

The ifxetex package

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1 User documentation

This package provides a way to check if a document is being processed with X_YTeX. It may be loaded with

```
\usepackage{ifxetex} for LATEX, or
\input ifxetex.sty  for Plain TEX.
```

This defines the conditional `\ifxetex` that is used in the standard way:

```
\ifxetex
  <material for XYTeX>
\else
  <material not for XYTeX>
\fi
```

Users of L^AT_EX's ifthen package can also use it as `\boolean{xetex}`:

```
\ifthenelse{ \boolean{xetex} }{%
  <material for XYTeX>
}{%
  <material not for XYTeX>
}
```

Finally, this package also defines the `\RequireXeTeX` command, which tests for X_YTeX use and throws an error if a different engine is being used. This is used for packages like `fontspec` that take advantage of X_YTeX's new features and cannot be used otherwise.

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2 Implementation

Ensure loading a single time only

```
1 \csname_ifxetexloaded\endcsname
2 \let\ifxetexloaded\endinput
```

Declare ourselves to \LaTeX

```
3 \expandafter\ifx\csname_ProvidesPackage\endcsname\relax\else
4   \ProvidesPackage{ifxetex}
5   [2009/01/23_v0.5_Provides_ifxetex_conditional]
6 \fi
```

For \XeTeX -exclusive packages

```
\RequireXeTeX 7 \def\RequireXeTeX{%
8   \ifxetex\else
9     \begingroup
10      \errorcontextlines=-1\relax
11      \newlinechar=10\relax
12      \errmessage{^^J
13        *****^^J
14        *XeTeX_is_required_to_compile_this_document.^^J
15        *Sorry!^^J
16        *****}%
17    \endgroup
18  \fi}
```

Abort if `\ifxetex` is already defined (assume that it has already been set correctly)¹

```
19 \expandafter\ifx\csname_ifxetex\endcsname\relax\else
20   \expandafter\endinput
21 \fi
```

Create and set `\ifxetex` accordingly

```
\ifxetex 22 \newif\ifxetex
23 \expandafter\ifx\csname_XeTeXrevision\endcsname\relax
24   \xetexfalse
25 \else
26   \xetextrue
27 \fi
```

`<eof>`

¹Thanks to *Dan Luecking* for suggesting this.