wxWidgets for DirectFB installation

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IMPORTANT NOTE:

wxDFB is currently incomplete and some parts of the wxWidgets library

don't yet compile and must be disabled during configuration. In particular,

the coverage of wxDC API is limited.

Dependencies

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wxDFB requires the DirectFB library (http://www.directfb.org), which must

be installed before compiling wxDFB.

Compiling

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Compilation is done in the standard Unix fashion, using configure and make.

Please refer to e.g. wxGTK's install.txt for details if you are unfamiliar

with configure.

When configuring, use the --with-directfb option instead of e.g. --with-gtk

to specify that the wxDFB port should be built. You may also need to disable

wxUniv themes that don't work in wxDFB yet (alternatively you can set the

WXTHEME environment variable to "mono"):

$ ./configure --with-directfb --with-themes=mono

$ make

Configuring fonts

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DirectFB doesn't have native fonts configuration mechanism (such as

fontconfig used by GTK+) and so wxDFB implements a simple configuration

mechanism itself.

No fonts are installed and configured by "make install", you have to manually

configure fonts after you install the library.

wxDFB looks the fonts up in directories specified in the WXDFB\_FONTPATH

environment variable (separated with :, similarly to the PATH variable). If

the variable is not set, $prefix/share/wx/fonts directory is used. All

subdirectories of the directories on the path are scanned for FontsIndex

files. These files are parsed and fonts defined in them are added to the fonts

list.

The FontsIndex file is standard wxFileConfig file text file. Each toplevel

group specifies one font bundle, font's name is the name of group. Group's

entries look like this:

[Font Name]

# font files (at least one of them must be present):

Regular=RegularFaceFile.ttf

Italic=ItalicFaceFile.ttf

Bold=BoldFaceFile.ttf

BoldItalic=BoldItalicFaceFile.ttf

# optional tag indicating this font is fixed-with (default is false):

IsFixed=1

Additionally, there may be DefaultXXX entries at the toplevel for every family

XXX and a Default entry that is shortcut for setting all families' default,

their value is name of the default font:

# optional tags indicating the default font for given family:

DefaultDecorative=Font Name

DefaultRoman=Font Name

DefaultScript=Font Name

DefaultSwiss=Font Name

DefaultModern=Font Name

DefaultTeletype=Font Name

# indicate the font that is default for all families (optional):

Default=Font Name

Any font formats supported by DirectFB (which typically includes formats

supported by the FreeType library) can be used.

Bug reports

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Please send bug reports with a description of your environment,

compiler and the error message(s) to the developers mailing list at:

https://www.wxwidgets.org/support/mailing-lists/