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$_{\mathrm{E}}$T$_{\mathrm{E}}$X. 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 XᴇTEX⟩
\else
    ⟨material not for XᴇTEX⟩
\fi
```

Users of LaTeX's **ifthen** package can also use it as `\boolean{xetex}`:

```
\ifthenelse{ \boolean{xetex} }{%
    ⟨material for XᴇTEX⟩
}{%
    ⟨material not for XᴇTEX⟩
}
```

Finally, this package also defines the `\RequireXeTeX` command, which tests for
X$_{\mathrm{E}}$T$_{\mathrm{E}}$X use and throws an error if a different engine is being used. This is used for
packages like **fontspec** that take advantage of X$_{\mathrm{E}}$T$_{\mathrm{E}}$X'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 \begingroup\expandafter\expandafter\expandafter\endgroup
4 \expandafter\ifx\csname␣ProvidesPackage\endcsname\relax\else
5   \ProvidesPackage{ifxetex}
6     [2010/09/12␣v0.6␣Provides␣ifxetex␣conditional]
7 \fi
```

For X͟ETEX-exclusive packages.

\RequireXeTeX
```
8  \def\RequireXeTeX{%
9    \ifxetex\else
10     \begingroup
11       \errorcontextlines=-1\relax
12       \newlinechar=10\relax
13       \errmessage{^^J
14       ********************************************^^J
15       *␣XeTeX␣is␣required␣to␣compile␣this␣document.^^J
16       *␣Sorry!^^J
17       ********************************************}%
18     \endgroup
19   \fi}
```

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

```
20 \expandafter\ifx\csname␣ifxetex\endcsname\relax\else
21   \expandafter\endinput
22 \fi
```

Create and set \ifxetex accordingly.

\ifxetex
```
23 \newif\ifxetex
24 \begingroup\expandafter\expandafter\expandafter\endgroup
25 \expandafter\ifx\csname␣XeTeXrevision\endcsname\relax
26   \xetexfalse
```

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[1]Thanks to *Dan Luecking* for suggesting this.

```
27 \else
28   \xetextrue
29 \fi
```

⟨eof⟩