TrackLangScriptMap{Jamo}{284}{Jamo (alias for Jamo subset of Hangul)}{LR}{}%
\TrackLangScriptMap{Java}{361}{Javanese}{LR}{}%
\TrackLangScriptMap{Jpan}{413}{Japanese (alias for Han + Hiragana + Katakana)}{varies}{}%
\TrackLangScriptMap{Jurc}{510}{Jurchen}{LR}{}%
\TrackLangScriptMap{Kali}{357}{Kayah Li}{LR}{}%
\TrackLangScriptMap{Kana}{411}{Katakana}{LR}{}%
\TrackLangScriptMap{Khar}{305}{Kharoshthi}{RL}{}%
\TrackLangScriptMap{Khmr}{355}{Khmer}{LR}{}%
\TrackLangScriptMap{Khoj}{322}{Khojki}{LR}{}%
\TrackLangScriptMap{Kitl}{505}{Khitan large script}{LR}{}%
\TrackLangScriptMap{Kits}{288}{Khitan small script}{TB}{}%
\TrackLangScriptMap{Knda}{345}{Kannada}{LR}{}%
\TrackLangScriptMap{Kore}{287}{Korean (alias for Hangul + Han)}{LR}{}%
\TrackLangScriptMap{Kpel}{436}{Kpelle}{LR}{}%
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\TrackLangScriptMap{Lana}{351}{Tai Tham (Lanna)}{LR}{}%
\TrackLangScriptMap{Laoo}{356}{Lao}{LR}{}%
\TrackLangScriptMap{Latf}{217}{Latin (Fraktur variant)}{varies}{}%

\TrackLangScriptMap{Latg}{216}{Latin (Gaelic variant)}{LR}{}%
\TrackLangScriptMap{Latn}{215}{Latin}{LR}{}%
\TrackLangScriptMap{Leke}{364}{Leke}{LR}{}%
\TrackLangScriptMap{Lepc}{335}{Lepcha}{LR}{}%
\TrackLangScriptMap{Limb}{336}{Limbu}{LR}{}%
\TrackLangScriptMap{Lina}{400}{Linear A}{LR}{}%
\TrackLangScriptMap{Linb}{401}{Linear B}{LR}{}%
\TrackLangScriptMap{Lisu}{399}{Lisu (Fraser)}{LR}{}%
\TrackLangScriptMap{Loma}{437}{Loma}{LR}{}%
\TrackLangScriptMap{Lyci}{202}{Lycian}{LR}{}%
\TrackLangScriptMap{Lydi}{116}{Lydian}{RL}{}%
\TrackLangScriptMap{Mahj}{314}{Mahajani}{LR}{}%
\TrackLangScriptMap{Mand}{140}{Mandaic, Mandaean}{RL}{}%
\TrackLangScriptMap{Mani}{139}{Manichaean}{RL}{}%
\TrackLangScriptMap{Marc}{332}{Marchen}{LR}{}%
\TrackLangScriptMap{Maya}{090}{Mayan hieroglyphs}{varies}{}%
\TrackLangScriptMap{Mend}{438}{Mende Kikakui}{RL}{}%
\TrackLangScriptMap{Merc}{101}{Meroitic Cursive}{RL}{}%
\TrackLangScriptMap{Mero}{100}{Meroitic Hieroglyphs}{RL}{}%
\TrackLangScriptMap{Mlym}{347}{Malayalam}{LR}{}%
\TrackLangScriptMap{Modi}{324}{Modi}{LR}{}%
\TrackLangScriptMap{Mong}{145}{Mongolian}{TB}{}%
\TrackLangScriptMap{Moon}{218}{Moon (Moon code, Moon script, Moon type)}{varies}{}%
\TrackLangScriptMap{Mroo}{199}{Mro, Mru}{LR}{}%
\TrackLangScriptMap{Mtei}{337}{Meitei Mayek (Meithei, Meetei)}{LR}{}%
\TrackLangScriptMap{Mult}{323}{Multani}{LR}{}%
\TrackLangScriptMap{Mymr}{350}{Myanmar (Burmese)}{LR}{}%
\TrackLangScriptMap{Narb}{106}{Old North Arabian (Ancient North Arabian)}{RL}{}%
\TrackLangScriptMap{Nbat}{159}{Nabataean}{RL}{}%
\TrackLangScriptMap{Newa}{333}{Newa, Newar, Newari}{LR}{}%
\TrackLangScriptMap{Nkgb}{420}{Nakhi Geba}{LR}{}%
\TrackLangScriptMap{Nkoo}{165}{N'Ko}{RL}{}%
\TrackLangScriptMap{Nshu}{499}{Nushu}{LR}{}%
\TrackLangScriptMap{Ogam}{212}{Ogham}{varies}{}%
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\TrackLangScriptMap{Orkh}{175}{Old Turkic, Orkhon Runic}{RL}{}%
\TrackLangScriptMap{Orya}{327}{Oriya}{LR}{}%
\TrackLangScriptMap{Osge}{219}{Osage}{LR}{}%
\TrackLangScriptMap{Osma}{260}{Osmanya}{LR}{}%
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\TrackLangScriptMap{Pauc}{263}{Pau Cin Hau}{LR}{}%
\TrackLangScriptMap{Perm}{227}{Old Permic}{LR}{}%
\TrackLangScriptMap{Phag}{331}{Phags-pa}{TB}{}%
\TrackLangScriptMap{Phli}{131}{Inscriptional Pahlavi}{RL}{}%
\TrackLangScriptMap{Phlp}{132}{Psalter Pahlavi}{RL}{}%
\TrackLangScriptMap{Phlv}{133}{Book Pahlavi}{RL}{}%
\TrackLangScriptMap{Phnx}{115}{Phoenician}{RL}{}%
\TrackLangScriptMap{Piqd}{293}{Klingon (KLI plqAD)}{LR}{}%
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\TrackLangScriptMap{Qaai}{908}{Private use}{varies}{}%
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\TrackLangScriptMap{Runr}{211}{Runic}{LR}{}%
\TrackLangScriptMap{Samr}{123}{Samaritan}{RL}{}%
\TrackLangScriptMap{Sara}{292}{Sarati}{varies}{}%
\TrackLangScriptMap{Sarb}{105}{Old South Arabian}{RL}{}%
\TrackLangScriptMap{Saur}{344}{Saurashtra}{LR}{}%
\TrackLangScriptMap{Sgnw}{095}{SignWriting}{TB}{}%
\TrackLangScriptMap{Shaw}{281}{Shavian (Shaw)}{LR}{}%
\TrackLangScriptMap{Shrd}{319}{Sharada}{LR}{}%
\TrackLangScriptMap{Sidd}{302}{Siddham}{LR}{}%
\TrackLangScriptMap{Sind}{318}{Khudawadi, Sindhi}{LR}{}%
\TrackLangScriptMap{Sinh}{348}{Sinhala}{LR}{}%
\TrackLangScriptMap{Sora}{398}{Sora Sompeng}{LR}{}%
\TrackLangScriptMap{Sund}{362}{Sundanese}{LR}{}%
\TrackLangScriptMap{Sylo}{316}{Syloti Nagri}{LR}{}%
\TrackLangScriptMap{Sycr}{135}{Syriac}{RL}{}%
\TrackLangScriptMap{Syre}{138}{Syriac (Estrangelo variant)}{RL}{}%
\TrackLangScriptMap{Syrj}{137}{Syriac (Western variant)}{RL}{}%
\TrackLangScriptMap{Syrn}{136}{Syriac (Eastern variant)}{RL}{}%
\TrackLangScriptMap{Tagb}{373}{Tagbanwa}{LR}{}%
\TrackLangScriptMap{Takr}{321}{Takri}{LR}{}%
\TrackLangScriptMap{Tale}{353}{Tai Le}{LR}{}%
\TrackLangScriptMap{Talu}{354}{New Tai Lue}{LR}{}%
\TrackLangScriptMap{Taml}{346}{Tamil}{LR}{}%
\TrackLangScriptMap{Tang}{520}{Tangut}{LR}{}%
\TrackLangScriptMap{Tavt}{359}{Tai Viet}{LR}{}%
\TrackLangScriptMap{Telu}{340}{Telugu}{LR}{}%
\TrackLangScriptMap{Teng}{290}{Tengwar}{LR}{}%
\TrackLangScriptMap{Tfng}{120}{Tifinagh (Berber)}{LR}{}%
\TrackLangScriptMap{Tglg}{370}{Tagalog (Baybayin, Alibata)}{LR}{}%
\TrackLangScriptMap{Thaa}{170}{Thaana}{RL}{}%
\TrackLangScriptMap{Thai}{352}{Thai}{LR}{}%
\TrackLangScriptMap{Tibt}{330}{Tibetan}{LR}{}%
\TrackLangScriptMap{Tirh}{326}{Tirhuta}{LR}{}%
\TrackLangScriptMap{Ugar}{040}{Ugaritic}{LR}{}%
\TrackLangScriptMap{Vaii}{470}{Vai}{LR}{}%
\TrackLangScriptMap{Visp}{280}{Visible Speech}{LR}{}%
\TrackLangScriptMap{Wara}{262}{Warang Citi (Varang Kshiti)}{LR}{}%
\TrackLangScriptMap{Wole}{480}{Woleai}{RL}{}%
\TrackLangScriptMap{Xpeo}{030}{Old Persian}{LR}{}%
\TrackLangScriptMap{Xsux}{020}{Cuneiform, Sumero-Akkadian}{LR}{}%
\TrackLangScriptMap{Yiii}{460}{Yi}{LR}{}%
\TrackLangScriptMap{Zinh}{994}{Inherited script}{inherited}{}%
\TrackLangScriptMap{Zmth}{995}{Mathematical notation}{LR}{}%
\TrackLangScriptMap{Zsym}{996}{Symbols}{varies}{}%
\TrackLangScriptMap{Zsye}{993}{Symbols (emoji variant)}{varies}{}%

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\TrackLangScriptMap{Zxxx}{997}{Unwritten documents}{varies}{}%  
\TrackLangScriptMap{Zyyy}{998}{Undetermined script}{varies}{}%  
\TrackLangScriptMap{Zzzz}{999}{Uncoded script}{varies}{}%
```

Load additional script files.

```
\@tracklang@input@extra@script@files  
  Restore category code of @.  
\@tracklang@scripts@restore@at
```

Change History

1.0 – 2014-09-29			
General: Initial release	2		
1.1 – 2014-11-21			
\@tracklang@add@argentinespanish:			
new	76	\@tracklang@add@es-PE: new	81
\@tracklang@add@bolivianspanish:		\@tracklang@add@es-PR: new	82
new	77	\@tracklang@add@es-PY: new	81
\@tracklang@add@chilianspanish:		\@tracklang@add@es-SV: new	81
new	77	\@tracklang@add@es-UY: new	82
\@tracklang@add@columbianspanish:		\@tracklang@add@es-VE: new	82
new	77	\@tracklang@add@fr-BE: new	79
\@tracklang@add@costaricanspanish:		\@tracklang@add@fr-CA: new	79
new	77	\@tracklang@add@fr-CH: new	82
\@tracklang@add@cubanspanish:		\@tracklang@add@fr-FR: new	79
new	77	\@tracklang@add@fr-GG: new	80
\@tracklang@add@de-BE: new	80	\@tracklang@add@fr-JE: new	80
\@tracklang@add@de-CH: new	82	\@tracklang@add@france: new	73
\@tracklang@add@de-DE: new	80	\@tracklang@add@guatemalanspanish:	
\@tracklang@add@dominicanspanish:		new	77
new	77	\@tracklang@add@guernseyenglish:	
\@tracklang@add@ecudorianspanish:		new	75
new	77	\@tracklang@add@guernseyfrench:	
\@tracklang@add@elsalvadorspanish:		new	75
new	77	\@tracklang@add@honduranspanish:	
\@tracklang@add@en-AU: new	79	new	77
\@tracklang@add@en-CA: new	79	\@tracklang@add@isleofmanenglish:	
\@tracklang@add@en-GB: new	79	new	75
\@tracklang@add@en-GG: new	80	\@tracklang@add@it-CH: new	82
\@tracklang@add@en-IM: new	80	\@tracklang@add@it-HR: new	79
\@tracklang@add@en-JE: new	80	\@tracklang@add@it-IT: new	80
\@tracklang@add@en-MT: new	80	\@tracklang@add@it-SI: new	80
\@tracklang@add@en-NZ: new	79	\@tracklang@add@it-SM: new	80
\@tracklang@add@en-US: new	79	\@tracklang@add@it-VA: new	82
\@tracklang@add@es-AR: new	81	\@tracklang@add@jerseyenglish:	
\@tracklang@add@es-BO: new	81	new	75
\@tracklang@add@es-CL: new	81	\@tracklang@add@jerseyfrench:	
\@tracklang@add@es-CO: new	81	new	75
\@tracklang@add@es-CR: new	81	\@tracklang@add@maltaenglish:	
\@tracklang@add@es-CU: new	81	new	75
\@tracklang@add@es-DO: new	81	\@tracklang@add@maltamaltese:	
\@tracklang@add@es-EC: new	81	new	75
\@tracklang@add@es-ES: new	80	\@tracklang@add@maltese: new	63
\@tracklang@add@es-GT: new	81	\@tracklang@add@manx: new	63
\@tracklang@add@es-HN: new	81	\@tracklang@add@mexicanspanish:	
\@tracklang@add@es-MX: new	81	new	77
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\@tracklang@add@japanese: new	61	new	64
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