The xe-inputenc override package for XƎTEX

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1   Introduction

When new users migrate from pdfLATEX to XƎLATEX, some are often confused by the fact that the `inputenc` package is no longer needed; it does seem somewhat intuitive that the correct incantation should now be `\usepackage[utf8]{inputenc}`. Unfortunately, this is not the case due to differences between the way the 8-bit TEX and pdfTEX engines parse unicode files in comparison to XƎTEX.

It seems useful, then, to provide an 'override package' for `inputenc` that interprets the wishes of the user without adding the code to break XƎTEX's attempted reading of the input file.

In this first hasty release of the package, any package options given to the override `xe-inputenc` are passed directly to XƎTEX's low-level commands `\XeTeXinputencoding` and `\XeTeXdefaultencoding`. These two commands set the encoding for subsequent reading of, respectively, the current file and all future files read.

An exhaustive list of input encodings supported by XƎTEX is shown here: `http://www.iana.org/assignments/character-sets`. Luckily, most or all of the encoding names supported by the traditional `inputenc` share their names here. TODO: provide a complete and correct mapping from `inputenc`'s encoding options to XƎTEX's.

File I

Implementation

This is the package implementation.

Do the right thing and indicate we've overriden LaTeX's inputenc:

```
1  \typeout{%
2    Loading a XeTeX-specific package to
3    override LaTeX's inputenc package.}
```

Just to be safe:

```
4  \RequirePackage{ifxetex}
5  \RequireXeTeX
```

Pass the package option to XƎTEX's input encoding primitives:

```
6  \DeclareOption*{%
7    \PackageWarning{xe-inputenc}{^^J\space\space
8      XeTeX input encoding set to '\CurrentOption' for the rest of^^J%
9      \space\space file '\jobname'.^^J\space\space
10     All subsequent files to be read will be interpreted as UTF8.^^J
11     This message occured}%
12   \XeTeXinputencoding "\CurrentOption"}
```

It might be better not to execute anything, but for now just do `utf8` by default:

```
13 \ExecuteOptions{utf8}
14 \ProcessOptions
```

And that's it!