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wxWidgets 3.0 Change Log

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Note: This file covers the changes up to and including 3.0 series, please see

docs/changes.txt for the changes in the later versions.

INCOMPATIBLE CHANGES SINCE 2.8.x

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Notice that these changes are described in more details in

the "Changes Since wxWidgets 2.8" section of the manual,

please read it if the explanation here is too cryptic.

Table of contents of this section:

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Unicode-related changes

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The biggest changes in wxWidgets 3.0 are the changes due to the merge of the

old ANSI and Unicode build modes in a single build. See the Unicode overview

in the manual for more details but here are the most important incompatible

changes:

- Many wxWidgets functions taking "const wxChar \*" have been changed to take

either "const wxString&" (so that they accept both Unicode and ANSI strings;

the argument can't be NULL anymore in this case) or "const char \*" (if the

strings are always ANSI; may still be NULL). This change is normally

backwards compatible except:

a) Virtual functions: derived classes versions must be modified to take

"const wxString&" as well to make sure that they continue to override the

base class version.

b) Passing NULL as argument: as NULL can't be unambiguously converted to

wxString, in many cases code using it won't compile any more and NULL

should be replaced with an empty string.

- Functions returning "const wxChar \*" were changed as well. Mostly they now

return wxString which is then transparently convertible to either "const char

\*" or "const wchar\_t \*" but in some cases, notably wxDateTime::ParseXXX(),

the returned string could be NULL and so a separate helper class is used. If

you obtain compilation errors because of this, you can always correct them by

explicitly assigning the function return value to a variable of wanted type.

A slightly more intrusive but better solution is to use ParseXXX() version

with wxString::const\_iterator output parameter which simply returns bool to

indicate the parsing success.

- Some structure fields which used to be of type "const wxChar \*" (such as

wxCmdLineEntryDesc::shortName, longName and description fields) are now of

type "const char \*", you need to remove wxT() or \_T() around the values used

to initialize them (which should normally always be ASCII). If you want your

code to remain compatible with Unicode build of previous wx version, please

use the special wxT\_2, which is the same as wxT in 2.x only, instead.

- wxIPC classes didn't work correctly in Unicode build before, this was fixed

but at a price of breaking backwards compatibility: many methods which used

to work with "wxChar \*" before use "void \*" now (some int parameters were

also changed to size\_t). While wxIPC\_TEXT can still be used to transfer 7

bit text, the new wxIPC\_UTF8TEXT format is used for transferring wxStrings.

Also notice that connection classes should change the parameter types of

their overridden OnExecute() or override a more convenient OnExec() instead.

wxODBC and contrib libraries removal

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wxODBC library was unmaintained since several years and we couldn't continue

supporting it any longer so it was removed. Please use any of the other open

source ODBC libraries in the future projects.

Also the "applet", "deprecated", "fl", "mmedia" and "plot" contrib libraries

were removed as they were unmaintained and broken since several years.

The "gizmos", "ogl", "net" and "foldbar" contribs have been moved to

wxCode (see http://wxcode.sourceforge.net/complist.php); they are now

open for further development by volunteers.

The "stc" and "svg" contribs instead have been moved respectively into a new

"official" library stc and in the core lib.

Changes in behaviour not resulting in compilation errors, please read this!

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- Don't pass wxString::c\_str() to vararg functions any more! Due to Unicode

changes, c\_str() now returns an object and not a simple char pointer, so

using it with vararg functions does not work any more. The preferred

solution is to use wx-provided equivalents, e.g. wxPrintf() instead of

printf() which has the added benefit that you don't need to call c\_str()

any more and can pass wxString objects directly. If this is impossible,

add explicit casts to "const char\*" or "const wchar\_t\*". See wxString

documentation for more details.

Notice that using wxString::c\_str() with vararg functions does result in

compilation errors with g++ and most other compilers but not MSVC. Try to

build your code with g++ to detect all such problems at compile-time.

- Default location of wxFileConfig files has changed under Windows, you will

need to update your code if you access these files directly.

- wxWindow::IsEnabled() now returns false if a window parent (and not

necessarily the window itself) is disabled, new function IsThisEnabled()

with the same behaviour as old IsEnabled() was added.

- Generating wxNavigationKeyEvent events doesn't work any more under wxGTK (and

other platforms in the future), use wxWindow::Navigate() or NavigateIn()

instead.

- Sizers distribute only the extra space between the stretchable items

according to their proportions and not all available space. We believe the

new behaviour corresponds better to user expectations but if you did rely

on the old behaviour you will have to update your code to set the minimal

sizes of the sizer items to be in the same proportion as the items

proportions to return to the old behaviour.

- Interpretation of font height in pixels parameter has changed in wxFont

ctor and SetPixelSize() in wxMSW: it is now used as character height and not

the total cell height. If you previously used negative height to explicitly

request character height matching, you may now change your code to use

positive value (passing negative height still works but is undocumented and

deprecated). If you used positive height before you should retest your code

to check if the changes correspond to your expectations. And if you do need

the old behaviour please contact us at wx-dev to let us know about it!

- wxWindow::Freeze/Thaw() are not virtual any more, if you overrode them in

your code you need to override DoFreeze/DoThaw() instead now.

- wxCalendarCtrl has native implementation in wxGTK, but it has less features

than the generic one. The native implementation is used by default, but you

can still use wxGenericCalendarCtrl instead of wxCalendarCtrl in your code if

you need the extra features.

- wxDocument::FileHistoryLoad() and wxFileHistory::Load() now take const

reference to wxConfigBase argument and not just a reference, please update

your code if you overrode these functions and change the functions in the

derived classes to use const reference as well.

- Under MSW wxExecute() arguments are now always properly quoted, as under

Unix, and so shouldn't contain quotes unless they are part of the argument.

- wxDocument::OnNewDocument() doesn't call OnCloseDocument() any more.

- If you use wxScrolledWindow::SetTargetWindow() you must implement its

GetSizeAvailableForScrollTarget() method, please see its documentation for

more details.

- Processing of pending events now requires a running event loop.

Thus initialization code (e.g. showing a dialog) previously done in wxApp::OnRun()

or equivalent function should now be done into wxApp::OnEventLoopEnter().

See wxApp::OnEventLoopEnter() and wxApp::OnEventLoopExit() docs for more info.

- wxDialogs get wxEVT\_SIZE events immediately after creation in wxMSW, as with

wxFrames. This means that this event handler may be called earlier than in

2.8, check that all the controls are initialized before using them in it.

- wxLoadFileSelector() now allows the user to select existing files only.

- Erase background events are now not generated at all when background style is

changed. See the updated wxWindow::SetBackgroundStyle() description in the

manual for more details.

- wxTreeCtrl::GetSelection now asserts if the tree has the wxTR\_MULTIPLE style.

Instead use GetSelections() for multiple items; or if you want only the

single item last touched, the new wxTreeCtrl::GetFocusedItem.

- Custom log targets should be updated to override wxLog::DoLogRecord() method

instead of DoLog() or DoLogString() and must be updated if they call the base

class versions of these functions as this won't work any more; please see the

documentation of wxLog for more information.

- Confusing wxGridSizer(int cols, int vgap = 0, int hgap = 0) ctor which was

easy to mistake for wxGridSizer(int rows, int cols) overload was removed, you

will need to specify both vertical and horizontal gap if you want to use this

overload or specify both rows and columns and the gap otherwise. Use of the

new constructors taking wxSize for the gap argument is preferred. The same

applies to wxFlexGridSizer as well.

- wxBoxSizer::AddSpacer(x) now adds space in the direction of the sizer only

and not in both this and the orthogonal directions. This behaviour is what

most of the people expect but if you really relied on this overload adding

space in both directions you should change your code to use AddSpacer(x, x).

- wxTextCtrl::LoadFile no longer sends a text update event.

- wxXmlDocument::Save()'s indentstep argument's interpretation was fixed

to match the documentation: it now really is the number of spaces in

indentation instead of being its double. Its default value was changed

accordingly, to 2.

- wxLOCALE\_CONV\_ENCODING flag has no effect now, catalogs are converted

regardless of whether the flag was specified or not. This only affects

legacy ANSI builds.

- wxNotebook::GetSelection() returns the new page index when called from

wxEVT\_COMMAND\_NOTEBOOK\_PAGE\_CHANGED event handler in wxMSW, not the old one.

The new behaviour is consistent with wxGTK and more logical but different

from the previous versions. Using wxNotebookEvent::GetSelection() instead of

querying the notebook selection avoids the problem and is recommended.

- wxMSW-specific wxAutomationObject::GetInstance() method now creates a new

instance if needed instead of failing if the application providing the

requested ProgID is not running. Pass wxAutomationInstance\_UseExistingOnly

flag to it to revert to the old behaviour. It is also possible to use the

wxAutomationInstance\_SilentIfNone flag to prevent the error message if no

currently running instances of this object are available.

- Signature of wxDataViewCustomRenderer::StartDrag() virtual method changed.

You will need to change it in your derived renderer class too if you override

it.

- wxDataViewCustomRenderer::Activate() and LeftClick() were replaced with the

new ActivateCell() method. You will need to change it in your derived

renderer class accordingly.

- wxThread::Wait() and wxThread::Delete() used to dispatch the events while

waiting for the thread to exit in wxMSW. They still do it in default build

with WXWIN\_COMPATIBILITY\_2\_8 defined but won't dispatch any events, i.e. the

default wait mode will become wxTHREAD\_WAIT\_BLOCK in the next wxWidgets

release so you are strongly encouraged to upgrade your code to stop relying

on this behaviour.

- wxEVT\_CHAR\_HOOK events are not generated any more if the mouse is captured to

prevent the parent wxTopLevelWindow from interfering with the keyboard

handling of the window that captured the mouse.

- wxDataViewCtrl::GetSelection() now returns invalid item in all ports (this

behaved differently in wxMSW and wxGTK/wxOSX before) if more than one item

is selected in a control with wxDV\_MULTIPLE style.

- wxEVT\_COMMAND\_MENU\_SELECTED, MENU\_OPEN and CLOSE events returned a menu from

GetEventObject() in all ports but the frame the menu was attached to in wxMSW.

Now all ports return the menu that was opened or closed as the event object.

- wxAny now uses C locale format for the floating point numbers and not the

current locale one, i.e. decimal point is always used.

- wxGridBagSizer::AddGrowable{Col,Row}() must now be called after the items are

added to the sizer, i.e. the columns and rows already exist.

Changes in behaviour which may result in compilation errors

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- WXWIN\_COMPATIBILITY\_2\_4 doesn't exist any more, please update your code if

you still relied on features deprecated since version 2.4

- WXWIN\_COMPATIBILITY\_2\_6 still exists but is 0 by default in this release and

will be removed in 3.2. You can set it to 1 and rebuild wxWidgets to access

the old and deprecated symbols but please consider updating your code

instead. Here are replacements for some of the obsolete symbols:

+ wxSAVE and wxOPEN -> wxFD\_SAVE and wxFD\_OPEN

+ WXK\_PRIOR and WXK\_NEXT -> WXK\_PAGEUP and WXK\_PAGEDOWN

+ wxRESIZE\_BOX -> wxMAXIMIZE\_BOX

+ wxTHICK\_FRAME -> wxRESIZE\_BORDER

+ wxPROCESS\_ENTER and wxPASSWORD -> wxTE\_PROCESS\_ENTER and wxTE\_PASSWORD

+ EVT\_SCROLL\_ENDSCROLL -> EVT\_SCROLL\_CHANGED

+ NewControlId -> wxWindow::NewControlId()

+ wxFileHistory::GetNoHistoryFiles() -> wxFileHistory::GetCount()

+ wxSizerItem::SetOption() -> wxSizerItem::SetProportion()

+ wxSizer::Remove(wxWindow\*) -> wxSizer::Detach()

- wxDC classes hierarchy has changed, if you derived any classes from wxDC you

need to review them as wxDC doesn't have any virtual methods any longer and

uses delegation instead of inheritance to present different behaviours.

- wxWindow::ProcessEvent() (and other wxEvtHandler methods inherited by wxWindow)

has been made protected to prevent wrongly using it instead of correct

GetEventHandler()->ProcessEvent().

New ProcessWindowEvent() was added for convenience.

- Return type of wxString::operator[] and wxString::iterator::operator\* is no

longer wxChar (i.e. char or wchar\_t), but wxUniChar. This is not a problem

in vast majority of cases because of conversion operators, but it can break

code that depends on the result being wxChar.

- The value returned by wxString::c\_str() cannot be casted to non-const char\*

or wchar\_t\* anymore. The solution is to use newly added wxString methods

char\_str() (which returns a buffer convertible to char\*) or wchar\_str()

(which returns a buffer convertible to wchar\_t\*). These methods are

available in wxWidgets 2.8 series beginning with 2.8.4 as well.

- The value returned by wxString::operator[] or wxString::iterator cannot be

used in switch statements anymore, because it's a class instance. Code like

this won't compile:

switch (str[i]) { ... }

and has to be replaced with this:

switch (str[i].GetValue()) { ... }

- Return type of wxString::c\_str() is now a helper wxCStrData struct and not

const wxChar\*. wxCStrData is implicitly convertible to both "const char \*"

and "const wchar\_t \*", so this only presents a problem if the compiler cannot

apply the conversion. This can happen in 2 cases:

+ There is an ambiguity because the function being called is overloaded to

take both "const char \*" and "const wchar\_t \*" as the compiler can't choose

between them. In this case you may use s.wx\_str() to call the function

matching the current build (Unicode or not) or s.mb\_str() or s.wc\_str() to

explicitly select narrow or wide version of it.

Notice that such functions are normally not very common but unfortunately

Microsoft decided to extend their STL with standard-incompatible overloads

of some functions accepting "const wchar\_t \*" so you may need to replace

some occurrences of c\_str() with wx\_str() when using MSVC 8 or later.

+ Some compilers, notably Borland C++ and DigitalMars, don't correctly

convert operator?: operands to the same type and fail with compilation

error instead. This can be worked around by explicitly casting to const

wxChar\*: wxLogError(\_("error: %s"), !err.empty() ? (const wxChar\*)err.c\_str() : "")

- wxDateTime::ParseXXX() overloads don't return anything when called with

wxCStrData argument. If you need to test the parsing success, use a newer

overload taking wxString::const\_iterator and returning bool or explicitly

select a narrow or wide char version to use by casting c\_str() to either

"char\*" or "wchar\_t\*". Or create a temporary wxString and parse it instead.

- wxCtime() and wxAsctime() return char\*; this is incompatible with Unicode

build in wxWidgets 2.8 that returned wchar\_t\*.

- DigitalMars compiler has a bug that prevents it from using

wxUniChar::operator bool in conditions and it erroneously reports type

conversion ambiguity in expressions such as this:

for ( wxString::const\_iterator p = s.begin(); \*p; ++p )

This can be worked around by explicitly casting to bool:

for ( wxString::const\_iterator p = s.begin(); (bool)\*p; ++p )

- Virtual wxHtmlParser::AddText() takes wxString, not wxChar\*, argument now.

- Functions that took wxChar\* arguments that could be NULL in wxWidgets 2.8

are deprecated and passing NULL to them won't compile anymore, wxEmptyString

must be used instead.

- wxTmemxxx() functions take either wxChar\* or char\*, not void\*: use memxxx()

with void pointers.

- Removed insecure wxGets() and wxTmpnam() functions.

- Removed global GetLine() function from wx/protocol/protocol.h, use

wxProtocol::ReadLine() instead.

- wxVariantData no longer derives from wxObject; instead of using

wxDynamicCast with wxVariantData you can use the macro

wxDynamicCastVariantData with the same arguments.

- wxWindow::Next/PrevControlId() don't exist any more as they couldn't be

implemented correctly any longer because automatically generated ids are not

necessarily allocated consecutively now. Use GetChildren() to find the

next/previous control sibling instead.

- Calling wxConfig::Write() with an enum value will fail to compile because

wxConfig now tries to convert all unknown types to wxString automatically.

The simplest solution is to cast the enum value to int.

- Several wxImage methods which previously had "long bitmaptype" parameters

have been changed to accept "wxBitmapType bitmaptype", please use enum

wxBitmapType in your code.

- wxGridCellEditor::EndEdit() signature has changed and it was split in two

functions, one still called EndEdit() and ApplyEdit(). See the documentation

of the new functions for more details about how grid editors should be

written now.

- wxEVT\_GRID\_CELL\_CHANGE event renamed to wxEVT\_GRID\_CELL\_CHANGED and shouldn't

be vetoed any more, use the new wxEVT\_GRID\_CELL\_CHANGING event to do it.

- wxListCtrlCompare function used with wxListCtrl::SortItems() must now declare

its third parameter as wxIntPtr and not long (this allows passing pointers

to it under 64 bit platforms too).

- Global wxPendingEvents and wxPendingEventsLocker objects were removed.

You may use wxEventLoopBase::SuspendProcessingOfPendingEvents instead of

locking wxPendingEventsLocker now.

- wxBitmapButton::GetBitmapXXX() overloads returning non-const wxBitmap

references have been removed, modifying the returned bitmaps never worked and

now results in compile-time error.

- wxLogXXX() are now macros, not functions. Because of this calling them with

an explicit scope resolution operator ("::wxLogError()") doesn't work any

longer, just remove it. Also notice that using them inside an "if" statement

without enclosing parentheses results in warnings from g++ with -Wparentheses,

add parentheses around the if statement body to work around it.

- wxList::Member() now returns bool and not a pointer/iterator. This shouldn't

require any changes as it was always meant to be used for checking for the

presence of an element in the list only. If you used it as Find(), simple do

use Find() instead.

- wxLongLongFmtSpec is now a normal and not wide string so you will need to

change expressions of the form wxT("%") wxLongLongFmtSpec wxT("x") to

just "%" wxLongLongFmtSpec "x", i.e. simply remove wxT() from the strings you

concatenate with it.

- wxST\_MARKUP doesn't exist any more, use wxControl::SetLabelMarkup() instead.

- wxComboBox::IsEmpty(), which was previously available in some ports (but not

wxMSW), doesn't exist any more, use either IsListEmpty() or IsTextEmpty().

- wxSingleChoiceDialog ctors and Create() now have 2 overloaded versions: one

taking void\*\* client data and the deprecated one taking char\*\*. This can

result in compilation errors due to an ambiguity between them if you pass

NULL as client data. To fix this, cast NULL explicitly to "void\*\*".

- wxChoicebookEvent, wxListbookEvent, wxNotebookEvent, wxToolbookEvent and

wxTreebookEvent are now all synonyms for wxBookCtrlEvent. The existing code

using the old names continues to work but they can't be forward-declared

any more. Use wxBookCtrlEvent in your code if you need to forward-declare

it or just include the appropriate header instead of forward declaration.

- wxStandardPaths class can't be created now. This was never the right thing

to do, wxStandardPaths::Get() always had to be used to access the global

object of the correct type but now doing it results in a compilation error.

Deprecated methods and their replacements

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- wxCreateGreyedImage() deprecated, use wxImage::ConvertToGreyscale() instead.

- wxString::GetWriteBuf() and UngetWriteBuf() deprecated, using wxStringBuffer

or wxStringBufferLength instead.

- wxDIRCTRL\_SHOW\_FILTERS style is deprecated, filters are alwsys shown if

specified so this style should simply be removed

- wxDocManager::MakeDefaultName() replaced by MakeNewDocumentName() and

wxDocument::GetPrintableName() with GetUserReadableName() which are simpler

to use

- wxXmlProperty class was renamed to wxXmlAttribute in order to use standard

terminology. Corresponding wxXmlNode methods were renamed to use

"Attribute" instead of "Property" or "Prop" in their names.

- wxConnection::OnExecute() is not formally deprecated yet but new code should

use simpler OnExec() version which is called with wxString argument

- Various wxMenuItem methods were deprecated in favour of more consisently

named new versions:

. GetLabel() is now GetItemLabelText()

. GetText() is not GetItemLabel()

. GetLabelFromText() is now GetLabelText()

. SetText() is now SetItemLabel()

- wxBrush's, wxPen's SetStyle() and GetStyle() as well as the wxBrush/wxPen

ctor now take respectively a wxBrushStyle and a wxPenStyle value instead of a

plain "int style"; use the new wxBrush/wxPen style names (wxBRUSHSTYLE\_XXX

and wxPENSTYLE\_XXX) instead of the old deprecated wxXXX styles.

- EVT\_GRID\_CELL\_CHANGE was deprecated, use EVT\_GRID\_CELL\_CHANGED instead if you

don't veto the event in its handler and EVT\_GRID\_CELL\_CHANGING if you do.

- EVT\_CALENDAR\_DAY event has been deprecated, use EVT\_CALENDAR\_SEL\_CHANGED.

- EVT\_CALENDAR\_MONTH and EVT\_CALENDAR\_YEAR events are deprecated,

use EVT\_CALENDAR\_PAGE\_CHANGED which replaces both of them.

- wxCalendarCtrl::EnableYearChange() and wxCAL\_NO\_YEAR\_CHANGE are deprecated.

There is no replacement for this functionality, it is being dropped as it is

not available in native wxCalendarCtrl implementations.

- wxDC::SetClippingRegion(const wxRegion&) overload is deprecated as it used

different convention from the other SetClippingRegion() overloads: wxRegion

passed to it was interpreted in physical, not logical, coordinates. Replace

it with SetDeviceClippingRegion() if this was the correct thing to do in your

code.

- wxTE\_AUTO\_SCROLL style is deprecated as it's always on by default anyhow.

- wxThreadHelper::Create() has been renamed to CreateThread which has a better

name for a mix-in class, and allows setting the thread type.

- wxDos2UnixFilename, wxUnix2DosFilename, wxStripExtension, wxGetTempFileName,

wxExpandPath, wxContractPath, wxRealPath, wxCopyAbsolutePath, wxSplitPath

were deprecated in favour of wxFileName methods. See docs for more info.

- wxEvtHandler::TryValidator/Parent() are deprecated, override the new and

documented TryBefore/After() methods if you used to override these ones.

- wxGetMultipleChoices() is deprecated, use wxGetSelectedChoices() which has

the same signature but returns -1 and not 0 if the dialog was cancelled.

- building the windows which are placed inside wxStaticBoxes as siblings of the

wxStaticBox is still allowed but it's deprecated as it gives some problems

on some ports (e.g. wxGTK).

You should now create windows placed inside a wxStaticBox as children of

the static box itself.

- wxMouseState::{Left,Middle,Right}Down() were renamed to XXXIsDown() for

consistency with wxMouseEvent and the old names were deprecated.

- wxFont::SetNoAntiAliasing() was deprecated, it never really worked in most

ports and was always marked as "experimental" API. It will be replaced with

wxDC-level anti-aliasing control in the future.

- wxValidator::SetBellOnError() incorrectly interpreted its argument (it

disabled the bell when it was true) and was replaced by SuppressBellOnError()

with more expected semantics.

- wxPORTRAIT and wxLANDSCAPE are now elements of wxPrintOrientation enum and

wxPrintData::SetOrientation(int) takes wxPrintOrientation and not int.

- Second parameter of wxSlider::SetTickFreq(int n, int pos) is deprecated,

simply remove it from your code and use wxSlider::SetTickFreq(int n) as it

was never used anyhow.

- wxSingleChoiceDialog ctor and Create() take "void\*\*" client data pointer

instead of "char\*\*". As the client data is typically untyped, you should

simply remove the casts to "char\*\*" which you probably have in your code if

you use these functions.

- wxDataViewCtrl::StartEditor(item, n) taking column index is now deprecated,

use EditItem(item, GetColumn(n)), which takes the column itself, instead.

- wxWindow::MakeModal() is deprecated, use wxDialog::ShowModal() instead if

possible or wxWindowDisabler otherwise.

Changes in behaviour visible to end users

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- wxTextCtrl::SaveFile() now creates UTF-8-encoded files instead of using the

default locale encoding. This ensures that the entire text control contents

can be saved and is consistent with the use of UTF-8 by default in the other

places, notably DoLoadFile(), but is a change since the previous versions.

If you need the old behaviour, consider calling wxFFile::Write() explicitly

with wxConvCurrent conversion parameter.

- In wxMSW wxSpinCtrl used to prevent the user from entering more digits than

could fit in its visible area. This was inconsistent with the other ports and

now the control scrolls if too much text is added.

Build system changes

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- Cocoa is now used by default under OS X instead of Carbon. Pass --with-carbon

option to configure to use wxCarbon.

- In wxMSW makefile builds, "\_x64" is used instead of "\_amd64" when compiling

for this architecture in the architecture-specific paths and library names.

TARGET\_CPU can still be specified as "amd64" for compatibility but "x64"

should be used now.

- Official wxMSW binaries, i.e. those built with OFFICIAL\_BUILD=1, built with

MSVC now include the version of the compiler used and the architecture if

it's not the default "x86". E.g. a library built with MSVC 10 for amd64 is

called "wxbase294ud\_vc110\_amd64.dll" now.

- MSVC projects don't include neither wxUniversal nor ANSI (non-Unicode)

configurations any more. The simplest way to build wxWidgets in these

configurations if you need them is to use nmake from the command line with

WXUNIV=1 or UNICODE=0 command line parameter respectively.

- The manifest is not included by wx/msw/wx.rc any longer for MSVC compiler.

If you're using MSVC 7 which requires it, you must explicitly define

wxUSE\_RC\_MANIFEST=1 and also predefine WX\_CPU\_X86 in the resource compiler

options in your project file.

Major new features in this release

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- wxWidgets is now always built with Unicode support but provides the same

simple (i.e. "char \*"-tolerant) API as was available in ANSI build in the

past.

- wxWidgets may now use either wchar\_t (UTF-16/32) or UTF-8 internally,

depending on what is optimal for the target platform.

- New webview library, implementing wxWebView: a wrapper for the native

platform web engine with full support for HTML and JavaScript.

- New propgrid library containing wxPropertyGrid and related classes.

- New ribbon library for advanced toolbars.

- Many enhancements to wxDataViewCtrl.

- Event loops, timers and sockets can now be used in wxBase, without GUI.

- Events can now be connected to any functor, not necessarily a method of

wxEvtHandler-derived class. The compile-time safety was also improved.

- Documentation for wxWidgets has been converted from LaTex to C++ headers

with Doxygen comments and significantly improved in the process (screenshots

of various controls were added, more identifiers are now linked to their

definition &c). Any reports about inaccuracies in the documentation are

welcome (and due to using the simple Doxygen syntax it is now easier than

ever to submit patches correcting them! :-)

- Support for persistent objects automatically saving and restoring their state

was added.

3.0.1: (released 2014-xx-xx)

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All (GUI):

- Fix crash when setting invalid label ending with "&" (ZaneUJi).

3.0.0: (released 2013-11-11)

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All:

- Fix crash if wxCharBuffer fails to allocate the requested amount of memory.

wxGTK:

- Fix wxSpinButton default width under GTK+ 3 (David Hart).

wxMSW:

- Compilation fix for WXWIN\_COMPATIBILITY\_2\_6=1 case (Tim Stahlhut).

- Fix behaviour of wxComboBox using ID=1000.

3.0-RC2: (released 2013-10-28)

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All:

- wxTextFile::SaveFile() uses UTF-8 now.

- Add possibility to validate the input files against a schema to wxrc.

- Fix recently broken compilation with Intel compiler.

- Fix reading of files with Mac EOLs in wxTextFile.

All (GUI):

- Fix wxListEvent::GetData() in LLP64 builds.

- Fix special characters handling in wxSVGFileDC::DrawText() (Ludovic Aubert).

wxGTK:

- Fix DrawArc() when printing.

wxMSW:

- Optional better handling of SAFEARRAYs in wxAutomationObject (PB).

3.0-RC1: (released 2013-10-07)

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All:

- Adjust dates invalid due to DST consistently under all platforms in wxDateTime.

- Allow using custom HTTP methods with wxHTTP (Kolya Kosenko).

- Add wxFileName::SetPermissions() (Catalin Raceanu).

- Add specific wxFSW\_WARNING\_OVERFLOW warning type (Rob Bresalier).

- Fix build with wxUSE\_FFILE==0 (jroemmler).

- Add wxDEPRECATED\_MSG() and use it in a few places.

- Return the old file descriptor/pointer from wx(F)File::Detach() (troelsk).

- \_() and wxGetTranslation() are now thread-safe.

All (GUI):

- Fix crash in wxHTML on mal-formed <area> elements (LukasK).

- Set correct cursor when the mouse is over image map links in wxHTML (LukasK).

- Add wxPropertyGridPageState::GetColumnFullWidth() (Teodor Petrov).

- wxRTC: extracted XML utilities into a separate class for potential reuse.

- wxPropertyGrid: improve composite flags handling (Jens Lody).

- Don't crash laying out wxGridBagSizer with only hidden elements (briceandre).

- Fix alignment and transparency of bitmaps in wxDataViewCtrl (Eric Jensen).

- Fix crash when auto-sizing a wxDataViewCtrl column (Spencer T. Parkin).

- Add wxHtmlTag::GetParamAsString() convenience method.

- Add wxActivateEvent::GetActivationReason() (Trigve).

wxGTK:

- Fix horizontal mouse wheel scrolling (minoki).

- Fix wxMenu::GetTitle() before the menu is appended to the bar (David Hart).

wxMSW:

- It is now possible to tab into radio boxes again.

- Fix launching some types of files under Windows 7 and later (Steven Houchins).

- Don't use an icon for items inserted without one into wxListCtrl (Chuddah).

- Handle custom configurations when using MSVC autolinking (tinman).

wxOSX:

- Improve handling of keyboard entry using IME (minoki).

- Fix capturing non-ASCII output using wxExecute().

- Fix column sorting UI in wxDataViewCtrl (Myrsloik).

2.9.5: (released 2013-07-15)

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INCOMPATIBLE CHANGES SINCE 2.9.4:

- The locale is not set automatically on startup any more, unlike in the

previous 2.9 versions (but like in 2.8). Use wxLocale (preferred) or call

wxApp::SetCLocale() from your overridden wxApp::Initialize() to restore the

old behaviour.

- wxWebView::New now takes a string identifier for the backend to be used

rather than a wxWebViewBackend enum value.

- wxWebView identifiers of the form WEB\_VIEW\_\* have been renamed to WEBVIEW\_\*

for consistency with the rest of wxWidgets.

- wxFont(int size, wxFontFamily family, int flags) ctor added in 2.9.4 was

removed to avoid ambiguities with the other existing ctors and replaced with

the new wxFont(wxFontInfo) ctor.

All:

- Provide short synonyms using the same name as event table macros for the

event type constants to make using Bind() less verbose. E.g.

wxEVT\_COMMAND\_MENU\_SELECTED is now wxEVT\_MENU (but the old name remains

available for compatibility) (Catalin Raceanu).

- Fix wxExecute() implementation under Unix (Rob Bresalier).

- Also fix reading output from children exiting with -1 () (Jonathan Dagresta).

- Add wxEvtHandler::CallAfter() method for asynchronous method calls.

- Add support for symlinks to wxFileName (David Hart).

- Add wxDIR\_NO\_FOLLOW flag for wxDir traversal (David Hart).

- Allow testing for symlink/FIFO/socket existence in wxFileName (David Hart).

- Many important bug fixes in wxFileSystemWatcher (David Hart).

- Add wxInputStream::ReadAll() and wxOutputStream::WriteAll() (Catalin Raceanu).

- Fix wxCountingOutputStream::LastWrite() return value (Catalin Raceanu).

- Add new wxFSW\_EVENT\_ATTRIB and wxFSW\_EVENT\_UNMOUNT flags (David Hart).

- Add separate read/written bytes counters and per-direction NOWAIT and WAITALL

flags to wxSocket (Rob Bresalier).

- Add wxEventLoop::ScheduleExit() (Rob Bresalier).

- Add wxProcess::SetPriority() (Marián "VooDooMan" Meravý).

- Add wxDir::Close() method (Silverstorm82).

- Fix wxDateTime::GetWeekOfYear() for the last week of year (aimo).

- Fix compilation of wxHash{Map,Set} with g++ 4.7 (Nathan Ridge).

- Fix posting large amounts of data in wxHTTP (Platonides).

- Add wxFile::ReadAll() for consistency with wxFFile.

- Add wxDateTime::DiffAsDateSpan() and wxDateSpan::GetTotalMonths() (jonasr).

- Add wxVector::assign() (Jonas Rydberg).

- Add wx[F]File{Input,Output}Stream::GetFile() (troelsk).

- Add wxSocketBase::GetSocket() (Laurent Poujoulat).

- Add IEEE 754 formats support to wxDataStream classes (Jonathan Liu).

- Add wxVector<>::const\_reverse\_iterator (troelsk).

- Fix thread-safety issue in wxSharedPtr<> (plorkyeran).

- Add wxTimer::StartOnce().

- Add Nepali translation (Him Prasad Gautam).

All (GUI):

- Add support for wxAuiNotebook to XRC (Steven Lamerton).

- Add support for wxRibbonBar and related controls to XRC (Armel Asselin).

- Add wxBITMAP\_PNG() macro similar to wxBITMAP() but for PNG files.

- Add new wxSimplebook class.

- Implement possibility to hook all modal dialog calls.

- Support hexadecimal numbers in wxSpinCtrl.

- Respect window max size in wxBoxSizer (Nathan Ridge).

- Add support for searching in wxWebView for MSW and GTK (Allonii).

- Add generic wxFileSystem support to wxWebView with

wxWebViewFSHandler (Nick Matthews).

- Add possibility to disable context menu in wxWebView.

- Add ability to register custom wxWebView backends using

wxWebView::RegisterFactory and a wxWebViewFactory derived class.

- Add possibility to hide and show again wxRibbonBar pages (wxBen).

- Add wxRibbonBar pages highlighting (wxBen).

- Add expand/collapse button to wxRibbonBar (rakeshthp).

- Fix item data access in wxDataViewListCtrl (Kry).

- Fix problem with floating maximized AUI panes (Laurent Poujoulat).

- Add owned client data support to wxRibbonButtonBar. Notice that the client

data now must be set using the SetItemClient{Data,Object}() methods and not

when inserting the button (Laurent Poujoulat).

- Add wxBitmapButton::NewCloseButton().

- Add wxTextEntry::SelectNone() (troelsk).

- Restore the original wxGrid col/row size when unhiding it (Michael Richards).

- Don't show hidden wxGrid columns/rows when resizing them (Michael Richards).

- Fix text origin and extent computations in wxSVGFileDC (Neil Chittenden).

- Show tooltips for the too long items in generic wxTreeCtrl (Steven Houchins).

- Add wxStyledTextCtrl::AnnotationClearLine() (sentieshar).

- Add support for background-color style to span element in wxHTML (gevorg).

- Add limited support for CSS styles for <a> tags too in wxHTML (gevorg).

- Add "inherit" to <font> XRC tag (Steffen Olszewski, Gero Meßsysteme GmbH).

- Add support for wxALWAYS\_SHOW\_SB style to wxScrolled<> (Catalin Raceanu).

- Add wxTreeCtrl::EnableBellOnNoMatch() (Jonathan Dagresta).

- Implement incremental search in wxGenericListCtrl (Jonathan Dagresta).

- Make TAB behaviour in wxGrid more flexible (Fulvio Senore).

- Add missing styles support to wxWindow XRC hanlder (Steffen Olszewski).

- Allow specifying all wxFlexGridSizer parameters in XRC (Steffen Olszewski).

- Close wxLogWindow automatically if it's the last remaining top level window.

- Implement clipping for wxSVGFileDC (Steve Benbow).

- Add wxDirCtrl::GetPath() (troelsk).

- Add wxEVT\_DIRCTRL\_SELECTIONCHANGED event (troelsk).

- Add wxEVT\_DIRCTRL\_FILEACTIVATED event (troelsk).

- Add wxControl::GetSizeFromTextSize() (Manuel Martin).

- Optionally allow showing tooltips for disabled ribbon buttons (wxBen).

- Improve horizontal scrolling in wxRibbonControl (wxBen).

- Add wxTL\_NO\_HEADER style to wxTreeListCtrl (robboto).

- Add possibility to delay showing wxRichToolTip (John Roberts).

- Add "rect" paramerer to wxRichToolTip::ShowFor() (John Roberts).

- Add wxListCtrl::EnableAlternateRowColours() (troelsk).

- Fix wrong tab order in wxAuiNotebook after dragging (Mark Barber).

- Fix bug in generic wxDataViewCtrl column dragging (jobuz).

- Add wxMask::GetBitmap() for wxMSW, wxGTK and wxOSX

- Add wxCheckListBox::GetCheckedItems() (hartwigw).

- Add wxAUI\_TB\_PLAIN\_BACKGROUND wxAuiToolBar style (Allann Jones).

- Make wxGenericDataViewCtrl::SetFont() really work (Laurent Poujoulat).

- Remove wxLogWindow::OnFrameCreate(), it was never called anyhow.

- Add wxBookCtrlBase::FindPage() (troelsk).

- Add wxDocument::Activate() (troelsk).

- Add wxDocManager::FindDocumentByPath() (troelsk).

- Add wxEVT\_GRID\_COL\_AUTO\_SIZE event (Igor Korot).

- Add chainable wxWizardPageSimple::Chain() overload.

- Add wxTextEntryDialog::SetMaxLength() (derEine).

- Fix maximum width support in wxGridCellTextEditor (derEine).

- Allow associating a validator with wxGridCellTextEditor (derEine).

- Add more convenient wxFont(wxFontInfo) ctor.

- Pass menu events to the handler in the associated wxMenuBar.

- Add wxWindow::BeginRepositioningChildren() and EndRepositioningChildren().

- Fix wxStyledTextCtrl::SetInsertionPointEnd() (troelsk).

- Add wxFileDialog::GetCurrentlySelectedFilename() (Carl Godkin).

- Add wxMouseEvent::GetColumnsPerAction() (toiffel).

- Add support for horizontal mouse wheel scrolling in wxSTC (toiffel).

- Improve wrapping of cell contents in wxGrid (nmset).

- Big speed up in wxImage::Scale(wxIMAGE\_QUALITY\_HIGH) (Hsilgos).

wxGTK:

- Allow building wxGTK3 with Broadway and Wayland backends (Kolya Kosenko).

- Further improvements to wxGTK/Win32 port (Kolya Kosenko).

- Provide native implementation of wxNotificationMessage using libnotify.

- Generate clipboard events for wxComboBox and not only wxTextCtrl.

- Improve drag-and-drop of URLs.

- Make key event handling consistent with wxMSW (John Rails).

- Fix printing in landscape mode (Marcin Wojdyr).

- Fix path selection in wx{File,Dir}Dialog with GTK+ > 2.24.10 (obfuscated).

- Make "More windows..." menu item in MDI "Window" menu actually work.

wxMSW:

- Fix pulsing of bitmaps in focused buttons under Windows 7 (Catalin Raceanu).

- Fix setting colours for the text part of wxComboBox (Igor Korot).

- Add support for CURRENCY and SCODE types to OLE Automation helpers (PB).

- Allow setting LCID used by wxAutomationObject (PB).

- Better support for SAFEARRAY in OLE Automation code (PB).

- Fix calling Iconize(false) on hidden top level windows (Christian Walther).

- Don't send any events from wxSpinCtrl::SetRange() even if the value changed.

- Display system drag images during drag and drop if available (PeterO).

- Fix setting initial wxSpinCtrl value outside 0..100 range (joim).

- Fix changing labels of menu items with bitmaps (Daniel Hyams).

- Fix appearance of multiline coloured wxCheckBox (Catalin Raceanu).

- Allow creating wxCursor from ANI files (Catalin Raceanu).

- Add wxIcon::CreateFromHICON() (troelsk).

- Improve wxCURSOR\_RIGHT\_ARROW appearance (DoltAlya).

- Generate menu highlight events for popup menus in wxDialog (Sam Partington).

- Return more native shell icons from wxArtProvider (Markus Juergens).

- Fix filter checks in wxDir::FindFirst/Next() (Catalin Raceanu).

- Add support for wxICON\_AUTH\_NEEDED to wxMessageDialog (Chris Spencer).

- Fix printing too many copies of the document in some cases (John Roberts).

- Fix DST confusion in wxFileName::{Set,Get}Times().

wxOSX/Cocoa:

- Implement image support in wxNotebook (Malcolm MacLeod).

- Add support for button mnemonics (joostn).

- Implemented wxTextCtrl::SetDefaultStyle().

- Fix insertion and removal of radio items in wxMenu.

2.9.4: (released 2012-07-09)

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INCOMPATIBLE CHANGES SINCE 2.9.3

- wxDataViewListCtrl doesn't delete its client data any more for compatibility

with wxListCtrl, use full wxDataViewCtrl if you don't need compatibility.

All:

- Added wxLogFormatter to allow customizing wxLog output (Sébastien Gallou).

- Added wxFSInputStream for reading data from wxFileSystem (Armel Asselin).

- Added "%z" support to wxDateTime::Format() and Parse() (Armel Asselin).

- Add wxHTTP::SetPostBuffer(wxMemoryBuffer) and SetPostText() (Eran Ifrah).

- Fix wrong time zone used in wxDateTime::UNow().

- Fix performance of wxStdInputStream with MSVC8/9 (wsu).

- Added wxFileName::Exists().

- Implement wxThread::SetConcurrency() for POSIX systems (Igor Korot).

- Fix deadlock due to too many events in Unix console apps (Lukasz Michalski).

- Added wxDir::GetNameWithSep().

- Allow unloading wxPluginLibrary objects in any order (manyleaves).

- Fix passing strings with embedded NULs in wxThreadEvents (Steffen Olszewski).

- Add wxList::AsVector<>() helper (troelsk).

All (GUI):

- Add wxGrid::Render() for printing wxGrid (John Roberts).

- Added strike-through support to wxFont (Igor Korot).

- Add support for horizontal mouse wheel events to MSW and GTK (Lauri Nurmi).

- Fix infinite loop in wxHtmlEasyPrinting when trying to page break images

taller than the page height in wxHtmlEasyPrinting (Laurent Poujoulat).

- Added wxFilePickerCtrl::SetInitialDirectory().

- Added wxDataViewItemAttr::SetBackgroundColour() and implemented it in generic

wxDataViewCtrl (Andrew Xu).

- Fix item alignment in icon view in the generic wxListCtrl.

- Support font-family/style, text-decoration in wxHtmlWindow (Blake Oleander).

- Show ribbon tools help strings in tooltips (John Roberts).

- Improve row/column selection modes in wxGrid (joostn).

- Send wxEVT\_UPDATE\_UI for wxRibbonButtonBar and wxRibbonToolBar (Emilien Kia).

- Add InsertXXXButton() to wxRibbonButtonBar and wxRibbonToolBar (Emilien Kia).

- Allow enabling/disabling and toggling tools in wxRibbonToolBar (Emilien Kia).

- Add wxRibbonBar::DeletePage() and ClearPages() methods (Emilien Kia).

- Implement support for extension button to wxRibbonPanel (Emilien Kia).

- Fix multiple item selection in generic wxTreeCtrl (Igor Korot).

- Implement wxMenuBar::IsEnabledTop() for all major ports (Igor Korot).

- Implement best size calculation for report mode wxListCtrl.

- Fix setting of the frame icon when using non-standard icon sizes (vid).

- Implement wxDV\_ROW\_LINES in generic wxDataViewCtrl (RedCAT).

- Added EVT\_AUI\_PANE\_ACTIVATED event (Ronny Krüger).

- Added support for page tooltips to wxAuiNotebook (Armel Asselin).

- Added wxSplitterWindow::SetSashInvisible() (Armel Asselin).

- Enable/disable "Window" menu items in AUI MDI correctly (wsu).

- Added wxTimePickerCtrl::Get/SetTime().

- Fix WXK\_MENU handling in wxStyledTextCtrl under wxGTK (cantabile).

- Added wxAcceleratorEntry::ToRawString() (Armel Asselin).

- Added wxDataViewEvent::SetDragFlags() and GetDropEffect() (Friedrich).

- Added support for fields and virtual attributes to wxRichTextCtrl.

- Added custom text and dimension scaling to wxRichTextCtrl.

- Added pixel font size capability to wxTextAttr and wxRichTextCtrl.

- Fully implement wxStyledTextCtrl::PositionToXY() (troelsk).

- Added wxDataViewListCtrl::{Set,Get}ItemData().

- Added wxDataViewListCtrl::GetItemCount() (Kry).

- Added support for Korean Johab and Vietnamese encodings (jank9201).

- Fix off by 1 bug with setting font size in points in wxHTML (gevorg).

- Fix return value of wxGenericListCtrl::InsertColumn() (Sebastian Walderich).

- Add wxDocManager::Get{Views,Documents,Templates}Vector() (troelsk).

GTK:

- Added support for GTK+ 3 (John Chain and Paul Cornett)

- Implement support for wxBG\_STYLE\_TRANSPARENT (Armel Asselin).

- Implement stippled/hatched pens/brushes in wxGraphicsContext (Kit Bishop).

- Fix wxNotebook best size calculation.

- Implement wxDirDialog::Create() and wxFileDialog::Create() (vinayakgarg).

- Fix const methods display in assert dialog (vinayakgarg).

- Implement native tab art for wxAUI (Jens Lody and Teodor Petrov).

- Fix pasting large amounts of text (Bradley Hawkins).

- Show gstreamer errors if wxMediaCtrl fails to play file.

- Fix wxGridCellEnumEditor mouse handling (Fulvio Senore).

MSW:

- Fixed regression with initial focus in the dialogs in 2.9.3.

- Use new style directory selection dialog under Vista and later (PB).

- Added support for wxEXEC\_MAKE\_GROUP\_LEADER to wxExecute (tteras).

- Set wxMenu being closed in wxEVT\_MENU\_CLOSE events (Marcin Malich).

- Fix coordinates and Z-position for joystick events (Markus Juergens).

- Fix size of the font returned by wxTextCtrl::GetStyle() (Igor Korot).

- Add wxActiveXContainer::QueryClientSiteInterface and implement it in

wxWebViewIE to improve the default behaviour (Allonii).

- Update stretchable spaces in wxToolBar after tool removal (Catalin Raceanu).

- Implement wxGraphicsContext::SetInterpolationQuality() (Eric Jensen).

- Fix coordinate handling in wxDC::Blit() when source DC is a DIB.

- Fix handling of composite windows in wxToolTip (Armel Asselin).

- Add VT\_I8 support to wxAutomationObject (PB).

- Fix wxListbook size calculations to avoid spurious scrollbars.

- Fix code compilation with wxUSE\_UNICODE\_UTF8 (Kolya Kosenko).

- Fix crash in wxTreeCtrl when calling GetSelection() from selection changed

event handler under Vista and later (sbrowne).

- Fix text extent computation in wxGraphicsContext (juria90).

OSX:

- Provide native implementations of wxDatePickerCtrl and wxTimePickerCtrl.

- Fix handling of positional parameters in wxPrintf() &c (David Connet).

- Implement wxStackWalker.

Univ:

- Fix regression with read-only wxComboBox appearance (Jason Erb).

Unix:

- Fix bug with wxDir("/").GetName() returning empty string.

2.9.3: (released 2011-12-14)

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INCOMPATIBLE CHANGES SINCE 2.9.2

- wxPanel::SetBackgroundBitmap() was removed, derive your class from

wxCustomBackgroundWindow and use its method with the same name instead.

All:

- Fix parsing of negated long options in wxCmdLineParser (roed\_bis).

- Fix crash in wxArray::insert() overload taking iterator range (wsu).

- Added wxEventFilter class and wxEvtHandler::{Add,Remove}Filter().

- Added convenient wxCmdLineParser::AddLong{Option,Switch}() wrappers.

- Added wxStopWatch::TimeInMicro() and wxGetUTCTimeUSec() and improved

wxStopWatch precision.

- Made wxGetLocalTimeMillis() really return local time, added

wxGetUTCTimeMillis() returning what this function used to return.

- Added wxCriticalSection::TryEnter() (Catalin Raceanu).

- Add support for OpenBSD to wxDialUpManager (brad0).

- Added wxEXEC\_HIDE\_CONSOLE flag.

All (GUI):

- Added wxWebView library (Steven Lamerton & Auria, GSoC 2011 project).

- Added wxTreeListCtrl class.

- Added wxTimePickerCtrl class.

- Added wxRichToolTip class.

- Added documented, public wxNavigationEnabled<> class.

- Added wxTextCtrl::PositionToCoords() (Navaneeth).

- Added support for wxHELP button to wxMessageDialog.

- Added wxBannerWindow class.

- Allow setting window shape to arbitrary wxGraphicsPath.

- Added wxTextEntry::AutoCompleteDirectories().

- Support float, double and file name values in wxGenericValidator (troelsk).

- Add support for custom numeric formats to wxGrid (Kinaou Hervé).

- Fix keyboard navigation in wxGrid with hidden columns (ivan\_14\_32).

- Add wxDataViewEvent::IsEditCancelled() (Allonii).

- Send EVT\_DATAVIEW\_ITEM\_CONTEXT\_MENU events even when not clicking on an item.

- Allow marking wxTreeBook nodes to expand initially in XRC (RedTide).

- Added customizable wxDocManager::OnMRUFileNotExist() virtual method.

- Fix stock labels when not using mnemonics for Chinese (cw.ahbong).

- Added wxComboBox::IsListEmpty() and IsTextEmpty().

- Added wxDataViewCtrl::GetSelectedItemsCount() and HasSelection().

- Added wxFLP\_SMALL and wxDIRP\_SMALL styles.

- Added support for saving alpha with TIFF images.

- Added wxPersistentSplitter.

- Derive wxAuiNotebook from wxBookCtrlBase (Steven Lamerton).

- Fix tooltips in wxSearchCtrl and other composite controls (Catalin Raceanu).

- Allow converting to and from wxGraphicsBitmap and wxImage directly.

- Allow wxGraphicsFont creation without passing by wxFont.

- Added wxDataViewCustomRenderer::ActivateCell().

- Add "checked" property for toolbar tool elements in XRC.

- Allow customization of the locations where persistent settings are stored.

- Restore support for reusing ids more than 254 times (Armel Asselin).

- Added wxIMAGE\_OPTION\_ORIGINAL\_{WIDTH,HEIGHT} (Catalin Raceanu).

- Add wxTopLevelWindow::SetRepresentedFilename() (Andrej Vodopivec).

OSX:

- Implement wxRegion::Equal() (Dr.Acula).

- Implement wxFileType::GetOpenCommand().

- wxGetOsVersion() now returns more sensible version numbers, e.g. 10 and 6

for OS X 10.6.

- Added wxApp::MacOpenFiles and deprecated wxApp::MacOpenFile.

- Implement wxEVT\_CHAR\_HOOK event generation in wxOSX/Cocoa.

- Implemented wxComboBox::Popup() and Dismiss() in wxOSX/Cocoa (joostn).

GTK:

- Generate events for two auxiliary mouse buttons in wxGTK (Marcin Wojdyr).

- Fix conflict between wxDIALOG\_NO\_PARENT and wxICON\_EXCLAMATION (David Hart).

MSW:

- Added wxGCDC(wxEnhMetaFileDC) ctor (Marcin Wojdyr).

- Added wxTopLevelWindow::MSWGetSystemMenu().

- Multiline text controls no longer select all content when gaining focus from

the keyboard.

- Implement wxStackWalker for x86-64 (Artur Bać).

2.9.2: (released 2011-07-05)

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All:

- Added cwd and env arguments to wxExecute() (Emilien Kia).

- Added "rest" argument to wxString::Before{First,Last}().

- Added wxThread::OnKill() and OnDelete() callbacks.

- Added wxFile::GetLastError() and ClearLastError() (ryazanov).

- Added negatable command line switches (Armel Asselin).

- Added wxVersionInfo and various GetLibraryVersionInfo() functions (troelsk).

- Added wxNumberFormatter for dealing with thousands separators.

- Added wxIntegerValidator<> and wxFloatingPointValidator<> validators.

- Added wxIMAGE\_OPTION\_GIF\_COMMENT to read and write GIF comments (troelsk).

- Added wxStack<> template class.

- Added precision parameter to wxString::From[C]Double().

- Added wxThread::Wait() and Delete() "wait mode" parameter (Catalin Raceanu).

- Allow showing milliseconds in wxLog time stamps (tan).

- Added support for processing instructions in wxXmlDocument (Nick Matthews).

- Added wxThreadEvent for communicating between threads to wxBase.

Unix:

- Fix spurious errors when writing to child process pipe (ryazanov).

All (GUI):

- Implement support for markup in wxButton and wxStaticText.

- Added wxRichMessageDialog (Rickard Westerlund, GSoC 2010 project).

- Added wxCommandLinkButton (Rickard Westerlund, GSoC 2010 project).

- Added wxUIActionSimulator (Steven Lamerton, GSoC 2010 project).

- Added support for dynamic auto-completion in wxTextEntry.

- Added images support to wxToggleButton (Garrick Meeker).

- wxAUI: support auto-orientable toolbars (wsu).

- wxAUI: add support for icons in pane title bars (triton).

- Added wxPanel::SetBackgroundBitmap().

- Added wxDataViewCtrl::Set/GetCurrentItem().

- Added possibility to disable individual wxDataViewCtrl items (Neno Ganchev).

- wxHTML: render in RTL order inside RTL window (Richard Bullington-McGuire).

- wxRibbon: added EVT\_RIBBONGALLERY\_CLICKED event (John Roberts).

- wxRibbon: allow hiding the panels and showing tabs only (snowleopard).

- Add support for child documents to docview framework.

- Add support for CP-866 encoding to wxEncodingConverter (madnut).

- Consistency fixes for keyboard events across all major ports.

- Added EVT\_RIBBONBAR\_TAB\_LEFT\_DCLICK event (snowleopard).

- Fix display of right aligned columns in wxGenericListCtrl (jl).

- Restore text drag-and-drop in wxSTC broken by Scintilla 2 update (Jens Lody).

- Add support for id ranges to XRC (David Hart).

- Added wxToolbook XRC handler (Andrea Zanellato).

- Added wxDocManager::FindTemplate() (troelsk).

- Return bool, not void, from wxImage::ConvertAlphaToMask() (troelsk).

- Fixed resizing columns in wxGrid when they were reordered.

- Fixed keyboard navigation when wxGrid columns are reordered.

- Added wxImage::Rotate180() (Jeff Tupper).

- Added support for saving TGA files.

- Added wxArtProvider returning higher quality icons from Tango project.

- wxPropertyGrid: Added "HasAlpha" attribute for wxColourProperty.

- wxPropertyGrid: Disabling a property didn't work properly if a child item

was selected (Sébastien Gallou).

- Added support for saving PNG files with palette (troelsk).

- Added support for saving as GIF and animated GIF (troelsk).

- Fix wxWrapSizer minimal size calculation (Catalin Raceanu).

- Added wxFont::Underlined() and MakeUnderlined() methods.

- Added wxFont::SetSymbolicSize() and related methods.

- Fix SVG files generation in locales using decimal comma (snowleopard).

- Fix setting tooltips for generic wxSpinCtrl (Catalin Raceanu).

- Added support for reading image resolutions from PNG images (scottb).

- wxComboCtrl, wxOwnerDrawnComboBox: better support for themed and custom

panel backgrounds, especially on OS X.

- Add WXK\_CONTROL\_A..WXK\_CONTROL\_Z constants (Jan van Dijk).

- Add support for alpha channel in colours in wxSVGFileDC (snowleopard).

- Allow customizing AUI tab colours in wxAuiTabArt (snowleopard).

- Added wxAffineMatrix2D class (Catalin Raceanu).

- Allow showing preview frame non modally (John Roberts).

- Improve appearance of the generic wxHyperlinkCtrl (David Connet).

GTK:

- Improve print/page setup dialog (rafravago).

- Switch to GtkTooltip from deprecated GtkTooltips (Emilien Kia).

- wxTLW generates wxEVT\_MAXIMIZE.

- Fix copying clipboard data to primary selection (David Hart).

- Implement wxGraphicsContext::GetSize() (Marcin Wojdyr).

- Implement wxCalendarCtrl::SetDateRange() for the native control.

MSW:

- Native implementation of wxHyperlinkCtrl and wxProgressDialog under modern

Windows versions (Rickard Westerlund, GSoC 2010 project).

- Fix Cygwin 1.7 build (David Gangola).

- Allow using wxDC::DrawText() with multiline texts.

- Fix wxBitmapButton best size determination broken in 2.9.1.

- Center task dialog-based wxProgressDialog on the parent (John Roberts).

- wxAutomationObject::GetInstance() creates objects on demand (Kolya Kosenko).

- Fix EVT\_UPDATE\_UI generation for items in submenus (wsu).

- Added support for world transformation matrix to wxDC (Catalin Raceanu).

OSX:

- Implement auto-completion support in wxTextEntry.

- Implement switching to default video mode in wxDisplay (soren).

2.9.1:

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INCOMPATIBLE CHANGES SINCE 2.9.0

- wxStandardPaths doesn't use vendor name by default under MSW and OSX to

remain compatible with 2.8 behaviour but this makes it incompatible with

2.9.0. Please use UseAppInfo(AppInfo\_AppName | AppInfo\_VendorName) explicitly

to use the vendor name in the paths returned by wxStandardPaths.

- wxDataViewModel::GetAttr() is now const, as it should have been from the very

beginning. You will need to change it to be const in your derived model

class too if you override it.

All:

- Added wxFileSystemWatcher (Bartosz Bekier, Google Summer of Code project).

- Added wxStd{Input,Output}Stream classes (Jonathan Liu).

- Include port number in host header in wxHTTP (Marcin 'Malcom' Malich).

- Added wxTempFile::Flush().

- Added support for wxLongLong and wxULongLong in wxVariant.

- Added wxVector::swap().

- Many wxLog improvements:

\* wxLogXXX() functions are now thread-safe.

\* Log levels can now be set independently for different log components.

\* wxLog::DoLogRecord() has access to the location of the log message

(file, line and function name) and id of the thread which generated it.

\* SetThreadActiveTarget() allows to set up thread-specific log targets.

- Fix output buffer overflow in wxBase64Decode() (Eric W. Savage).

- Added bilinear image resizing algorithm to wxImage (bishop).

- Fix bug with position argument in wxImage::Size() (Byron Sorgdrager).

- Added wxImage::ClearAlpha() (Javier Torres).

- Fix bug with parsing concatenated switches in wxCmdLineParser (Mike Funduc).

- Added wxMBConv::cMB2WC(wxCharBuffer) and cWC2MB(wxWCharBuffer) overloads.

- Added wxAny class; a modern, backwards-incompatible replacement for

wxVariant.

- wxDateTime timezone functions now dynamic (no caching).

- Added wxHttp::GetCookie and wxHttp::HasCookies (dodge).

- Added support for unique volume names to wxFileName (Neno Ganchev).

- Correct bugs when using wxTextInputStream with wxConvAuto (Leon Buikstra).

- Don't crash when input is empty in wxFileConfig ctor (Lukasz Michalski).

- Correct wxSocket::Peek() to not block (Anders Larsen).

- Added IEC and SI units support to GetHumanReadableSize() (Julien Weinzorn).

- Add convenient wxString::ToStd{String,Wstring}() helpers.

- Added wxTranslations class to allow localization without changing locale.

It provides more flexible languages enumeration API as well.

- Added wxResourceTranslationsLoader for loading translations from Windows

resources.

- Added wxMessageQueue::Clear().

- Added wxConfig::Read(float \*) overload (Terry Farnham).

- Always use decimal point (and not the current locale separator) in wxConfig.

- Fix posting of binary data using wxHTTP (Catalin Raceanu).

Unix:

- Return signed return code from wxExecute(wxEXEC\_SYNC).

- Allow to use WX\_APPNAME\_DATA\_DIR environment var to override the return value

of wxStandardPaths::GetDataDir().

All (GUI):

- Added support for showing bitmaps in wxButton.

- Added wxInfoBar.

- Added stretchable spaces support to wxToolBar.

- Added support for corner, row and column headers renderers to wxGrid.

- wxWindow::SetAutoLayout() now works for all windows, not just panels.

- Support wxListCtrl columns, items and image lists in XRC (Kinaou Hervé).

- Added support for wxFileCtrl to XRC (Kinaou Hervé).

- Added ownfg, ownbg and ownfont tags to XRC.

- Added wxEditableListBox XRC handler.

- Added multiple selection support to wxDirCtrl (Steve Lamerton).

- wxGrid: add possibility to prevent resizing of individual rows/columns.

- wxGrid: allow changing the horizontal alignment of numeric cells.

- wxHTML: add support for table borders width (Laurent Humbertclaude).

- wxHTML: add limited support for span elements styles (Nigel Paton).

- Added wxMouseEventsManager.

- Building OpenGL library is now enabled by default.

- Fixed wxDataViewCtrl::Set{Foreground,Background}Colour().

- Added wxDataViewRenderer::EnableEllipsize().

- Improve wxTreeCtrl::ScrollTo() in generic version (Raanan Barzel).

- Added wxFont::[Make]{Bold,Italic,Smaller,Larger} and Scale[d]() methods.

- Added wxDC::CopyAttributes() and use it in wxBufferedDC.

- Added wxTextWrapper helper class useful for wrapping lines of text.

- Added EVT\_DATAVIEW\_CACHE\_HINT() event (Trigve).

- Added wxLB\_NO\_SB style (implemented for MSW only; Dario Senic).

- Added long version field to wxAboutDialogInfo (Jeff Tupper).

- Added wxWindow::CanScroll() behaving like the old HasScrollbar() and made

HasScrollbar() really check for the scrollbar existence.

- Added wxKeyEvent::IsKeyInCategory() (Jeff Tupper).

- Add A0 and A1 paper formats support (Martin Perktold).

- Fixed wxComboCtrl popup size on Mac (scrollbars were always shown).

- Fixed wxComboCtrl focus problem on Mac (first-time popup

dismissed immediately as text control grabbed the focus).

- wxPropertyGrid: added wxPG\_EX\_MULTIPLE\_SELECTION.

- wxPropertyGrid: added functions for editing property labels.

- wxPropertyGrid: many fixes to property validation failure behaviour. Added

new flags: wxPG\_VFB\_SHOW\_MESSAGEBOX and wxPG\_VFB\_SHOW\_MESSAGE\_ON\_STATUSBAR.

- wxPropertyGrid: Added wxPropertyGrid::DedicateKey().

- wxPropertyGrid: wxArrayStringProperty now uses wxEditableListBox.

- wxPropertyGrid: Added "Delimiter" attribute for wxArrayStringProperty.

- wxPropertyGridManager: added wxPG\_NO\_INTERNAL\_BORDER,

wxPG\_EX\_NO\_TOOLBAR\_DIVIDER and wxPG\_EX\_TOOLBAR\_SEPARATOR styles for finer

control over borders. Borders around property grid are now native for

consistency.

- Added wxPropertyGridManager::ShowHeader().

- Added wxXmlResource::LoadObjectRecursively().

- Added wxColour::Set/GetRGB() and Set/GetRGBA() methods (Marcel Haß).

- wxRTC: added wxRICHTEXT\_HANDLER\_USE\_CSS flag for HTML handler to use CSS

where possible.

- wxRTC: corrected centring and right-justification spacing.

- wxRTC: fixed style selection reset after editing a style.

- wxRTC: can now edit line spacing in .1 increments from 1 to 2.

- wxRTC: added PaintAboveContent function for drawing on top of text.

- Added wxBORDER\_THEME to XRC.

- wxGraphicsContext is now enabled by default if supported by the platform.

- Fix building with using system libpng 1.4 (Volker Grabsch).

- Add wxComboBox::Popup() and Dismiss() methods (Igor Korot).

- Added wxTreeCtrl::SelectChildren() (Nikolay Tiushkov).

- Show pages icons in window list menu in wxAuiNotebook (Ronny Krüger).

- Add "initial selection" parameter to wxGetSingleChoice() (Nikolay Tiushkov).

- Implement wxDocument::Revert() (troelsk).

- Allow overriding print preview frame creation in docview (troelsk).

- Added support for gradient stops in wxGraphicsContext (Kit Bishop).

- Added wxTransparentColour.

- Added wxToolBar::GetToolByPos().

- Added wxProgressDialog::Was{Cancelled,Skipped}() (Julien Weinzorn).

- Added wxTreeCtrl::{Clear,Set}FocusedItem() (Nikolay Tiushkov).

- Added "filter changed" event to wxFileCtrl (Bill Jones).

- wxAUI: update floating window position and not only size on resize (MacGyver).

- Added wxComboCtrl::SetTextCtrlStyle().

- Also update client data in wxRearrangeList control (John Roberts).

- Generate more click events in wxGrid when using native header (John Roberts).

GTK:

- wxRadioBox constructor uses default consistent with other ports now.

- Implement wxMask copy ctor.

- Partially implemented wxTextCtrl::GetStyle() (Igor Romanov).

- Corrected themed border display.

- Fix wxClipboard::GetData() for asymmetric wxDataObjects (Timothy Lee).

Mac:

- Implement wxWindow::ShowWithEffect() in wxOSX/Cocoa.

- Correct min/max pages display in the print dialog (Auria).

- Fix wxDataViewColumn::GetWidth() in Cocoa (Neno Ganchev).

MSW:

- Translate wxMessageDialog labels to the language of the current locale.

- Allow changing the height of wxChoice and wxComboBox.

- Update CRT environment block in wxSetEnv() too.

- Fix wxMDIChildFrame::SetSize() (Lars Rosenboom).

- Fix wxTreeCtrl::UnselectItem() in single selection controls.

- Allow customizing wxStandardPaths logic for program directory determination.

- Use time in wxDateTime <-> SYSTEMTIME conversion (troelsk).

- Setting colours for wxSpinCtrl now works.

- Worked around child window and caret positioning bug (in Windows) when using

wxBORDER\_THEME in a container window.

- Suppressed spurious character event for decimal key in numeric keypad.

- Allow to not create wxPaintDC in EVT\_PAINT handler.

- Fix sending of wxEVT\_COMMAND\_LIST\_COL\_DRAGGING events in wxListCtrl.

- Allow putting the UAC symbol on buttons (Chris Spencer).

- Fix wxTaskBarIcon for older Windows systems (Daniel Wyatt).

- Fixed wxOwnerDrawnComboBox keyboard handling: drop-down is no longer

displayed when arrow key is pressed (without Alt).

- In some rare cases wxOwnerDrawnComboBox drop-down animation could display

as garbage. This has now been greatly reduced (mcben).

- Fixed wxComboCtrl::SetButtonPosition() on Vista/Win7.

- Allow accessing 64/32 bit registry from 32/64 bit code (Rickard Westerlund).

i18n:

- Korean translations added (Sungkee Jung).

- Romanian translations added (Manuel Ciosici).

2.9.0

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All:

- Added (experimental) IPv6 support to wxSocket (Arcen).

- Cleaned up wxURI and made it Unicode-friendly.

- Add support for wxExecute(wxEXEC\_ASYNC) in wxBase (Lukasz Michalski).

- Added wxXLocale class and xlocale-like functions using it.

- Added wxMessageQueue class for inter-thread communications

- Use UTF-8 for Unicode data in wxIPC classes (Anders Larsen)

- Added support for user-defined types to wxConfig (Marcin Wojdyr).

- Added numeric options support to wxCmdLineParser (crjjrc)

- Added wxJoin() and wxSplit() functions (Francesco Montorsi).

- Added wxDateTime::FormatISOCombined() and ParseISODate/Time/Combined()

- Added wxMutex::LockTimeout() (Aleksandr Napylov).

- Added wxMemoryInputStream(wxInputStream&) ctor (Stas Sergeev).

- Implemented wxMemoryInputStream::CanRead().

- Implemented wxMemoryFSHandler::FindFirst/Next().

- Added wxEventLoop::DispatchTimeout().

- Added wxZlibStream::SetDictionary() (Axel Gembe).

- Added wxEXEC\_BLOCK flag (Hank Schultz).

- Add support for wxStream-derived classes to wxRTTI (Stas Sergeev).

- Added wxStreamBuffer::Truncate() (Stas Sergeev).

- Allow using wxEventLoop in console applications (Lukasz Michalski).

- Added functions for Base64 en/decoding (Charles Reimers).

- Added support for binary data to wxConfig (Charles Reimers).

- Added functions for atomically inc/decrementing integers (Armel Asselin).

- wxLogInterposer has been added to replace wxLogPassThrough and new

wxLogInterposerTemp was added.

- Added support for broadcasting to UDP sockets (Andrew Vincent).

- Documentation now includes the wx library in which each class is defined.

- wxrc --gettext now generates references to source .xrc files (Heikki

Linnakangas).

- wxVariant::Unshare allows exclusive allocation of data that must be shared,

if the wxVariantData::Clone function is implemented.

- Added wxWeakRef<T>, wxScopedPtr<T>, wxScopedArray<T>, wxSharedPtr<T> templates

and renamed old wx/ptr\_{scpd,shrd}.h headers to wx/scoped{ptr,array}.h and

wx/sharedptr.h (but old headers are still provided for compatibility).

- Added wxVector<T> class templates

- Added wxON\_BLOCK\_EXIT\_SET() and wxON\_BLOCK\_EXIT\_NULL() to wx/scopeguard.h.

- Added wxEvtHandler::QueueEvent() replacing AddPendingEvent() and

wxQueueEvent() replacing wxPostEvent().

- wxString now uses std::[w]string internally by default, meaning that it is

now thread-safe if the standard library provided with your compiler is.

- Added wxCmdLineParser::AddUsageText() (Marcin 'Malcom' Malich).

- Fix reading/writing UTF-7-encoded text streams.

- Corrected bug in wxTimeSpan::IsShorterThan() for equal time spans.

- Use std::unordered\_{map,set} for wxHashMap/Set if available (Jan van Dijk).

- Added wxString::Capitalize() and MakeCapitalized().

- Added wxArray::swap().

- Added wxSHUTDOWN\_LOGOFF and wxSHUTDOWN\_FORCE wxShutdown() flags (troelsk).

- Added wxSocket::ShutdownOutput().

- Handle exceptions thrown from overridden wxView::OnCreate() gracefully.

- Added wxPATH\_RMDIR\_FULL/RECURSIVE wxFileName::Rmdir() flags (Marcin Malich).

- Added wxStandardPaths::GetAppDocumentsDir().

- Added wx-prefixed versions of DECLARE\_NO\_{COPY,ASSIGN}\_CLASS macros.

- Added wxFileName::ReplaceEnvVariable and wxFileName::ReplaceHomeDir.

- Added wxProtocol::SetDefaultTimeout(); the default timeout for both wxHTTP and wxFTP

protocols is 60 seconds.

- Added wxStrnlen() for safe computation of string length.

- Added wxImage::Clear() (troelsk).

- Added wxLog::Log().

- Added wxProtocolLog and use it in wxFTP.

- Added wxXmlResource::GetResourceNode().

- Optimize wxString::Replace() to use an O(N) algorithm (Kuang-che Wu).

- Added support of %l format specifier to wxDateTime::ParseFormat().

- wxImage handlers can now support multiple extensions (Ivan Krestinin).

- Added wxFileName::StripExtension() (troelsk).

- Added wxLOCALE\_DATE/TIME\_FMT support to wxLocale::GetInfo().

- Store page setup data directly in wxDocManager (troelsk).

All (Unix):

- Added wx-config --optional-libs command line option (John Labenski).

- Noticeably (by a factor of ~150) improve wxIPC classes performance.

- Configure options --with-opengl and --enable-mediactrl now default to "auto":

if OpenGL and GStreamer libraries are available the "gl" and "media" wx libraries

are automatically built.

All (GUI):

- Added wxDataViewCtrl class and helper classes.

- Integrated wxPropertyGrid in wxWidgets itself (Jaakko Salli).

- Provide native implementation of wxCalendarCtrl under wxMSW and wxGTK.

- Added wxHeaderCtrl and allow using it in wxGrid.

- Added wxRearrangeList, wxRearrangeCtrl and wxRearrangeDialog.

- Added {wxTextCtrl,wxComboBox}::AutoComplete() and AutoCompleteFileNames().

- Added wxH[V]ScrolledWindow (Brad Anderson, Bryan Petty).

- Added wxNotificationMessage class for non-intrusive notifications.

- Added wxWindow::Show/HideWithEffect().

- Added wxWrapSizer (Arne Steinarson).

- Added wxSpinCtrlDouble (John Labenski).

- Support custom labels in wxMessageDialog (Gareth Simpson for wxMac version).

- Added wxScrolledWindow::ShowScrollbars().

- Also added wxCANCEL\_DEFAULT to wxMessageDialog.

- Allow copying text in the log dialogs.

- Added multisample (anti-aliasing) support to wxGLCanvas (Olivier Playez).

- Added wxEVT\_COMMAND\_COMBOBOX\_DROPDOWN/CLOSEUP events (Igor Korot).

- Added wxCAL\_SHOW\_WEEK\_NUMBERS wxCalendarCtrl style (Sören Meyer-Eppler).

- Initialize wx{Client,Paint,Window}DC with fonts/colours of its window.

- Added wxNativeContainerWindow to allow embedding wx into native windows.

- Added custom controls support to wxFileDialog (Diaa Sami and Marcin Wojdyr).

- Added wxDC::StretchBlit() for wxMac and wxMSW (Vince Harron).

- Added support for drop down toolbar buttons (Tim Kosse).

- Added support for labels for toolbar controls (Vince Harron).

- Added wxMessageDialog::SetMessage() and SetExtendedMessage().

- Added wxListCtrl::Set/GetColumnsOrder() (Yury Voronov).

- Added wxTextEntry::SetHint().

- Made wxLogWindow thread-safe (Barbara Maren Winkler).

- Added wxWindow::AlwaysShowScrollbars() (Julian Scheid).

- Added wxMouseEvent::GetClickCount() (Julian Scheid).

- Added wxBG\_STYLE\_TRANSPARENT background style (Julian Scheid).

- Added support for drop-down toolbar buttons to XRC.

- Added XRCSIZERITEM() macro for obtaining sizers from XRC (Brian Vanderburg II).

- New and improved wxFileCtrl (Diaa Sami and Marcin Wojdyr).

- Added wxEventBlocker class (Francesco Montorsi).

- Added wxFile/DirPickerCtrl::Get/SetFile/DirName() (Francesco Montorsi).

- Added wxSizerFlags::Top() and Bottom().

- Fixed tab-related drawing and hit-testing bugs in wxRichTextCtrl.

- Implemented background colour in wxRichTextCtrl.

- Fixed crashes in helpview when opening a file.

- Set locale to the default in all ports, not just wxGTK.

- Added wxJoystick::GetButtonState/Position() (Frank C Szczerba).

- Added wxGridUpdateLocker helper class (Evgeniy Tarassov).

- Support wxGRID\_AUTOSIZE in wxGrid::SetRow/ColLabelSize() (Evgeniy Tarassov).

- Added wxWindow::NavigateIn() in addition to existing Navigate().

- Add support for <data> tags to wxrc.

- Support wxAPPLY and wxCLOSE in CreateStdDialogButtonSizer() (Marcin Wojdyr).

- Show standard options in wxCmdLineParser usage message (Francesco Montorsi).

- Added wxRect::operator+ (union) and \* (intersection) (bdonner).

- Added support for two auxiliary mouse buttons to wxMouseEvent (Chris Weiland).

- Added wxToolTip::SetAutoPop() and SetReshow() (Jan Knepper).

- Added wxTaskBarIcon::Destroy().

- Added XRC handler for wxSearchCtrl (Sander Berents).

- Read image resolution from TIFF, JPEG and BMP images (Maycon Aparecido Gasoto).

- Add support for reading alpha data from TIFF images.

- Added wxSYS\_DCLICK\_TIME system metric constant (Arne Steinarson).

- Added wxApp::Get/SetAppDisplayName() (Brian A. Vanderburg II).

- Added wxWindow::GetPopupMenuSelectionFromUser() (Arne Steinarson).

- Implemented wxTreeCtrl::GetPrevVisible() in the generic version and made the

behaviour of GetNextSibling() consistent between wxMSW and generic versions.

- Merged wxRichTextAttr and wxTextAttrEx into wxTextAttr, and added a font table

to wxRichTextBuffer to reduce wxFont consumption and increase performance.

- Optimize wxGenericTreeCtrl::Collapse/ExpandAllChildren()

(Szczepan Holyszewski).

- Added <scrollrate> parameter to wxScrolledWindow XRC handler.

- Added support for automatic dialog scrolling, via the new

wxDialogLayoutAdapter class and various new wxDialog functions. See the

topic "Automatic Scrolling Dialogs" in the manual for further details.

- Added support for resizing wxWizard bitmaps to the current page height,

via SetBitmapPlacement, SetBitmapBackgroundColour and SetMinimumBitmapWidth.

Also made it easier to derive from wxWizard and override behaviour.

- Made wxSizer::Fit() set the client size of the target window.

- Add support for wxDatePickerCtrl in wxGenericValidator (Herry Ayen Yang)

- Added wxWindow::HasFocus().

- Added wxGLCanvas::IsDisplaySupported().

- Added wxApp::SetNativeTheme() (Stefan H.).

- Made wxSpinCtrl::Reparent() in MSW and generic versions (Angelo Mottola).

- Freeze() and Thaw() now recursively freeze/thaw the children too.

- Generalized wxScrolledWindow into wxScrolled<T> template that can derive

from any window class, not just wxPanel.

- Allow having menu separators with ids != wxID\_SEPARATOR (Jeff Tupper)

- Fix appending items to sorted wxComboCtrl after creation (Jaakko Salli)

- Don't blit area larger than necessary in wxBufferedDC::UnMask (Liang Jian)

- Fixed wxPixelData<wxImage> compilation (Leonardo Fernandes).

- Added wxImage::GetType() (troelsk).

- Added wxGenericStaticBitmap suitable for display of large bitmaps.

- Support wxListCtrl::GetViewRect() in report view too.

- Implement wxListCtrl::GetSubItemRect() in generic version (David Barnard).

- Add column parameter to wxListCtrl::GetItemText() (Allann Jones).

- Added wxVListBox::GetItemRect() (Javier Urien).

- Show busy cursor in wxLaunchDefaultBrowser and add wxBROWSER\_NOBUSYCURSOR.

- Added wxFlexGridSizer::Is{Row,Col}Growable() (Marcin Wojdyr).

- Added "enabled" and "hidden" attributes to radio box items in XRC.

- wxWindow::IsBeingDeleted() now returns true not only if the window itself is

marked for destruction but also if any of its parent windows are.

- Improved drawing of the hint during column move in wxGrid (Santo Pfingsten).

- Add wxGridSelectRowsOrColumns selection mode to wxGrid.

- Add wxEVT\_GRID\_CELL\_CHANGING event matching wxEVT\_GRID\_CELL\_CHANGED.

- Get/HasModifiers() of wxKeyEvent are now also available in wxMouseEvent.

- Provide new/old cell value in wxEVT\_GRID\_CELL\_CHANGING/CHANGED events.

- Added wxArtProvider::GetNativeSizeHint(); GetSizeHint() as well as

GetNativeSizeHint() now return more sensible values in wxMSW and wxMac and

no longer return bogus values.

- Added wxControl::SetLabelText() and EscapeMnemonics().

- Added support for wxFILTER\_EMPTY and wxFILTER\_DIGITS styles to wxTextValidator;

added also the SetCharIncludes() and SetCharExcludes() utilities.

- Added wxIMAGE\_OPTION\_PNG\_FILTER and many wxIMAGE\_OPTION\_PNG\_COMPRESSION\_\* options

to wxImage and wxPNGHandler to allow for custom compression levels when saving PNGs

(Perdana Panduwana)

- Added GetValue(), GetRange(), GetMessage() functions to wxProgressDialog

- Moved yield functions to wxEventLoopBase and implemented for wxMSW and wxGTK

a selective wxEventLoopBase::YieldFor() function.

Added also wxEventLoopBase::IsYielding to help cure re-entrancy problems with Yield().

- Render <th> element contents in bold in wxHTML.

- Added wxGrid::{Set,Get}{Row,Col}Sizes() methods (Andrey Putrin).

- Add support for wxSP\_WRAP in the generic version of wxSpinCtrlDouble.

- Add alignment flags support to wxSpinCtrl[Double] (Andrew Radke).

- Added wxGetSelectedChoices() replacing wxGetMultipleChoices() (Kolya Kosenko).

- Check whether document fits into page horizontally in wxHtmlPrintout, see the

new CheckFit() method for more information.

- Allow reading GIFs with incorrectly specified animation size.

- Return number of frames in animated GIF from wxGIFHandler::GetImageCount().

- Improved anchors handling in wxHTML.

wxGTK:

- Support for markup and ellipsization in wxStaticText (Francesco Montorsi).

- Ellipsize long strings in wxStatusBar (Francesco Montorsi)

- Native implementation for wxHyperlinkCtrl (Francesco Montorsi).

- Native keyboard navigation implementation.

- Added wxCB\_SORT support to wxComboBox (Evgeniy Tarassov).

- Don't overwrite primary selection with clipboard and vice versa.

- Implemented support for underlined fonts in wxStaticText.

- wxTopLevelWindow::SetSizeHints size increments now work.

- wxTopLevelWindow::GetSize() returns the size including the WM decorations.

- wxTopLevelWindow::GetClientSize() returns 0x0 when the window is minimized.

- Added support for colour cursors (Pascal Monasse).

- Pass current control text to EVT\_TEXT handler for wxSpinCtrl (John Ratliff).

- Added gtk.tlw.can-set-transparency system option.

- Added support for GTK+ print backend

- Fix changing font/colour of label in buttons with images (Marcin Wojdyr).

- Fix wxDC::Blit() support for user scale and source offset (Marcin Wojdyr).

wxMac:

- Better IconRef support (Alan Shouls).

- Fix duplicate (empty) help menu in non-English programs (Andreas Jacobs).

- Allow accelerators to be used with buttons too (Ryan Wilcox).

- Support resource forks in wxCopyFile() (Hank Schultz).

- Implement wxLocale::GetInfo() using CFLocale.

- Native wxCollapsiblePane implementation.

wxMSW:

- Fix many problems with selection in multi-selection wxTreeCtrl (Jonathan Liu).

- Fixed infinite loop in wxThread::Wait() in console applications.

- Return the restored window size from GetSize() when window is minimized.

- wxCheckListBox now looks more native, especially under XP (Marcin Malich).

- wxCheckListBox now also supports use of client data (Marcin Malich).

- Allow tooltips longer than 64 (up to 128) characters in wxTaskBarIcon

- Fix centering wxFileDialog and allow positioning it.

- Allow centering wxMessageDialog on its parent window (troelsk).

- Use vertical scrollbar in wxMessageDialog if it's too big to fit on screen.

- Show resize gripper on resizable dialogs (Kolya Kosenko).

- Implement support for display enumeration under WinCE (Vince Harron).

- Use different Win32 class names in different wx instances (Thomas Hauk).

- Support multiline labels for wxCheckBox and wxToggleButton.

- Print preview is now rendered in the resolution used by printer and

accurately represents what will be printed. This fixes wxHtmlEasyPrinting

preview inaccuracies on Windows; on other platforms, native preview

should be used.

- Implement wxFileName::SetTimes() for directories (Steve Lamerton).

- Added wxToolTip::SetMaxWidth() and improved default wrapping (Joachim Hönig).

- Changed default toolbar bitmaps size from obsolete 16x15 to 24x24 used

by modern apps.

- Ellipsize long strings in wxStatusBar (Francesco Montorsi)

- Fix spurious repaint when changing tooltip text (Jonathan Liu).

- Fix wxSP\_WRAP and wxSP\_ARROW\_KEYS in wxSpinCtrlDouble (Andrew Radke).

wxX11:

- Added mouse wheel support (David Hart).

- Make Enter key activate the default button (David Hart).

wxDFB:

- Implement wxBitmap ctor from XBM data.

i18n:

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- Slovak translations added (Ivan Masár).

2.8.10:

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All:

- wxHashMap::insert() doesn't update the value if it didn't insert the element

any more (Marcin Malich).

- Correct bug in wxTimeSpan::Format() for negative spans.

- Correct several bugs in wxList using end() iterators (Suzumizaki-Kimitaka).

- Added Vietnamese translation (Tran Ngoc Quan).

- Updated Slovenian translation (Martin Srebotnjak).

- Corrected Serbian locale name (Cody Precord).

- Fix wxURL::GetInputStream() for URLs with special characters in credentials

(Robert Wruck).

- Fix wxURI::GetUser() for URIs without password.

- Correct wxDateTime DST computation for 2006 and later (Christopher Barker).

All (GUI):

- wxRTC: fixed input that uses Alt on Mac OS X, for example Polish Pro input.

Also fixed a bug whereby e.g. Croatian keys didn't work, by moving more code

to key down handler.

- wxRTC: fixed a problem with HTML list generation.

- wxRTC: no longer deletes a character when content is selected before

pressing Delete.

- wxRTC: fixed inability to select no superscript and no subscript in

formatting dialog.

- wxRTC: fixed centering and right-justification when combined with left

indentation.

- wxRTC: fixed lack of right margin when centering or right-justifying.

- wxRTC: fixed wrong descent when wrapping lines with different font sizes.

- wxRTC: fixed wrapping problem for long lines.

- wxRTC: all buffer margins now respected.

- wxRTC: Added wxRE\_CENTRE\_CARET to centre the caret line vertically.

- Fixed wxHTML's pagebreaks computation in tables (D.J.Stauffer).

- Fixed wxHtmlWindow::SelectionToText() to correctly insert newlines after

single-cell paragraphs.

- Fixed wxHTML's line breaks handling in <pre> blocks broken in 2.8.8 (#10120).

- wxHTML: don't include extra whitespace in table cells.

- Implemented wxWindow::DragAcceptFiles() on all platforms.

- Added wxAUI\_MGR\_LIVE\_RESIZE flag to wxAuiManager and made it the default on

wxMac with CoreGraphics where sash drawing isn't implemented.

- Use bitmap mask in wxSplashScreen.

- Translate "(c)" and "(C)" to the real copyright sign in wxAboutBox.

- Fix painting of highlight border for merged cells in wxGrid (K. Jones).

- Fix handling of long lines in wxGridCellAutoWrapStringRenderer.

All (Unix):

- Return false from wxSingleInstanceChecker::IsAnotherRunning() if an error

occurred while opening or reading the lock file (Lauri Nurmi).

wxMSW:

- Fixed bug with using non default encoding in wxTextCtrl in ANSI build.

- Restored generation of events for accelerators when there is no menu bar.

- Fixed wxArtProvider::GetSizeHint() to return 16x16 for wxART\_FRAME\_ICON.

- Fixed toolbar buttons so that they don't disappear temporarily when clicked

if the event handler causes window update.

- Fix display enumeration under WinCE (Vince Harron).

- Fix best size calculation for wxNotebook with multiple rows (Alex McCarthy).

- Correct coordinates of wxDropFilesEvent (Dmitriy Maksimov).

- Fix handling of abandoned mutexes in wxMutex (David Heffernan).

- Avoid warnings about deprecated localtime with MSVC8/9 (Chris Stankevitz).

- Fixed invisible CHM tooltip text bug when window text colour is black.

- Automatically adjust toolbar's tool size if the provided bitmaps

don't fit into the default size.

- Don't generate EVT\_LISTBOX\_DCLICK events with incorrect indices.

- Don't reuse the double click handled by activation event handler for toggling

the item in wxTreeCtrl.

wxMSW/CE:

- Don't hardcode the menu bar height (Michele Spighi).

wxGTK:

- Fixed printing to use fonts sizes adjustment consistent with wxMSW.

- Make colours used by list, tree and status bar controls more consistent with

the system theme settings (Tim Kosse).

- Worked around bug in GTK+ < 2.14 where enabling some controls such

as wxButton didn't re-enable sensitivity until the mouse was moved.

wxOS2:

- Added implementation for wxSingleInstanceChecker contributed by Lauri Nurmi

2.8.9

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All:

- Optimize wxString::Replace() for single character arguments.

- Updated Hindi translation (Priyank Bolia).

- Use tr1::unordered\_{map,set} for wxHash{Map,Set} implementation if available

in STL build; in particular do not use deprecated hash\_{map,set} which

results in a lot of warnings from newer g++ (Jan Van Dijk and Pete Stieber).

All (GUI):

- Added support for reading alpha channel in BMP format (Kevin Wright).

- Fixed help viewer bug whereby the splitter sash in wxHtmlHelpWindow could

go underneath the left-hand pane, permanently, after resizing the

help window.

- Fixed wxHTML default font size for printing to be 12pt regardless of the

platform, instead of depending on GUI toolkit's screen configuration.

- Support wxDP\_ALLOWNONE style in generic wxDatePickerCtrl version.

- Set wxKeyEvent::m\_uniChar correctly in the events generated by generic

wxListCtrl (Mikkel S).

- Fix changing size of merged cells in wxGrid (Laurent Humbertclaude).

- Fixed wrapping bug in wxRichTextCtrl when there were images present;

now sets the cursor to the next line after pressing Shift+Enter.

- Fixed Cmd+Back, Cmd+Del word deletion behaviour in wxRichTextCtrl.

- Fix crash when reading malformed PCX images.

- Fix bug with wrong transparency in GIF animations (troelsk).

- Store palette information for XPM images in wxImage (troelsk).

- Fixed selection bugs and auto list numbering in wxRichTextCtrl.

- Significantly optimize wxGrid::BlockToDeviceRect() for large grids (kjones).

- Introduced new wxAuiToolBar class for better integration and look-and-feel.

- Fix a crash in wxAuiFrameManager when Update() was called in between mouse-up

and mouse-down events

- wxAUI: added various NULL-ptr asserts.

- Fixed problem with Floatable(false) not working in wxAuiFrameManager.

- Fixed maximize bug in wxAUI.

- Allow period in link anchors in wxHTML.

- Fixed memory corruption in wxHTML when parsing "&;" in the markup.

- Fixed event type in EVT\_GRID\_CMD\_COL\_MOVE and EVT\_GRID\_COL\_MOVE.

- wxGrid doesn't steal focus when hiding editor any more (Tom Eckert).

All (Unix):

- MIME types reading fixed when running under GNOME, reading .desktop

files and also the default application list.

- Added filesys.no-mimetypesmanager system option so that applications that

must load an XRC file at program startup don't have to incur the

mime types manager initialization penalty.

wxMSW:

- Potentially incompatible change: wxExecute() arguments are now quoted if they

contain spaces and existing quotes are escaped with a backslash. However, to

preserve compatibility, the argument is unchanged if it is already quoted.

Notice that this behaviour will change in wxWidgets 3.0 where all arguments

will be quoted, please update your code now if you are affected and use only

wxWidgets 2.8.9 or later.

- Fix keyboard support in wxSpinCtrl broken in 2.8.8.

- Compile fix for WinCE in window.cpp (no VkKeyScan in Windows CE).

- Support disabling items before adding them to the menu (Christian Walther).

- Allow to call SetFont(wxNullFont) to reset the font to default.

- Implement UUID::operator==() and !=() (SQLAware Corporation).

- Fixed long standing (introduced in 2.6.3) bug which resulted in always

creating a DIB and not DDB in wxBitmap(const wxImage&) ctor.

- Fix the bug with wxFileDialog not being shown at all if the default file name

was invalid.

- Fix hang in keyboard navigation code with radio buttons under Windows 2000.

- Implement wxWinINetInputStream::GetSize() (spicerno).

- Always copy "has alpha" flag when copying bitmaps (SQLAware Corporation).

wxGTK:

- Fixed masking of disabled bitmaps in wxMenuItem and wxStaticBitmap.

- Fixed generation of events for an initially empty wxDirPickerCtrl.

- Fixed detection of Meta key state so that NumLock isn't misdetected

as Meta (requires GTK+ 2.10).

- Fix changing font/colour of label in buttons with images (Marcin Wojdyr).

wxMac:

- Fixed a glitch where clicking on a scrollbar (but not moving the scrollbar)

would cause the window to scroll.

2.8.8

-----

All:

- Fixed bug with parsing some dates in wxDateTime (Bob Pesner).

- Fixed bug with parsing negative time zones in wxDateTime::ParseRfc822Date().

- Initialize current line in wxTextBuffer ctor (Suzuki Masahiro).

- Improved performance of XML parsing (Francesco Montorsi).

- Fix wxDateTime::ParseRfc822Date() to handle missing seconds (Joe Nader).

All (GUI):

- Added wxWindow::GetNextSibling() and GetPrevSibling().

- Support wxGRID\_AUTOSIZE in wxGrid::SetRow/ColLabelSize() (Evgeniy Tarassov).

- Ensure that wxGrid::AutoSizeColumn/Row() never sets column/row size

smaller than the minimal size.

- Added <scrollrate> parameter to wxScrolledWindow XRC handler.

- wxRichTextCtrl performance has been improved considerably.

- Several wxRichTextCtrl style, paste and undo bugs fixed.

- Added wxRichTextCtrl superscript and subscript support (Knut Petter Lehre).

- wxNotebook RTTI corrected, so now wxDynamicCast(notebook, wxBookCtrlBase)

works.

- When focus is set to wxScrolledWindow child, scroll it into view.

- Improve wximage::ResampleBox() (Mihai Ciocarlie).

- Implemented ScrollList() in generic wxListCtrl (Tim Kosse).

- SaveAs in docview takes into account path now.

- Fixed wxXmlResource::GetText() to convert data to current locale's

charset in ANSI build.

- wxGrid now indicates focus by using different colour for selection

and hiding cell cursor when it doesn't have focus.

- Added alpha support to wxImage::Paste() (Steven Van Ingelgem)

- Use current date when opening popup in generic wxDatePickerCtrl.

- Remove associated help text from wxHelpProvider when a window is destroyed.

- Added wxSizerFlags::ReserveSpaceEvenIfHidden() and

wxRESERVE\_SPACE\_EVEN\_IF\_HIDDEN sizer flag.

- Added wxWindow::ClientToWindowSize() and WindowToClientSize() helpers.

- Added wxSizer::ComputeFittingClientSize() and ComputeFittingWindowSize().

- Fixed wxSizer::SetSizeHints() to work when the best size decreases.

- Fixed crash in wxHtmlHelpController if the help window is still open.

- Fixed generic art provider to scale bitmaps down to client-specific

best size if needed.

- Made wxSpinCtrl::Reparent() in MSW and generic versions (Angelo Mottola).

- Fixed timing of malformed animated GIFs in wxHTML (Gennady Feller).

- Fixed incorrect layout width caching in wxHTML (Jeff Tupper).

- wxHTML: preserve TAB characters when copying <pre> content to clipboard.

- Set focus to wxCalendarCtrl when it is clicked.

- Don't clear the list control when wxLC\_[HV]RULES style is toggled.

- Don't crash when Ctrl-Shift-T is pressed in empty wxStyledTextControl.

All (Unix):

- Fixed shared libraries to not depend on GStreamer when built with

--enable-media; only wxMedia library depends on it now.

- wxLaunchDefaultBrowser() now uses xdg-open if available.

- Don't close UDP socket if an empty datagram is received (Mikkel S)

- Honour locale modifiers such a "@valencia" in system locale (Tim Kosse)

wxMSW:

- Fix rare bug with messages delivered to wrong wxSocket (Tim Kosse).

- Fix setting icons when they have non-default (16\*16 and 32\*32) sizes.

- Fixed wxLocale::GetInfo to use the C locale.

- Don't enable disabled windows when showing them (Harry McKame).

- Fix assert when using owner-drawn menu items with the newest (Vista) SDK.

- Fixed wxTextCtrl to not process clipboard events twice if there's

a custom wxEVT\_COMMAND\_TEXT\_\* event handler.

- Fix wxComboBox to not lose the current value if it was programmatically set

to a value not in a list of choices on popup close (Kolya Kosenko)

- Switching wxListCtrl to report mode from another one now uses full row

highlight, just as if the control were created in report mode initially.

- Use correct index of the right-clicked column in wxListCtrl in the

corresponding event even when the control is scrolled horizontally.

- Implement wxRadioBox::Reparent() correctly (Vince Harron).

- Make context sensitive help work for the text part of wxSpinCtrl.

- wxFileType::GetCommand() now looks at Explorer associations and CurVer

for increased reliability and conformance to user expectations.

- Fixed double Init() call in wxTopLevelWindow causing a memory leak on

SmartPhone.

- Fixed rendering of borders for wxTextCtrl with wxTE\_RICH(2) style when

using Windows XP's Classic UI theme.

- Text controls with wxTE\_RICH style now also generate wxClipboardTextEvents.

- Fixed wxEVT\_COMMAND\_TEXT\_ENTER generation in wxSpinCtrl.

- Fixed wxSpinCtrl::GetClientSize() to return sensible value and not just

spin button's client size.

- Fixed IMPLEMENT\_APP() to be compatible with the -WU flag of Borland C++

compiler (Matthias Bohm).

- Correct size calculation for toolbars containing controls under pre-XP

systems (Gerald Giese)

wxGTK:

- Return false from wxEventLoop::Dispatch() if gtk\_main\_quit() was called and

so the loop should exit (Rodolfo Schulz de Lima).

- Implement wxListBox::EnsureVisible() (Andreas Kling)

- Fixed wxCURSOR\_HAND to map to GDK\_HAND2 and not GDK\_HAND1, for consistency

with other applications.

- Fix wxNotebook::GetPage{Text,Image}() when they were called from the page

change event handler for the first added page (Mikkel S).

- Fixed wxBitmapButton to use focus and hover bitmaps correctly.

- Fixed race condition which could cause idle processing to stop without

processing all pending events.

- wxAcceleratorTable now works with buttons too.

wxMac:

- Fixed cursor for wxBusyCursor and wxContextHelp.

- Fixed wxListCtrl to respect items' non-default fonts.

- wxListCtrl::SetColumnWidth() now supports wxLIST\_AUTOSIZE.

- Fixed handling of transparent background in borderless wxBitmapButton.

2.8.7

-----

All:

- Fixed bug with default proxy destruction in wxURL (Axel Gembe).

wxMSW:

- Correct (harmless) warnings given for forward-declared DLL-exported classes

by mingw32 4.2 (Tim Stahlhut).

wxGTK:

- Added gtk.window.force-background-colour wxSystemOptions option to work around

a background colour bug in the gtk-qt theme under KDE.

- Implemented wxGetClientDisplayRect() correctly for wxGTK and X11-based ports.

2.8.6

-----

All:

- Fixed another bug in wxFileConfig when deleting entries (Axel Gembe)

- Added Portuguese translation (Antonio Cardoso Martins)

2.8.5

-----

All (GUI):

- Added colour normalization to PNM image handler (Ray Johnston)

- Fixed selecting part of word from right to left in wxHTML (Michael Hieke)

- Selecting text in wxHTML with character precision was made easier, it's

enough to select half of a character (Michael Hieke)

- Significantly improved startup times of XRC-based applications using

embedded resources on Unix (requires resources recompilation)

- Fixed freeing of "static" alpha data in wxImage (Axel Gembe)

- Don't invalidate the font in SetNativeFontInfo[Desc]() if the string is

invalid, to conform to the documented behaviour (Langhammer)

- Fixed wxXPMHandler::SaveFile for images with more than 92 colors.

wxMSW:

- Correct problem with page setup dialog when using landscape mode

- Added msw.font.no-proof-quality system option, see manual for description

- Fix appearance of notebook with non-top tabs under Windows Vista

- Fixed bug with symbol resolving in wxStackWalker (Axel Gembe)

- Fixed showing busy cursor for disabled windows and during wxExecute()

- Set the string of wxEVT\_COMMAND\_CHECKLISTBOX\_TOGGLED events (Luca Cappa)

- Fix problems with timers on SMP machines in wxAnimationCtrl (Gennady)

wxGTK:

- Setting foreground colour of single line wxTextCtrl now works

- More work on setting defaults in GNOME print dialogs.

- Also made landscape printing work as per wxMSW.

- Add support for clipping in GNOME print backend.

- Speed up wxBitmap::Rescale()

- Add right button event for wxToolbar's tools (Tim Kosse)

- Don't unconditionally add wxCAPTION style to wxMiniFrame

- Generate wxEVT\_COMMAND\_LIST\_END\_LABEL\_EDIT event even if label didn't change

- Fix WX\_GL\_STEREO attribute handling (Tristan Mehamli)

- Fix wxThread::SetPriority() when the thread is running (Christos Gourdoupis)

- Fixed off by 1 bug in wxDC::GradientFillLinear() (Tim Kosse)

2.8.4

-----

All:

- Fix bug in wxFileConfig when recreating a group (Steven Van Ingelgem)

- Fix wxStringOutputStream::Write() in Unicode build when the argument

overlaps UTF-8 characters boundary

- Account for lines without newline at the end in wxExecute()

All (Unix):

- Handle socket shutdown by the peer correctly in wxSocket (Tim Kosse)

All (GUI):

- Allow status bar children in XRC (Edmunt Pienkowski)

- Fix memory leak in wxWizard when not using sizers for the page layout

- Added wxListCtrl::SetItemPtrData()

- wxHTML: Apply table background colour between the cells too (Michael Hieke)

wxMSW:

- Corrected wxStaticBox label appearance when its foreground colour was set:

it didn't respect font size nor background colour then (Juan Antonio Ortega)

- Don't lose combobox text when it's opened and closed (Kolya Kosenko)

- Corrected GetChecked() for events from checkable menu items (smanders)

- Fixed popup menus under Windows NT 4

- Fixed bug in wxThread::Wait() in console applications introduced in 2.8.3

- Support right-aligned/centered owner drawn items in wxListCtrl (troelsk)

- Compilation fixed with WXWIN\_COMPATIBILITY\_2\_6==0

- Fix wxComboCtrl colours under Windows Vista (Kolya Kosenko)

wxGTK:

- Fix infinite loop when adding a wxStaticText control to a toolbar

- Fix wxNO\_BORDER style for wxRadioBox (David Hart)

- Fix wxTextCtrl::GetLineText() for empty lines (Marcin Wojdyr)

wxMac:

- Fix wxComboBox::SetSelection(wxNOT\_FOUND) (Adrian Secord)

wxUniv:

- Fix wxTextCtrl::SetSelection(-1, -1) to behave as documented (Anders Larsen)

- Fix wxComboBox::SetSelection(wxNOT\_FOUND)

- Fix setting background colour for controls with transparent background

2.8.3

-----

All:

- Shut down the sockets gracefully (Sergio Aguayo)

- Fix extra indentation in wxHTML\_ALIGN\_JUSTIFY display (Chacal)

wxMac:

- Corrected top border size for wxStaticBox with empty label (nusi)

wxMSW:

- Fixed wxFileName::GetSize() for large files

wxGTK:

- Fixed handling of accelerators using PageUp/Down keys

2.8.2

-----

All:

- Added wxSizerFlags::Shaped() and FixedMinSize() methods.

- Added wxCSConv::IsOk() (Manuel Martin).

- Added wxDateTime::GetDateOnly().

- Made wxTextFile work with unseekable files again (David Hart).

- Added wxCONFIG\_USE\_SUBDIR flag to wxFileConfig (Giuseppe Bilotta).

- Added wxSearchCtrl::[Get|Set]DescriptiveText.

- Fixed detection of number of processors under Linux 2.6

- Fixed Base64 computation in wxHTTP (p\_michalczyk)

- Fix handling of wxSOCKET\_REUSEADDR in wxDatagramSocket (troelsk)

Unix Ports:

- Fixed crash in wxGetUserName() in Unicode build

wxMSW

- Fix lack of spin control update event when control lost focus.

- Corrected drawing of bitmaps for disabled menu items.

wxGTK

- Fix hang on startup when using GTK+ options in Unicode build

wxMac

- Fix position of the centered windows (didn't take menu bar size into account)

- Added support for the wxFRAME\_FLOAT\_ON\_PARENT style.

wxX11:

- Don't crash in wxWindow dtor if the window hadn't been really Create()d.

wxUniv:

- Fixed wxComboBox always sorted.

2.8.1

-----

All:

- Fix compilation with wxUSE\_STL=1.

- wxGrid::GetBestSize() returns same size the grid would have after AutoSize().

- Added wxTreeCtrl::CollapseAll[Children]() and IsEmpty() (Francesco Montorsi).

- Several RTL-related positioning fixes (Diaa Sami).

- Fix wxConfig::DeleteGroup() for arguments with trailing slash (David Hart).

- Fix memory leak in wxGrid::ShowCellEditControl() (Christian Sturmlechner).

wxMSW:

- Fixed compilation with Borland C++ in Unicode mode but without MSLU.

- Show taskbar icon menu on right button release, not press.

wxGTK:

- Don't crash if command line is not valid UTF-8 (Unicode build only).

wxUniv:

- It is now possible to set background colour of wxStaticText.

2.8.0

-----

All:

- Added wxSearchCtrl (Vince Harron).

- wxCSConv("UTF-16/32") now behaves correctly, i.e. same as wxMBConvUTF16/32.

- wxArrayString::Alloc() now works as reserve() and doesn't clear array contents.

- Fixed long standing bug in wxFileConfig groups renaming (Antti Koivisto).

- New option wxFS\_READ | wxFS\_SEEKABLE for wxFileSystem::OpenFile() to return

a stream that is seekable.

- Fixed bug in wxCalendarCtrl::HitTest() when clicking on month change arrows.

- Added wxWindow::GetWindowBorderSize() and corrected wxTreeCtrl::GetBestSize().

for a control with borders (Tim Kosse).

wxMSW:

- Fixed version script problems when using configure with cygwin/mingw32.

- Use system default paper size for printing instead of A4.

- Fix (harmless) assert in virtual list control under Vista.

- Fix colours when converting wxBitmap with alpha to wxImage (nusi).

wxGTK:

- Allow dynamically changing most of text control styles.

- Enable use of libgnomeprintui by default in configure.

2.7.2

-----

All:

- Added wxFFile overload to wxFileName::CreateTemporaryFileName().

- Added GetTempDir() to wxFileName and wxStandardPaths.

- Added wxTar streams.

- Added wxFilterFSHandler and wxArchiveFSHandler.

- Added wxString::ToLongLong() and ToULongLong().

All (GUI):

- wxMemoryDC constructor now optionally accepts a wxBitmap parameter,

calling SelectObject itself if a valid bitmap is passed.

- Reverted wxBuffered[Paint]DC to pre 2.7.1 state, added

wxAutoBufferedPaintDC and wxAutoBufferedPaintDCFactory.

- Renamed wxProgressDialog::UpdatePulse() to just Pulse().

- Added wxCollapsiblePane (Francesco Montorsi).

- Added wxSimpleHtmlListBox (Francesco Montorsi).

- Printing framework fixes by Robert J. Lang. Bugs fixed,

wxPrinterDC::GetPaperRect() and other functions added to allow

easier printing implementation, and the documentation updated.

- Many enhancements to wxRichTextCtrl including URL support,

formatting and symbol dialogs, print/preview, and better list

formatting.

- Support for loading TGA files added (Seth Jackson).

- Added wxTB\_RIGHT style for right-aligned toolbars (Igor Korot).

- wxHtmlWindow now generates events on link clicks (Francesco Montorsi).

- wxHtmlWindow now also generates wxEVT\_COMMAND\_TEXT\_COPY event.

Unix Ports:

- Added autopackage for wxGTK and an example of using autopackage for a wx

program (Francesco Montorsi).

wxGTK:

- More RTL work.

- Support wxALWAYS\_SHOW\_SB.

- Speed up MIME types loading. Only the GNOME database should be loaded under

GNOME etc. For this, the code queries the X11 session protocol.

- wxCaret redraw problem during scrolling fixed.

2.7.1

-----

All:

- Added wxDir::FindFirst() (Francesco Montorsi).

- Added wxPlatformInfo class (Francesco Montorsi).

- Added wxLocale::IsAvailable() (Creighton).

- Added Malay translations (Mahrazi Mohd Kamal).

- Added reference counting for wxVariant.

- For consistency, all classes having Ok() method now also have IsOk() one, use

of the latter form is preferred although the former hasn't been deprecated yet.

- Added wxFileName::Is(Dir|File)(Writ|Read|Execut)able() (Francesco Montorsi).

- Added wxFileName::GetSize() and GetHumanReadableSize() (Francesco Montorsi).

- Added wxSizer::Replace (Francesco Montorsi).

- wxXmlDocument can now optionally preserve whitespace (Francesco Montorsi).

- Added wxBookCtrl::ChangeSelection() and wxTextCtrl::ChangeValue() to provide

event-free alternatives to SetSelection() and SetValue() functions; see the

"Events generated by the user vs programmatically generated events" paragraph

in the "Event handling overview" topic for more info.

All (GUI):

- Support for right-to-left text layout (started by Diaa Sami during Google Summer of

Code, with a lot of help from Tim Kosse and others).

- wxAnimationCtrl added (Francesco Montorsi).

- Added wxAboutBox() function for displaying the standard about dialog.

- Added wxID\_PAGE\_SETUP standard id.

- Added wxSize::IncBy() and DecBy() methods.

- Added wxTextCtrl::IsEmpty().

- Added file type parameter to wxTextCtrl::LoadFile, wxTextCtrl::SaveFile for

consistency with wxRichTextCtrl.

- wxRichTextCtrl: fixed range out-by-one bug to be consistent with wxTextCtrl API,

fixed some attribute bugs and added wxRichTextStyleComboCtrl.

- Added wxWindow::IsDoubleBuffered().

- Added wxHL\_ALIGN\_\* flags to wxHyperlinkCtrl (Francesco Montorsi).

- Added wxGauge::Pulse() and wxProgressDialog::UpdatePulse() (Francesco Montorsi).

wxMSW:

- Implemented wxComboBox::SetEditable().

- wxSemaphore::Post() returns wxSEMA\_OVERFLOW as documented (Christian Walther)

- Fixed a bug whereby static controls didn't use the correct text colour if the

parent's background colour had been set (most noticeable when switching to a

high-contrast theme).

- Respect wxBU\_EXACTFIT style in wxToggleButton (Alexander Borovsky).

wxMac:

- Add parameter to the --enable-universal\_binary configure option for the path

to the SDK.

wxGTK:

- Automatically use stock items for menu items with standard ids.

- Setting cursor now works for all controls.

- Implemented right-to-left support.

- Implemented left indentation and tab stops support in wxTextCtrl (Tim Kosse).

- Fixed wxHTML rendering of underlined text of multiple words (Mart Raudsepp).

wxUniv:

- Added wxTLW::UseNativeDecorations() and UseNativeDecorationsByDefault().

2.7.0

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All:

- Added positional parameters support to wxVsnprintf() (Francesco Montorsi).

- wx(F)File, wxTextFile and wxInputStreams recognize Unicode BOM now.

- Many fixes for UTF-16/32 handling in Unicode builds.

- wxLaunchDefaultBrowser() now supports wxBROWSER\_NEW\_WINDOW flag.

- Added wxStandardPaths::GetResourcesDir() and GetLocalizedResourcesDir()

- Added wxStandardPaths::GetDocumentsDir() (Ken Thomases).

- Added wxStringTokenizer::GetLastDelimiter(); improved documentation.

- Fixed wxTextFile in Unicode build.

- Added possibility to specify dependencies for a wxModule.

- Speed improvements to wxRegEx when matching is done in a loop such as

during a search and replace.

- Fix regerror and regfree name conficts when built-in regex and system regex

are both used in the same program.

- Basic authentication supported added to wxHTTP.

- wxCondition::WaitTimeout() now returns correct value when timeout occurs.

- Fixed occasional wxThread cleanup crash.

- Bug in wxLogStream::DoLogString in Unicode builds fixed.

- Added support for memo fields to wxODBC.

- Fixed Unicode builds using SunPro compiler by defining\_\_WCHAR\_TYPE\_\_.

- wxFileName now also looks for TMPDIR on Unix.

- Fixed build error in list.h with VC++ 2005.

- Fixed wxODBC buffer overflow problem in Unicode builds.

- Fixed wxSocketBase::InterruptWait on wxBase.

- Important code cleanup (Paul Cornett).

- Added support for wxLongLong in wx stream classes (Mark Junker).

- wxSOCKET\_REUSEADDR can be used with wxSocketClient.

- Overloaded Connect() and SetLocal() methods for binding to local address/port.

- Albanian translation added (Besnik Bleta).

- Assert messages now show the function in which assert failed.

- wxApp::OnAssertFailure() should now be used instead the old wxApp::OnAssert().

- Fixed several bugs in wxDateTime::ParseDate().

- The WXK\*PRIOR and WXK\*NEXT constants are now aliases for WXK\*PAGEUP

and WXK\*PAGEDOWN. If you have switch statements that use both

constants from a set then you need to remove the PRIOR/NEXT

versions in order to eliminate compiler errors.

- Fixed bug where wxDateTime::Now() would sometimes return an incorrect value

the first time it was called.

- Added wxString::rbegin() and rend().

- Added wxString::EndsWith().

- wxSocket::\_Read continues reading from socket after exhausting pushback buffer.

Previously, only the buffer would be returned, even if more data was requested.

- Added wxPowerEvent (currently MSW-only).

- Make wx-config compatible with Bourne shells.

- Fixed wxDb::Open(wxDbConnectInf) when using connection string (Hellwolf Misty).

- Fixed crash in wxDb::Open() in Unicode build (Massimiliano Marretta).

- Fixed wxTimeSpan::Format() for negative time spans.

- Optionally count repeating wxLog messages instead of logging all (Lauri Nurmi).

All (GUI):

- New AUI (Advanced User Interface) library for docking windows and much more.

- Added wxComboCtrl and wxOwnerDrawnComboBox (Jaakko Salli).

- Added wxTreebook (uses a wxTreeCtrl to control pages).

- Added wxColour/Dir/File/Font/PickerCtrls (Francesco Montorsi).

- Added wxDC::GradientFillLinear/Concentric().

- Added wxHyperlinkCtrl (Francesco Montorsi).

- Added clipboard events (wxEVT\_COMMAND\_TEXT\_COPY/CUT/PASTE).

- Allow to reorder wxGrid columns by drag-and-drop (Santiago Palacios).

- Added wxRadioBox::SetItemToolTip().

- Added support for CMYK JPEG images loading (Robert Wruck).

- Added wxListCtrl::GetSubItemRect() and subitem hit testing (Agron Selimaj).

- Added wxKeyEvent::GetModifiers().

- Added wxDialog::SetEscapeId().

- wxItemContainerImmutable::FindString unified (affects wxRadioBox, wxListBox,

wxComboBox and wxChoice).

- wxWindow::Fit() now works correctly for frames and dialogs too.

- Added access to the border size between pages and controller in book

based controls (wxBookCtrlBase::Get/SetInternalBorder).

- Added initial wxRichTextCtrl implementation.

- All book based controls (notebook, treebook etc.) share now the same

options for orientation (wxBK\_TOP, wxBK\_DEFAULT, ...) instead of duplicated

wxLB\_TOP, wxNB\_TOP, wxCHB\_TOP, wxTBK\_TOP.

- Added parent window parameter to wxHelpController constructor

and added SetParentWindow/GetParentWindow.

- wxMultiChoiceDialog uses now wxCheckListBox if possible, wxListBox if not.

- Added wxBitmapButton::SetHoverBitmap().

- Access to titles through Get/SetTitle is available now only for top level

windows (wxDialog, wxFrame).

- Fixed memory leak of pending events in wxEvtHandler.

- Added wxRadioBox::IsItemEnabled/Shown().

- Added space after list item number in wxHTML.

- Implemented <sub> and <sup> handling in wxHTML (based on patch

by Sandro Sigala).

- Added caption parameter to wxGetFontFromUser and wxGetColourFromUser.

- Added wxGetMouseState function.

- Added wxHtmlHelpWindow, wxHtmlHelpDialog and wxHtmlModalHelp classes,

allowing HTML help to be embedded in an application.

- wxCalendarCtrl positioning and hit-testing fixes for dimensions other than

best size.

- wxCalendarCtrl colour schema changed and adjusted to system settings.

- wxImage::Mirror() and GetSubBitmap() now support alpha (Mickey Rose).

- More checking of image validity before loading into wxImage.

- Added wxImage::ConvertToGreyscale.

- Added ability to use templates with static event tables

with BEGIN\_EVENT\_TABLE\_TEMPLATEn() macros.

- Added play, pause, and state change events to wxMediaCtrl.

- Added double-buffering to wxVListBox and fixed a scrolling issue.

- Added wxToolbook (uses a wxToolBar to control pages).

- Added SetSheetStyle to wxPropertySheetDialog and allowed it to

behave like a Mac OS X settings dialog.

- Added <disabled> XRC tag for wxToolBar elements and <bg> for wxToolBar itself.

- Fixed centering of top level windows on secondary displays.

- Implemented wxDisplay::GetFromWindow() for platforms other than MSW.

- UpdateUI handler can now show/hide the window too (Ronald Weiss).

- More than one filter allowed in wxDocTemplate filter.

- Added wxListBox::HitTest().

- Added wxDisplay::GetClientArea().

- Indices and counts in wxControlWithItems derived API are unsigned.

- Added support for links to wxHtmlListBox; use code has to override

wxHtmlListBox::OnLinkClicked() to take advantage of it.

- Added an easier to use wxMenu::AppendSubMenu().

- wxString <-> wxColour conversions in wxColour class (Francesco Montorsi).

- Fixed bug with ignoring blank lines in multiline wxGrid cell labels.

- Added wxTextAttr::Merge() (Marcin Simonides).

- Added wxTB\_NO\_TOOLTIPS style (Igor Korot).

- Added wxGenericDirCtrl::CollapsePath() (Christian Buhtz).

- Added wxTreeCtrl::ExpandAllChildren() (Christian Buhtz)

- Fixed 64-bit issue in wxNotebook causing segfaults on Tru64 Unix.

- Made it possible to associate context help to a region of a window.

- Added support for tabs in wxRichTextCtrl (Ashish More).

- Fixed problem with zoom setting in print preview.

- Moved wxRichTextCtrl from the advanced library to its own.

- wxNB\_HITTEST\_\* flags renamed to wxBK\_HITTEST\_\* to serve all book controls.

- Added wxTopLevelWindow::SetTransparent and CanSetTransparent, with

implementations (so far) for wxMSW and wxMac.

- Allow customizing individual grid lines appearance (Søren Lassen).

- Fixed middle click events generation in generic wxTreeCtrl (Olly Betts).

- Added wxEVT\_MOUSE\_CAPTURE\_LOST event that must be handled by all windows

that CaptureMouse() is called on.

wxMSW:

- Fixed crash with ownerdrawn menu items accelerators (Perry Miller).

- wxFileDialog respects absence of wxCHANGE\_DIR flag under NT (Brad Anderson).

- Switching page of a hidden notebook doesn't lose focus (Jamie Gadd).

- Removed wxImageList \*GetImageList(int) const.

- Fixed MDI context menu problem.

- Removed \_\_WIN95\_\_ define.

- Create msw/rcdefs.h in setup.h's directory, which can be included by

resource files. It containts platform/compiler specific defines (such as

target cpu) which can be used in #ifs in .rc files.

- Add support for Win64 manifests and VC++ 8 automatic manifests (see the

wxMSW faq for details).

- New TARGET\_CPU=amd64 (or 'ia64') option for the makefile.vc files which

puts 64-bit builds in their own directory and adds /machine:amd64 or ia64

to the link command.

- wxStatusBar::GetFieldRect now returns correct values under XP.

- wxStatusBar no longer corrupts surrounding windows on resize.

- Enable wxListCtrl in report mode to be able to use images in other

columns, if ComCtl32 >= 470.

- Fixed problem where using SetValue and wxTE\_RICH2 would cause control to

show.

- Numpad special keys are now distinguished from normal keys.

- Fixed GDI leak in wxStaticBitmap when setting images after

initial construction.

- Menu codes now stripped before measuring control labels.

- MFC sample now compiles in Unicode mode.

- Fixed SetScrollbar thumb size setting bug (set orientation before triggering

events).

- Fixed icon to cursor conversion problem for bitmaps with masks.

- Fixed wxToolBar background colour problem for some video cards.

- wxGenericDirCtrl now shows volume name.

- Added XP theme support for DrawHeaderButton, DrawTreeItemButton.

- Made the wxActiveXContainer class public and documentated.

- Added a Windows Media Player 9/10 backend for wxMediaCtrl.

- Multiline notebook tab label change now resizes the control

correctly if an extra row is removed or added.

- Fixed a crash when dismissing wxPrintDialog under VC++ 7.1.

- Fixed out by one error in wxTextCtrl::GetStyle.

- Fixed problem with getting input in universal/unicode build of wxMSW.

- Link oleacc.lib conditionally.

- Drag and drop now works inside static boxes.

- Fall back to unthemed wxNotebook if specified orientation not available.

- wxListCtrl and wxTreeCtrl now resize their standard font if the user

changes the system font.

- wxDisplay doesn't require multimon.h now and is enabled by default (Olly Betts).

- Fixed wxChoice/wxComboBox slow appending and infinite recursion

if its size is set within a paint handler (for example when embedded in a

wxHtmlWindow). [Now reverted due to problems in W2K and below.]

- wxDC::GetTextExtent() width calculation is more precise for italics fonts now.

- Warning fixes for VC++ 5.0 (Igor Korot).

wxGTK:

- Fixed handling of font encoding in non-Unicode build

- wxEVT\_MENU\_CLOSE and wxEVT\_MENU\_OPENED for popup menus are now generated.

- Implemented wxCURSOR\_BLANK support.

- wxSlider generates all scroll events now and not only wxEVT\_SCROLL\_THUMBTRACK.

- Fixed a host of bugs in wxMediaCtrl as well as added a GStreamer 0.10

implementation.

- Improved configure checks for GStreamer. You may also now specify

--enable-gstreamer8 to force configure to check for GStreamer 0.8.

- Fixed problem with choice editor in wxGrid whereby the editor

lost focus when the combobox menu was shown.

- Fixed focusing with mnemonic accelerator keys on wxStaticText which

is now able to focus on wxComboBox and possibly other controls

previously unable to be focused before.

- Enabled mnemonics and the corresponding accelerator keys for

wxStaticBox and wxRadioBox.

- Fixed problem trying to print from a preview, whereby wrong printer

class was used.

- Worked around pango crashes in strncmp on Solaris 10.

- Polygon and line drawing speeded up if there is no scaling.

- Fixed problems with CJK input method.

- Implemented ScrollLines/Pages() for all windows (Paul Cornett).

- Support underlined fonts in wxTextCtrl.

- Support all border styles; wxListBox honours the borders now.

- wxWindow and wxScrolledWindow now generate line, page and thumb-release scroll events.

- Added file preview support in file dialogs.

- Implemented SetLineSize and GetLineSize for wxSlider.

wxMac:

- Fixed problem with clipboard support for custom data flavors.

- Fixed focus handling for generic controls in carbon-cfm.

- Fixed a printing crash bug, for example using File->Print and changing

Popup from 'Copies & Pages' to e.g. 'Layout'.

- Improved support for help and application menu items.

- Added default implementations for wxTextCtrl::Replace and wxTextCtrl::Remove.

- Added support for 10.4 context menu.

- Added support for wxFRAME\_EX\_METAL and wxDIALOG\_EX\_METAL styles.

- Added wxNotebook::HitTest support.

- Corrected idle wake-up.

- Corrected wxExecute.

- Now makes use of full printer resolution.

- Corrected CGImage handling in wxBitmap.

- Now uses simple hide/show transition for top-level windows.

- Uses reasonable temporary path for wxFileName::CreateTempFileName.

- Added support for default key handling (escape, enter, command-period) even

if there is no control on the frame or dialog that has the focus.

- Fixed joystick bugs including a link error and a crash if no joysticks

were found.

- Removed an errorneous assertion from wxDir.

- Uses CoreFoundation based and thread-safe implementation for message boxes

under Mach-O.

- wxBitmapButton is created as a content icon if wxBORDER\_NONE is

specified, otherwise as a bevel button.

- Mouse event ids set correctly (fixing problems with Connect in particular).

- Fixed wxZipInputStream read error on wxSocketInputStream which signals the

end of file with an error.

- Xcode wxWidgets and minimal sample project files updated to create Universal

binaries.

- Fix for setting wxMenuBar more than once.

- wxListBox minimum size bug fixed.

- Fixed wxNotebook off-by-one bug in HitTest.

- Fixed joystick GetXMin/Max bug.

- Fixed Unix domain socket problem in wxIPC.

- Fixed non-detection of process termination on Intel Macs by

polling for process termination in a separate thread.

wxCocoa:

- wxDirDialog is now native (Hiroyuki Nakamura).

wxWinCE:

- Pressing build-in joystick on WinCE phones fires wxEVT\_JOY\_BUTTON\_DOWN event.

- Native wxCheckListBox implementation.

- All wxTopLevelWindows resizes accordingly to SIP visibility.

- ::wxGetUserName() implemented.

- wxDisplay enumeration support.

- Fixed wxFileDialog breakage on WinCE due to incorrect structure size.

- New wxSystemOption "wince.dialog.real-ok-cancel" to switch between WinCE

guidelines with Ok-only dialogs and dialogs using wxButtons.

- Checkable items in wxToolMenuBarTool supported.

- Fixed date formatting and mktime.

- Fixed getting standard folder paths on WinCE.

- Support for backspace key on Smartphone.

- Made both windows wxMediaCtrl Windows backends compilable with wxWinCE - it

is recommended that you use wxMEDIABACKEND\_WMP10 on this platform

directly, however.

- Added support for the context menu event (wxContextMenuEvent)

and added platform-specific wxWindow::EnableContextMenu.

- Fixed wxGenericFileDialog to work with WinCE.

- Fixed compilation and menubar disappearance on Windows Mobile 5.

- Fixed wxDatePickerCtrl usage.

wxUniv:

- Send wxEVT\_SCROLL\_XXX events from wxSlider (Danny Raynor).

- Implemented wxToggleButton (David Bjorkevik).

- Label in Toolbar tools implemented (Danny Raynor).

wxX11:

- Invisible text problem fixed.

- Bitmap clipping with masks and scaling improved.

- Fixed a crash bug in the generic timer.

- Implemented child process termination notifications (David Björkevik)

Unix:

- NO\_GCC\_PRAGMA is not used any more, remove checks for it if you used it.

wxMGL:

- Fixed NUM\_LOCK having no effect.

- Fixed wxFileExists (affecting wxImage::LoadFile).

2.6.2

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All:

- Fixed wxScopeGuard to work with VC++, documented it.

- Fixed proxy handling in wxURL.

- Added wxEVT\_MEDIA\_LOADED event for wxMediaCtrl.

- Added new methods to wxMediaCtrl (wxURI version of Load, ShowPlayerControls).

- Added wxZipFSHandler::Cleanup() (Stas Sergeev).

- Added wxImage::RotateHue() and RGB <-> HSV conversions (John Anderson).

- Fixed compilation with IBM xlC compiler.

- wxABI\_VERSION, see 'Backward Compatibility' topic overview in the manual.

- Added wxLongLong::ToDouble().

- Added wxDateTime::[Make]FromTimezone(), fixed several TZ-related bugs.

- Fixed bug in wxStreamBuffer::Read(wxStreamBuffer \*) (Paul Cornett).

- Fixed wxListbook and wxChoicebook internal layout.

All (GUI):

- Added wxStaticText::Wrap()

- wxChoice and wxComboBox::GetSelection() now returns completed selection,

added a new GetCurrentSelection() function having the old behaviour.

- Added wxXmlResource::Unload().

- Possibility of modeless wxWizard dialog (with presentation in sample).

- Fixed a rare crash due to malformed HTML in wxHTML (Xavier Nodet).

- Ctrl+mouse wheel changes zoom factor in print preview (Zbigniew Zagórski).

- Cross-compile now supported for wxGTK, wxX11 and wxMotif.

- Cygwin compilation of wxX11, wxGTK and wxMotif now supported.

- Now reads "help" parameter for all windows (context help text).

- wxWizard adapts to PDA-sized screens.

- Unicode fixes for IPC and a new IPC sample (Jurgen Doornik).

wxMSW:

- wxMSW now builds with (beta of) MSVC 8 (a.k.a. 2005).

- Separators are now correctly shown in the toolbars under Windows XP.

- Fixed multiline tooltips handling.

- Fixed wxSlider::GetSelEnd() (Atilim Cetin).

- Fixed accelerators of menu items added to already attached submenus.

- Position of wxEVT\_MOUSEWHEEL events is now in client, not screen, coordinates.

- Handle absence of wxListCtrl column image better (Zbigniew Zagórski).

- Fixed asynchronous playback of large sound files in wxSound.

- Added wxDynamicLibrary::GetSymbolAorW().

- Fixed default size of wxStaticText controls with border being too small.

- Fixed bugs with wxStatusBar positioning (with or withour sizers) (Jamie Gadd).

- Mouse move events are now generated for all static controls (Jamie Gadd).

- Fixed nested static box display and splitter sash on some themes (Jamie Gadd).

- Made wxJoystick::GetProductName() more useful (John Ratliff).

- Native spline drawing implementation (Wlodzimierz ABX Skiba).

wxGTK:

- ShowFullScreen() shows the window if it was still hidden (rpedroso).

- Implemented wxTopLevelWindow::RequestUserAttention() (Mart Raudsepp).

- Base library is now binary compatible when built with wxGTK and wxMotif.

- wxTextCtrl::XYToPosition, PositionToXY and GetLineLength calls are now

instantaneous in case of GTK 2.x multi-line controls (Mart Raudsepp).

- Added support for left, centre and right text alignment attributes under

GTK+2 multi-line text controls (Mart Raudsepp).

- Various wxFont improvements for GTK 2.x builds (Mart Raudsepp).

- Changed order of child deletion in window destructor and

removed focus handlers to avoid spurious events (David Surovell).

- Fixed domain socket handling.

wxMac:

- First implementation of native HIToolbar support.

- Added text control context menu (ported from wxMSW).

- More CoreGraphics implementation improvements.

- Various text control bug fixes.

- Automatic menu management improved.

- Fixed crash when wxRadioButton is deleted from a group of radio buttons,

due to dangling cycle pointers.

- Native spline drawing implementation for CoreGraphics (Robert J. Lang).

- Made wxDialog::IsModal meaning the same as other ports (true only when

showing modally).

wxOS2

- Adjustments for building with Open Watcom C++.

wxUniv:

- Window creation now honours wxVSCROLL.

- Standalone scrollbars generate events of correct type (Jochen Roemmler).

wxMotif:

- Base library is now binary compatible when built with wxGTK and wxMotif.

- wxMotif can now display Japanese text under Japanese locale.

- Fixed button size in common dialogs.

- Made wxFileDialog translatable.

- All top level windows should now have a border unless the wxNO\_BORDER

flag has been specified.

- Improved wxNotebook support for sizers. It requires the wxNotebook to

be created with a "sensible" initial width.

- Made wxDialog::IsModal meaning the same as other ports (true only when

showing modally).

wxMGL:

- Fixed crash on exit.

- Fixed drawing problems when windows are resized.

wxX11:

- Various wxFont improvements for unicode builds (Mart Raudsepp).

2.6.1

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All:

- Added wxLaunchDefaultBrowser.

- Added wxPLURAL() macro in addition to \_() (Jonas Rydberg)

All (GUI):

- Fixed potential infinite loop when adjusting wxScrolledWindow scrollbars.

- Radio in menus do not send menu event for selections of already selected item.

- Fixed wrong positioning of marks and enumerations in lists of wxHTML.

- wxImage::Rotate90 respects alpha channel.

- Added wxEVT\_SCROLL\_CHANGED as synonym for wxEVT\_SCROLL\_ENDSCROLL.

- Replaced artwork for some cursors, icons and toolbar buttons.

- Fixed sizing problem in generic wxCalendarCtrl for short day abbreviations.

- Fixed wxWindow::DoGetBestSize to keep original best size.

- PNM now supports ASCII and raw grey formats.

- wxGrid focus and edit key improvements.

wxMSW:

- Fixed erroneous selection of content in wxComboBox when within a wxStaticBox

(checking for selection caused by WM\_STYLECHANGED).

- Added deferred positioning to wxRadioBox, wxSlider and wxSpinCtrl and thereby

eliminated some refresh glitches when resizing.

- Eliminated further refresh glitches caused by wxRadioBox (to nearby controls)

by refreshing parent when the radio box moves.

- Added ability set the system option "msw.staticbox.optimized-paint" to 0 to

allow a panel to paint graphics around controls within a static box.

- Refresh exposed areas when resizing, using WM\_WINDOWPOSCHANGED.

- Worked around an apparent bug in deferred window positioning (moving a

window from (x, y) to (a, b) and back to (x, y) misses the last step) by

checking window positions against corresponding sizer state, if any.

- A control's text colour now reflects the system colour setting.

- Fixed wxFileName::GetLongPath() to behave correctly during the first call too.

- Fixed alpha blitting to take into account source position.

- Setting foreground colour for wxCheckBox now works when using XP themes too.

- wxStaticBox label can use custom foreground colour.

- Now uses newer font MS Shell Dlg 2 if possible.

- Compiles again with WIN64.

- Winelib compilation now works.

- When converting a wxIcon to a bitmap check if the icon has an alpha

channel and set the bitmap to use it.

- wxSlider now also sends wxEVT\_SCROLL\_CHANGED when using mouse wheel

- Miscellaneous wxMediaCtrl improvements.

- wxTopLevelWindow::ShowFullScreen logic error fixed.

- Fixed wxScrollBar background colour bug.

- Fixed problems with paper sizes being ignored.

- wxNotebook refresh problem fixed.

- DDE fixed for Unicode.

- Fixed ownerdrawn multiline buttons.

- wxCheckListBox item background fixed.

- Fixed error when trying to read a value from key not accessible for writing.

- Fixed keyboard cue visibility issues under Windows 2000/XP

wxWinCE:

- Fixed wxFileName::CreateTempFileName.

wxGTK:

- Added support for wxSTAY\_ON\_TOP (GTK 2.4+).

- Fixed wxTextCtrl::SetStyle for overlapping calls.

- Fixed scrollbar border colour.

- Added bitmap support in menus.

wxMac:

- Added support for launching 'APPL' bundles with wxExecute (usually they have a

.app extension and are the ones that reside in the Applications folder).

- Fixed a bug in wxGetKeyState where shift and some other keys were returning an

incorrect state.

- Fixed toolbar colour bug on Tiger.

- Fixed visual problems caused by removal of About menu item.

- Window menu now added automatically.

- Configure fixed for wxBase compilation.

- Modified function key support fixed.

- wxTopLevelWindow::Maximize improvements.

wxX11:

- Menu problems fixed.

- wxScrolledWindow scrolls any child windows.

- Fixed a font memory leak.

- Multiple wxTimers now work correctly.

2.6.0

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All:

- wxPathExists deprecated, use wxDirExists instead.

- Configure: --enable-std\_iostreams, --enable-std\_string are now the default.

All (GUI):

- Fixed ~wxStatusBar and ~wxToolBar which tried to check

non-existent wxFrameBase RTTI, causing a crash if not in a frame.

wxMSW:

- Fixed static box border when the label is empty.

- Fixed SetBackgroundColour() to change only label background, not entire box.

- wxHelpController is now aliased to wxCHMHelpController.

wxWinCE:

- Fixed device origin setting and clipping region setting.

wxGTK:

- New configure syntax for specifying the GTK+ version.

--with-gtk Use GTK 2.x, no fallback

--with-gtk=1 Use GTK 1.2, no fallback

--with-gtk=2 Use GTK 2.x, no fallback

--with-gtk=any Use any available GTK

- wxMenuItem::SetText() takes care of hotkeys, too.

- Reworked text wrapping for wxStaticText.

wxMac:

- Implemented most of the wxFileType and wxMimeTypesManager functions

2.5.5

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All:

- wxURI::GetUser() only returns the user name now, use GetUserInfo() to get

user and password as in 2.5.4; wxURI::GetPassword() added.

- Added wxDebugReport class.

- Added wxTempFileOutputStream by Stas Sergeev.

- Fixed wxDateTime::SetToWeekDayInSameWeek(Sun, Monday\_First).

- Added WXK\_SPECIAL keycodes for special hardware buttons.

- Fixed bug with wxFile::Seek(-1, wxFromCurrent).

- Added wxString/C array constructors to wxArrayString.

- Added wxMemoryInputStream(wxMemoryOutputStream&) constructor (Stas Sergeev)

All (GUI):

- Added GetIcon, GetBitmap to wxImageList. wxGenericImageList's original

GetBitmap is renamed GetBitmapPtr.

- Added XPM data constructor to wxImage.

- Added style parameter to wxBufferedDC to allow buffering just the client, or

the whole virtual area.

- Restored ability to set a custom splitter sash size with SetSashSize.

- Fixed wxScrolledWindow sizer behaviour so that the virtual size

isn't used to set the window size.

- Added wxTE\_BESTWRAP (based on patch by Mart Raudsepp).

- wxEVT\_COMMAND\_SPLITTER\_SASH\_POS\_CHANGED is now only sent once at the end of

splitter dragging and not after each CHANGING event (Jacobo Vilella Vilahur).

- Added wxImage::IsTransparent().

Unix:

- Fixed build on Linux/AMD64.

wxMSW:

- Added "orient" parameter to wxMDIParentFrame::Tile().

- wxTextCtrl with wxTE\_RICH2 style now uses RichEdit 4.1 if available.

- fix handling Alt-key events in wxComboBox (reported by Joakim Roubert).

- wxWindow::Refresh() refreshes the window children as well.

- Improved static box and radio box refresh and background colour

handling (Jamie Gadd).

wxGTK:

- Improved wxSystemSettings::GetMetric() to work better with X11 (Mart Raudsepp).

- Corrected wxListBox selection handling.

- Corrected default button size handling for different themes.

- Corrected splitter sash size and look for different themes.

- Fixed keyboard input for dead-keys.

- Added support for more wrapping styles (Mart Raudsepp).

- GTK2.4+ wxFileDialog reimplemented to support non-modal usage better,

and fix all known bugs (Mart Raudsepp).

wxMac:

- Added wxFRAME\_EX\_METAL, wxDIALOG\_EX\_METAL for metallic-look windows.

wxPalmOS:

- Native wxRadioBox implementation.

wxWinCE:

- Added wxNB\_FLAT for flat-look notebooks on Windows CE.

- Titlebar OK button on PocketPC now sends command set by SetAffirmativeId.

You can also override wxDialog::DoOK if you need more flexibility.

- Dialog size now takes into account SIP or menubar.

- Panels more naturally white on PocketPC.

- wxDIALOG\_EX\_CONTEXTHELP ignored on WinCE since it interferes

with correct titlebar style.

- Frames have Ctrl+Q accelerator set automatically, as per the

PocketPC guidelines

- Documented issues in manual under wxWinCE topic.

- Made (Un)RegisterHotKey WinCE-aware.

- Sends wxEVT\_HIBERNATE event.

- Now fakes wxEVT\_ACTIVATE\_APP to be symmetrical with wxEVT\_HIBERNATE.

- Added wxTE\_CAPITALIZE for CAPEDIT controls.

- wxDialog::GetToolBar can be used if you need to add buttons

to the dialog's toolbar.

2.5.4

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All:

- wxEvent and derived classes don't have public members any more, you must

use accessors methods now (Mart Raudsepp)

- new classes for reading and writing ZIP files (M.J.Wetherell)

- large files support for wxFFile (M.J.Wetherell)

- classes in the manual are now cross-referenced (Zbigniew Zagórski)

- Norwegian (Bokmål) translation added (Hans F. Nordhaug)

- wxDynamicLibrary::HasSymbol() added

- added wxEXEC\_NODISABLE flag to be used with wxExecute(wxEXEC\_SYNC)

- added wxTextInputStream::operator>>(wchar\_t) for compilers which support this

- added wxURI, a class for dealing with Uniform Resource Identifiers

- changed wxURL to inherit from wxURI and provide assignment and comparison

- implemented wxConvUTF7 (modified patch from Fredrik Roubert)

- added versions of MB2WC and WC2MB for wxMBConv that works for embedded null chars

- Unicode support in wxODBC is now fully implemented

- A new data type specific to wxWidgets called SQL\_C\_WXCHAR has been introduced.

SQL\_C\_WXCHAR should be used rather than SQL\_C\_CHAR to ensure transparent

behaviour between Unicode and non-unicode builds

- BLOB example added to samples/db (thanks to Casey O'Donnell)

- use wxStream::GetLength() instead of deprecated GetSize()

- wxGetOsDescription() is now more precise (Olly Betts)

- XRC supports system fonts and colours (Ray Gilbert)

- Added flags argument to wxKill/wxProcess::Kill to kill child processes.

- Added wxPrintFactory classes so that it is possible to add a new

print system backend at run-time. This was required by the new GNOME

printing stuff in the GTK port.

- Deprecated print setup dialog.

- Added support to the wxODBC classes for Firebird 1.5 database

- The samples/db sample program now includes an optional example of using a BLOB

datatype (if BLOB support is enabled and supported by the database)

- added wxDynamicLibrary::ListLoaded()

- wxGetPowerType() and wxGetBatteryState() addition

- wxSystemSettings::GetSystem\*() members deprecated and replaced with

wxSystemSettings::Get\*()

- wxWindowBase::DoGetBestSize now includes the difference (if any) between

the client size and total size of the window. Code that sets the

client size using the best size, or that added extra space to sizers

to compensate for this bug may need to be changed.

- Changed calculation of scrolling area to not clip away some bits

due to a rounding error.

- Changed GetVirtualSize() to return client size by default until

SetVirtualSize() gets called. From then on it will only return that.

- Various changes to how wxListCtrl and wxTreeCtrl react to right

mouse clicks and left mouse click for starting a drag operation.

- "Alt" key (VK\_MENU) now results in WXK\_ALT keyboard event, not WXK\_MENU

- wxFFile::ReadAll() now takes an optional wxMBConv parameter

- wxCommandProcessor::MarkAsSaved() and IsDirty() added (Angela Wrobel)

- added wxStackWalker and related classes (Win32 and some Unix versions only)

All (GUI):

- added wxMediaCtrl

- added wxDatePickerCtrl

- wxHtmlWindow now supports background images given in <body> tag

- wxSplitterWindow now supports gravity parameter (Zbigniew Zagórski)

- recursive wxSizer::GetItem returns item of given window, sizer or nth index

- wxLayoutConstraints now use best size, not current size, for AsIs() condition

- wxSizer::Add/Insert etc. now returns pointer to wxSizerItem just added and this

item remembers its wxRect area (Brian A. Vanderburg II)

- wxBookCtrl renamed to wxBookCtrlBase, wxBookCtrl is reserved for most native

book control (for now wxChoicebook for MSSmartphone, wxNotebook for others).

Necessary event macros, types and styles mapped accordingly.

- new wxBrush::IsHatch() checking for brush type replaces IS\_HATCH macro

- wxProgressDialog accepts smooth gauge again (wxPD\_SMOOTH style)

- wxProgressDialog new style: wxPD\_CAN\_SKIP which provides skipping some parts

of the progress (with new "Skip" button in dialog)

- wxGenericListCtrl::SetItemState(-1) now changes the state of all items as

in wxMSW version (Gunnar Roth)

- added wxImage::InitAlpha()

Unix:

- wxPuts() now correctly outputs trailing new line in Unicode build

wxGTK:

- Added printing support by way of using libgnomeprint. The library

now checks at runtime, if the library is installed and will use it

if it is. Otherwise, it will fall back to the old PostScript printing

code, from which the Pango drawing code was removed.

- Implemented/improved wxDC::DrawRotatedText()

- fixed wxFileDialog::SetWildcard()

- native file dialog is now used if available (Zbigniew Zagorski)

- implemented wxTextCtrl::Freeze() and Thaw(). The GtkTextBuffer

is not a valid one during frozen state. Get a pointer to it right

after wxTextCtrl creation if you really need to. (Mart Raudsepp)

- Changed calls to GTK+ 2.4.x functions so that the code checks at

runtime, which library version is installed so that these functions

are only called with GTK+ 2.4.x installed and should yield linker

errors otherwise.

- wxTextCtrl text insertion efficiency fixed. (Mart Raudsepp)

- Added wxRawBitmap support

- Corrected Input method handler code (for Chinese etc.) and its

interaction with wxWidgets' events.

- wxTE\_AUTO\_URL implemention for wxGTK2 multiline wxTextCtrls (Mart Raudsepp)

wxMac:

- Vertical sliders oriented consistent with MSW/GTK (0 at top) (Kevin Hock)

- wxDynamicLibrary::GetDllExt() now returns ".bundle", not ".dylib"

- wxDynamicLibrary::GetSymbol() now prepends underscore to the symbol name

- wxJoystick now works on OSX

wxMSW:

- fixed enhanced metafiles loading from files (Andreas Goebel)

- wxRadioButtons no longer have to be consecutive in a group

- fixed spurious selection of combobox text during resize

- pass correct tool id (and not always -1) to EVT\_TOOL\_RCLICKED() handler

- added wxRegKey::Export(file)

wxWinCE:

- Added support for MS Handheld PC 2000. This was done before 2.5.4,

but not mentioned anywhere.

- Added (preliminary) support for sockets

wxUniv:

- wxBU\_... button align flags support

- vertical notebook orientation support

- 3rd state support for checkboxes

- wxLB\_SORT and wxCB\_SORT now cause case-insensitive sorting

wxPalmOS:

- William Osborne has won and new port was born

(see: "wxPalmOS porting challenge")

- polishing of the port (unnecessary 2.4 API compatibility, removed

all wxMSW specific code which was base for the new port)

- enumeration of available volumes

- native wxPrefConfig around Preferences database

- native wxProgressDialog implementation

- native wxColourDialog implementation

- native wxSystemSettings colours

- native wxButton implementation

- native wxCheckBox implementation

- native wxSlider implementation

- native wxToggleButton implementation

- native wxRadioButton implementation

- native wxStaticText implementation

- native wxDatePickerCtrl implementation

2.5.3

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All:

- support for large (>2 Gb) files in wxFile (Tim Kosse)

- number of fixes to wxPluginManager (Rick Brice, Hans Van Leemputten)

- fixed memory leak in wxURL when using a proxy (Steven Van Ingelgem)

- fixed bug in wxDateTime::Set(jdn) when DST was in effect

- fixed fatal bug in wxString when wxUSE\_STL==1 (Kurt Granroth)

- support msgids in charsets other than C and languages other than English

(based on patch by Stefan Kowski)

- added wxMicroSleep() and wxMilliSleep() replacing deprecated wxUsleep()

- basic UDP sockets support (Lenny Maiorani)

- fixed wxDateTime::GetWeekDayName() for some dates (Daniel Kaps)

- deprecated wxDateTime::SetToTheWeek() in favour of SetToWeekOfYear()

- active mode support in wxFTP (Randall Fox)

- sped up wxHTTP and wxFTP

- added wxStringInput/OutputStreams

- added wxFileConfig::Save(wxOutputStream)

- fixed wxString's behaviour with inserted null characters

All (GUI):

- added wxWindow::MoveBefore/AfterInTabOrder() to change tab navigation order

- added wxTaskBarIcon::CreatePopupMenu which is now the recommended way

of showing a popup menu; calling wxTaskBarIcon::PopupMenu directly

is discouraged

- added ...\_CMD\_...(id) variants for wxGrid event table entry macros

- added wxWindow::Navigate for programmatic navigation to the next control

- wxTextCtrl::OnChar now inserts a tab character if wxTE\_PROCESS\_TAB is set

- added wxKeyEvent::GetUnicodeKey()

- added wxKeyEvent::CmdDown() and wxMouseEvent::CmdDown()

- implemented wxListCtrl::FindItem() for non-MSW (Robin Stoll)

- added status bar fields styles support (Tim Kosse)

- added convenience functions wxSizer::AddSpacer() and

wxSizer::AddStretchSpacer() (as well as Prepend and Insert variants)

- added samples/splash

- added support for stock buttons

- added wxTopLevelWindow::RequestUserAttention()

- support for comma in contrib gizmo wxLEDNumberCtrl (Grant Likely)

- recursive wxSizer::Show for subsizer and return value if element was found

- added wxChoicebook control

- smoother time estimation updates in wxProgressDialog (Christian Sturmlechner)

- the XRC contrib library was moved to the core

- wx(Choice/List/Note)book controls send CHANG(ED/ING) events in SetSelection

- it is now possible to create a wxFont with given size in pixels (d2walter)

- added wxTopLevelWindow::IsActive()

- wxSystemSettings::GetMetric now returns -1 for metrics that are not

supported, instead of zero.

- IMPLEMENT\_DYNAMIC\_CLASS2 macro compilation fixed (Serge Bakkal)

Unix:

- wxTaskBarIcon now supports freedesktop.org System Tray protocol

- security fixes to wxSingleInstanceChecker

- wx-config script was modified to allow choosing from multiple installed

builds of wxWidgets and to return flags/libs for selected libraries only

- wx-config has new --version-full option

wxCocoa:

- added Unicode compatibility layer for OSX 10.2

- fixed so that wxCocoa runs in OSX 10.2

- Tooltips now supported

- wxSound now supported

- wxDisplay now supported

- Some stock cursors now supported

wxMac:

- fixed MLTE text control GetLineText and GetLineLength on OSX

- added OSX wxTaskBarIcon implementation for the OSX Dock

- added Unicode compatibility layer for OSX 10.2

- wxGetKeyState now works with nearly all wx key codes

wxGTK:

- wxGTK uses GTK+ 2.x by default now, you have to pass --disable-gtk2 to

configure if you want to use GTK+ 1.2

- fixed many rendering artifacts and wrong colours with lots of GTK+ themes

- implemented wxColourDialog as native dialog

- implemented wxTextCtrl::HitTest() (GTK+ >= 2)

- implemented wxTextCtrl::ScrollLines() and ScrollPages for GTK+ 2.x

- wxTreeCtrl::GetCount() counts root as well now (compatible with MSW)

- added support for wxCHK\_3STATE style (GTK2 only)

- implemented text underlining under GTK2

- implemented wxFRAME\_NO\_TASKBAR style (GTK >= 2.2)

- implemented support for wxSYS\_DCLICK\_?, wxSYS\_DRAG\_? and wxSYS\_CURSOR\_?

in wxSystemSettings::GetMetric (Mart Raudsepp)

- implemented wxTopLevel::IsMaximized() for GTK+2 and WMs that implement

freedesktop.org's wm-spec (Mart Raudsepp)

- wxEVT\_CONTEXT\_MENU is now generated for right mouse press, not release

- implemented alpha channel support in wxBitmap

- added native GTK+2 wxArtProvider implementation with ability to load

icons from icon theme in addition to recognized stock art

- fixed crash on 64 bit platforms (Paul Cornett)

wxMotif:

- added support for wxCHK\_3STATE style (3 state checkbox)

wxMSW:

- fixed UNC paths handling in wxFileSystem (Daniel Nash)

- set wxKeyEvent::m\_uniChar in Unicode build

- support for alpha channel in toolbar bitmaps (Jurgen Doornik)

- wxFileDialog can now be moved and centered (Randall Fox)

- restored (and improved) possibility to use wx with MFC broken in 2.5.2

- fixed wxTextCtrl::SetMaxLength for rich edit controls

- fixed flat style for toolbars under XP, Windows Classic style

- fixed truncation of transferred data in wxConnection under unicode build

- wxChoice and wxComboBox dropdown background can be set now too (Adrian Lupei)

- fixed wxMaximizeEvent generation in wxFrame

- don't send duplicate EVT\_COMBOBOX events whenever selection changes any more

- implemented support for selecting printer bin (Steven Van Ingelgem)

- fixed wxListCtrl::SetSingleStyle() which was broken since a few releases

- fixed print setup problem (always uses default printer) in Unicode build

wxUniv/X11:

- fixed fatal crash when opening a menu

wxWinCE:

- added native WinCE driven smartphone wxTextCtrl implementation using spinners

- added native WinCE driven smartphone wxChoice implementation using spinners

- added automated but customizable handling of native WinCE driven smartphone menus

- fixed wxRadioBox and wxStaticBox

wxHTML:

- added support for nested index entries and index entries pointing to more

than one page to wxHtmlHelpController

2.5.2

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All:

- Hindi translation added (Dhananjaya Sharma)

- Brazilian Portuguese translation added (E. A. Tacao)

- wxDynamicCast() now uses static\_cast<wxObject \*> internally and so using it

with anything not deriving from wxObject will fail at compile time (instead

of run-time) now

- when wxUSE\_STL == 1 and STL provides quasi-standard hash\_map/hash\_set,

wxHashMap/wxHashSet are just typedefs for them. This makes impossible

to forward declare these classes.

All (GUI):

- wxHtmlWindow now delays image scaling until rendering,

resulting in much better display of scaled images

- Added UpdateSize to wxSplitterWindow to allow layout while hidden

- implemented Freeze/Thaw() for wxGenericTreeCtrl (Kevin Hock)

- support for KOI8-U encoding added (Yuriy Tkachenko)

- The old wxADJUST\_MINSIZE behaviour is now the default behaviour for

sizer items that are windows. This means that GetAdjustedBestSize

will now be called by default to determine the minimum size that a

window in a sizer should have. If you want to still use the initial

size (and not the BestSize) then use the wxFIXED\_MINSIZE flag. When

windows are added to a sizer their initial size is made the window's

min size using SetSizeHints, and calls to wxSizer::SetItemMinSize

are also forwarded to SetSizeHints for window items.

- added wxRegEx::GetMatchCount()

- it is now possible to display images in wxHtmlListBox

wxMSW:

- wxWindow::Freeze()/Thaw() can now be nested

- Added wxSP\_NO\_XP\_THEME style to wxSplitterWindow to switch off

XP theming (some applications look bad without 3D borders)

- wxMenuBar::GetLabelTop() doesn't include '&'s in the label any more

- wxRegConf couldn't read global settings without admin privileges and didn't

even try to do it by default -- now it does

- wxTaskBarIcon must be explicitly destroyed now, otherwise the application

won't exit even though there are no top level windows

- wxFileName::GetModificationTime() works with opened files too now

- wxDC::GetClippingBox() now works even for clipping regions created by Windows

- fixed wxFileDataObject in Unicode build (Alex D)

- subindented paragraphs support (Tim Kosse)

wxGTK:

- added support for wxTE\_RIGHT and wxTE\_CENTRE styles under GTK2 (Mart Raudsepp)

wxMotif:

- removed wxMenuItem::DeleteSubMenu()

- wxButtons use Motif default size, which is smaller than it used to be

and closer to wxMSW/wxGTK look. This can be disabled by setting

motif.largebuttons system option to 1 (see wxSystemOptions).

wxUniv/X11:

- implemented DrawRoundedRectangle() (clawghoul)

wxHTML:

- improved tables and lists layout algorithms (Tim Kosse)

- <div> handling fix (Xavier Nodet)

Unix:

- fixed priorities of mailcap entries (David Hart)

- added "wx-config --libs=std,<extra>" syntax (i.e. support for "std")

wxODBC:

- Full Unicode support is now available

- BLOB support is working

2.5.1

-----

All:

- event table macros now do some minimal type safety checks (Michael Sögtrop)

- added wxGzipInput/OutputStream, bug fixes in wxZlibStreams (M.J.Wetherell)

- wxDateTime::ParseDateTime() implemented (Linus McCabe)

- wxHTTP::GetResponse() added (David Nock)

- added conversions to/from UTF 16/32 LE/BE (Andreas Pflug)

- added wxTextInputStream::ReadChar() (M.J.Wetherell)

- added translation to Afrikaans (Petri Jooste)

- Spanish translations updated (Javier San Jose)

- added gettext plural forms support to wxLocale (Michael N. Filippov)

- wxFileName::Normalize(wxPATH\_NORM\_ALL) doesn't lower filename case any more

- wxFileName::Normalize(wxPATH\_NORM\_ENV\_VARS) now works

- check if file exists in wxFileConfig::DeleteFile() (Christian Sturmlechner)

- when wxUSE\_STL == 1 wxHashTable will not be implemented using wxHashMap

(as in 2.5.0).

- added some extra convenience functions to wxRect such as

GetBottomRight (Hajo Kirchhoff)

- changed built-in regex library to a Unicode-compatible version based

on TCL sources (Ryan Norton, M. J. Wetherell)

- added extra convenience functions to wxPoint for adding a

wxSize (Wlodzimierz Skiba)

- intermediate wxIPaddress class added to prepare for

wxIPV6address (Ray Gilbert)

- added overloaded constructors and Create() methods taking wxArrayString

for wxChoice, wxComboBox, wxListBox, wxRadioBox, wxCheckListBox,

wxSingleChoiceDialog, wxMultipleChoiceDialog

- renamed wxWave class to wxSound

All (GUI):

- added 3-state checkboxes for MSW/Mac (Dimitri Schoolwerth)

- added some support for C++ exceptions in the library (do read the manual!)

- added wxListCtrl::GetViewRect()

- added wxTextCtrl::MarkDirty()

- wxToolBar::ToggleTool() now works for radio buttons (Dag Ågren)

- wxListCtrl now sends an END\_LABEL event if editing was cancelled, too

- bug in wxRect ctor from two [out of order] wxPoints fixed (Steve Cornett)

- status text is now restored after wxMenu help is shown in it

- bug in wxWindow::RemoveEventHandler() fixed (Yingjun Zhang)

- make it possible to use wxRTTI macros with namespaces (Benjamin I. Williams)

- wxColourDatabase API now uses objects instead of pointers

- added resolution option to JPEG image handler (Jeff Burton)

- added wxCalendarEvent::SetDate, wxCalendarEvent::SetWeekDay

- wxGenericDirCtrl now accepts multiple wildcards

- added focus event forwarding to wxGrid (Peter Laufenberg)

- fixed scrollbar problem in wxGrid (not showing scrollbars

when sizing smaller) (Shane Harper)

- dbbrowse demo fixed for Unicode (Wlodzimierz Skiba)

- added wxStatusBar support to XRC (Brian Ravnsgaard Riis)

- wxMenu::Append and etc. return a pointer to the wxMenuItem that was

added or inserted, or NULL on failure.

- using a -1 (wxID\_ANY) for menu or toolbar item IDs will now generate new id

- added option to generate C++ headers to wxrc utility (Eduardo Marques)

- added wxDC::DrawPolyPolygon() for MSW/PS (Carl-Friedrich Braun)

- wxBufferedDC now allows to preserve the background and is documented

- added wxDC::GetPartialTextExtents

wxMSW:

- wxWidgets now builds under Win64

- fixed DDE memory leaks

- fixed wxTE\_\*WRAP styles handling

- wxTextCtrl::GetValue() works with text in non default encoding

- changed wxCrashReport to generate minidumps instead of text files

- wxRadioButtons are now checked when they get focus (standard behaviour)

- several fixes to owner drawn menu items (Christian Sturmlechner)

- wxGauge now supports full 32 bit range (Miroslav Rajcic)

- make it possible to give focus to the notebook tabs (Hajo Kirchhoff)

- MDI child frames are not always resizable any more (Andrei Fortuna)

- fixed enumerating of entries/groups under '/' in wxRegConfig

- added wxSYS\_ICONTITLE\_FONT (Andreas Pflug)

- added wxPATH\_NORM\_SHORTCUT to wxFileName

- wxComboBox::GetValue within a wxEVT\_COMMAND\_TEXT\_UPDATED event

should now pass the correct value even if the handler for

wxEVT\_COMMAND\_COMBOBOX\_SELECTED changed the selection

- wxFileDialog now returns correct filter index for multiple-file dialogs

- added wxTextCtrl::HitTest()

- experimental wxURL implementation using WinInet functions (Hajo Kirchhoff)

- fixed several bugs in wxNotebook with wxNB\_MULTILINE style

- accelerators are now initially hidden if appropriate (Peter Nielsen)

- background colour of a wxComboBox may now be set

- fixed wxListCtrl::GetItemText/BackgroundColour()

- Esc can now be used to close menus in the dialogs (Hartmut Honisch)

- Added msw.remap system option so colourful toolbar buttons

aren't mangled if you set it to 0. The default is 1

- Toolbar buttons are now centred if the bitmap size is smaller

than the specified default size

- Fixed a bug in wxSpinCtrl::DoGetBestSize that would make wxSpinCtrl too tall

wxGTK:

- fixes to wxTextCtrl scrolling under GTK2 (Nerijus Baliunas)

- fix for crash when using user-dashed lines (Chris Borgolte)

- fixed wxChoice::Delete() in presence of client data

- allow calling wxWindow::SetFont if window not yet created

- use same average character width as other ports when calculating dialog units

- fixed mouse wheel handling under GTK2 (Hugh Fisher)

- wxNotebook::HitTest() implemented (Daniel Lundqvist)

- memory leaks fixes in wxFileDialog (John Labenski)

- don't drop click events from triple clicks (Frode Solheim)

wxMac:

- use same average character width as other ports when calculating dialog units

- implemented handling of mouse wheel

- fix for long file names (longer than 32 characters) in file dialogs

- use Unix sockets for Mach-o builds

wxMotif:

- look for Motif 2.1 headers before Motif 1.2 ones in configure

wxHTML:

- wxHtmlHelpController now supports compressed MS HTML Help files (\*.chm)

on Unix (Markus Sinner)

Unix:

- added XFree86 resolution changing using xf86vidmode extensions (Ryan Norton)

- implemented asynchronous playback in wxSound and added SDL backend in

addition to existing OSS one

- it is now possible to send PostScript to any output stream (Zoltan Kovacs)

2.5.0

-----

All:

- It is now possible to build several smaller libraries instead of single

huge wxWidgets library; wxBase is now dependency of GUI ports rather then

separately compiled library

- added wxDateSpan::operator==() and !=() (Lukasz Michalski)

- added wxFileName::GetForbiddenChars() (Dimitri Schoolwerth)

- use true/false throughout the library instead of TRUE/FALSE

- wxStopWatch::Start() resumes the stop watch if paused, as per the docs

- added wxDirTraverser::OnOpenError() to customize the error handling

- added wxArray::SetCount()

- wxFile, wxFFile, wxTextFile and wxTempFile now all use UTF-8 encoding

by default in Unicode mode

- bug in wxDateTime with timezones on systems with tm\_gmtoff in struct tm fixed

- added wx/math.h (John Labenski)

- added Catalan translations (Pau Bosch i Crespo)

- added Ukrainian translations (Eugene Manko)

- fixed bug with deleting entries at root level in wxFileConfig

- chkconf.h now includes platform-specific versions (for MSW

and Mac) which contain some tests that were in setup.h

- added event sink argument to wxEvtHandler::Connect()

- added support for POST method and alt ports to wxHTTP (Roger Chickering)

- added wxSocket::IPAddress() (Chris Mellon)

- wxDataStreams can read/write many elements at once (Mickael Gilabert)

- added wxRecursionGuard class

- added wxThreadHelper class (Daniel Howard)

- Added STL support (--enable-stl for configure, wxUSE\_STL in setup.h).

When enabled, wxString will derive from std::string, wxArray from,

std::vector, wxList from std::list. In addition wxHashTable will be

implemented in terms of wxHashMap.

- Added wxList::compatibility\_iterator. Can be used like wxNode\* (except

it can't be delete()d). It permits writing code which will work

both with wxUSE\_STL==1 and wxUSE\_STL==0.

wxBase:

- added Watcom makefiles

- fixed bug with searching in sorted arrays (Jürgen Palm)

All GUI ports:

- added wxVScrolledWindow, wxVListBox and wxHtmlLbox classes

- added wxListbook control

- added alpha channel support to wxImage

- added wxRenderer class allowing to customize the drawing of generic controls

- added wxCLOSE\_BOX style for dialogs and frames

- added wxSplitterWindow and wxWizard handlers to XRC

- wxWizard is now sizer-friendly and may be made resizable (Robert Vazan)

- added proportion to wxFlexGridSizer::AddGrowableRow/Col (Maxim Babitski)

- added wxFlexGridSizer::SetFlexibleDirection() (Szczepan Holyszewski)

- implemented GetEditControl for wxGenericTreeCtrl (Peter Stieber)

- improved contrib/utils/convertrc parsing (David J. Cooke)

- fixed handling of URLs and filenames in wxFileSystem

- implemented alignment for wxGrid bool editor and renderer

- support wxListCtrl columns alignment for all platforms and not just MSW

- added wxToolBar Add/InsertTool(tool) (Janusz Piwowarski)

- added wxTB\_HORZ\_TEXT style for MSW and GTK (Axel Schlueter)

- fixed user dash handling for MSW and GTK (Ken Edwards)

- WXR resources can now be used in Unicode builds

- it is now possible to use several wxFileHistory objects in the same menu

by giving them different base IDs (Dimitri Schoolwerth)

- Added wxTLW::SetShape with implementations for wxMSW and wxGTK (so far)

- FL: removed const from EnableTool parameters

- FL: signal child window when toolbar is closed

- In various places, changed tests for pathsep on last char of string to call

wxEndsWithPathSeparator(s)

- Added to defs.h a couple of macros (wxPtrToULong & wxULongToPtr)

- Minor improvements to document/view framework, including

delayed deletion of a document (until after the user has chosen

a new document), and more intelligent addition of filenames to

the file history, including not adding filenames if not using the

default extension for the template

- sped up wxImage::Scale using fixed point arithmetic (Wade Brainerd)

- Added BLOB support to wxDB (John Skiff)

- wxWizard now validates when pressing Back or Next

- Implemented wxNotebook::DoGetBestSize so Fit now works

- Added FindItemByPosition to wxMenu

- wxTimer now derives from wxEvtHandler and is its own owner object by default

- Extended wxTextAttr and added wxTextCtrl::GetStyle stub

to allow better rich text support.

- implemented wxFlexGridSizer::Show() (Wade Brainerd)

- Added m\_ prefix to wxColourData and wxFontData members

- Added wxHtmlPrintout::AddFilter so HTML printing can be subject to

custom filters as well as HTML viewing.

- Moved wxApp::SendIdleEvents and wxApp::ProcessIdle into common code.

- wxWindow::OnInternalIdle is now used in all ports, and ensures that

user OnIdle events do not interfere with crucial internal processing.

- wxWindow::UpdateWindowUI is now a documented function that

sends wxUpdateUIEvents, and can be overridden. It has a helper function

DoUpdateWindowUI for taking appropriate wxUpdateUIEvent action.

- Added functions to wxUpdateUIEvent: Set/GetMode, Set/GetUpdateInterval,

CanUpdate, to assist with optimising update event frequency.

- Added functions to wxIdleEvent: Set/GetMode, CanSend, to

determine whether a window should receive idle events.

- Added wxWS\_EX\_PROCESS\_IDLE, wxWS\_EX\_PROCESS\_UI\_UPDATES window

styles for use with conservative idle and update event modes.

- send menu update events only when a menu is about to be used (MSW/GTK)

- improved event processing performance (Hans Van Leemputten)

- added wxMirrorDC class

- printing improvements: GetPageInfo() gets called after the DC has

been set and after OnPreparePrinting() has been called so it can

report the number of pages accurately; doesn't try to set

number of pages in print dialog, in common with other Windows apps;

wxHTML easy printing's preview shows number of pages

correctly; preview scrollbars are set correctly; keyboard navigation

improved

Unix:

- fixed compilation on systems with zlib installed but < 1.1.3 version

- fixed compilation on Solaris 7 with large files support enabled

- added wxTaskBarIcon implementation for X11

- added support for GNU/Hurd in configure

- wxLocale::Init now tries to set .utf8 locale in Unicode mode (Andreas Pflug)

Generic controls:

- implemented wxListCtrl::Refresh() (Norbert Berzen)

- support adding/removing columns dynamically (Donald C. Taylor)

- wxToolBarSimple, property list classes, wxTreeLayout moved

to contrib/src/deprecated

wxGTK:

- added support for label mnemonics to GTK+2 build (Michael Moss)

- added native wxMessageDialog implementation for GTK+2 build

- fixed wxMenu::Remove (John Skiff and Benjamin Williams)

- made wxTextCtrl::EmulateKeyPress() work for Delete and Backspace

- fixed wxTopLevelWindow::ShowFullScreen to work with kwin, IceWM and

window managers that support \_NET\_WM\_STATE\_FULLSCREEN

- added wxEVT\_MENU\_OPEN event generation

- fixed bug in generic file selector causing incomplete file extensions to

be appended to filenames with no extension

- added wxTextCtrl::SetSelection implementation for GTK+ 2

- fixed wxTextCtrl::IsEditable() for GTK+ 2

- fixed wxStaticText alignment for GTK+ 2 (Kevin Hock)

- don't consume 100% CPU when showing a popup menu

wxMac:

- generate wxEVT\_SCROLL\_THUMBRELEASE and wxEVT\_SCROLLWIN\_THUMBRELEASE events

- generate wxEVT\_MENU\_OPEN and wxEVT\_MENU\_CLOSE events

wxMSW:

- possibility to use DIBs for wxBitmap implementation (Derry Bryson)

- added wxCrashReport

- wxStaticBitmap doesn't stretch its bitmap any longer (like other ports)

- support for accelerator keys in the owner drawn menus (Derry Bryson)

- wxCaret::SetSize() doesn't hide the caret any longer as it used to

- wxCheckListBox::Check() doesn't send CHECKLISTBOX\_TOGGLE event any more

- fixed bugs in wxThread::Wait() and IsAlive()

- fixed bug with wxTR\_EDIT\_LABELS not working with wxTR\_MULTIPLE

- fixes for compilation with OpenWatcom and DigitalMars compilers

- fixed wxStaticText best size calculation (was wrong by '&' width)

- fixed calling wxFrame::Maximize(FALSE) before the window is shown

- added wxNotebook::HitTest() (Otto Wyss)

- libraries built with makefile.g95 have a \_min or \_cyg suffix (MinGW/Cygwin)

- when using DLL, wxLocalFSHandler was not being exported

- fixed problem with wxEvtHandler object not removed from wxPendingEvents

- Windows XP manifest is now included in wx.rc; it is no longer necessary

to ship .exe.manifest file with applications to support XP themes

- wxLocale::Init no longer reports error if trying to set Unicode-only locale

or if user's default locale is Unicode-only

- improved border handling under Windows XP

- partial fix for wxNotebook pages looking bad under XP: wxUSE\_UXTHEME

enables XP theme engine code, and wxUSE\_UXTHEME\_AUTO tells

wxWidgets to use the theme tab colour for control backgrounds.

- disable wxNB\_RIGHT, wxNB\_LEFT, wxNB\_BOTTOM notebook styles under Windows XP

- fixed release mode build with VC 7.x (Martin Ecker)

- added support for wxALWAYS\_SHOW\_SB style

- you don't need to add opengl32.lib when using VC++ now (David Falkinder)

wxMotif:

- made wxFileDialog behaviour with complex wildcards more sensible (it still

does not support all the features other ports do); refer to wxFileDialog

documentation for a detailed explanation

- implemented wxWakeUpIdle

- for Motif 2.0, used the native combobox widget instead of the GPL'd

xmcombo; xmcombo is still used for Motif 1.x and Lesstif when compiled

with Motif 1.x compatibility

- implemented wxToggleButton

- wxRadioBox and wxStaticBox now use the default shadow (border) style

instead of a sunken border

- implemented wxBitmapDataObject

- finished wxClipboard implementation

wxUniv:

- controls in toolbars now supported

wxHTML:

- added text selection to wxHtmlWindow

- added SetFonts to HTML printing classes (Adrian Philip Look)

- it is now possible to force page break when printing by inserting

<div style="page-break-before:always"> into the markup (Greg Chicares)

- wxHtmlWindow now uses double buffering to prevent flicker

OLD CHANGES

===========

INCOMPATIBLE CHANGES SINCE 2.2.x

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Please take a few minutes to read the following list, especially

paying attention to the most important changes which are marked

with '!' in the first column.

Also please note that you should ensure that WXWIN\_COMPATIBILITY\_2\_2

is defined to 1 if you wish to retain maximal compatibility with 2.2

series -- however you are also strongly encouraged to try to compile

your code without this define as it won't be default any longer in

2.6 release.

NB: if you want to build your program with different major versions

of wxWidgets you will probably find the wxCHECK\_VERSION() macro

(see the documentation) useful.

wxBase:

! wxArray<T>::Remove(size\_t) has been removed to fix compilation problems

under 64 bit architectures, please replace it with RemoveAt() in your

code.

! wxArray<T> macros have been changed to fix runtime problems under 64 bit

architectures and as a side effect of this WX\_DEFINE\_ARRAY() can only be

used now for the pointer types, WX\_DEFINE\_ARRAY\_INT should be used for the

arrays containing non-pointers.

- wxObject::CopyObject() and Clone() methods were removed because they

simply don't make sense for all objects

- wxEvent now has a pure virtual Clone() method which must be implemented

by all derived classes, if you have user-defined event classes please

add "wxEvent \*Clone() const { return new MyEvent(\*this); }" line to them

- small change to wxStopWatch::Pause() semantics, please see the documentation

- unlikely but possible incompatibility: the definition of TRUE has changed

from "1" to "(bool)1" (and the same thing for FALSE), so the code which

could be erroneously compiled previously such as doing "return FALSE" from

a function returning a pointer would stop compiling now (but this change

is not supposed to have any effects on valid code)

- another minor change: wxApp::OnAssert() has a new "cond" argument, you

must modify YourApp::OnAssert() signature if you were using it to override

the default assert handling.

All (GUI):

! the event type constants are not constants any more but are dynamically

allocated during run-time which means that they can't be used as case labels

in the switch()es, you must rewrite them to use if()s instead

You may also define WXWIN\_COMPATIBILITY\_EVENT\_TYPES to get the old behaviour

but this is strongly discouraged, please consider changing your code

instead!

! wxDialog does not derive from wxPanel any longer - if you were using it in

your code, please update it. The quick fix for the most cases is to replace

the occurrences of wxPanel with wxWindow.

! if you handle (and don't skip) EVT\_KEY\_DOWN, the EVT\_CHAR event is not

generated at all, so you must call event.Skip() in your OnKeyDown() if

you want to get OnChar() as well

- in general, the key events sent for the various non ASCII key combinations

have been changed to make them consistent over all supported platforms,

please see the wxKeyEvent documentation for details

- wxYES\_NO is now wxYES | wxNO and the manifest values of both wxYES and wxNO

have changed (to fix some unfortunate clashes), please check your code to

ensure that no tests for wxYES or wxNO are broken: for example, the following

will \*NOT\* work any longer:

if ( flags & wxYES\_NO )

... do something ...

if ( flags & wxYES )

... do something else ...

- static wxWizard::Create() doesn't exist any more, the wizards are created

in the same way as all the other wxWindow objects, i.e. by directly using

the ctor

- wxGLCanvas now derives directly from wxWindow, not wxScrolledWindow

- wxGridCellAttrProvider class API changed, you will need to update your code

if you derived any classes from it

- wxImage::ComputeHistogram()'s signature changed to

unsigned long ComputeHistogram(wxImageHistogram&) const

- wxEvtHandler cannot be copied/assigned any longer - this never worked but

now it results in compile-time error instead of run-time crashes

- WXK\_NUMLOCK and WXK\_SCROLL keys no longer result in EVT\_CHAR() events,

they only generate EVT\_KEY\_DOWN/UP() ones

- the dialogs use wxApp::GetTopWindow() as the parent implicitly if the

parent specified is NULL, use wxDIALOG\_NO\_PARENT style to prevent this

from happening

- several obsolete synonyms are only retained in WXWIN\_COMPATIBILITY\_2\_2 mode:

for example, use wxScrolledWindow::GetViewStart() now instead of ViewStart()

and GetCount() instead of Number() in many classes

- wxCmdLineParser does not use wxLog to output messages anymore.

to obtain the previous behaviour, add

wxMessageOutput::Set(new wxMessageOutputLog); to your program

(you will need to #include <wx/msgout.h>)

wxMSW:

! build system changed: setup.h is not a static file in include/wx any more

but is created as part of the build process under lib/<toolkit>/wx

where <toolkit> is of the form (msw|univ)[dll][u][d]. You'll need to update

the include path in your make/project files appropriately. Furthermore,

xpm.lib is no longer used by wxMSW, it was superseded by the wxXPMDecoder

class. You'll need to remove all references to xpm.lib from your

make/project files. Finally, the library names have changed as well and now

use the following consistent naming convention: wxmsw[ver][u][d].(lib|dll)

where 'u' appears for Unicode version, 'd' -- for the debug one and version

is only present for the DLLs builds.

- child frames appear in the taskbar by default now, use wxFRAME\_NO\_TASKBAR

style to avoid it

- all overloads of wxDC::SetClippingRegion() combine the given region with the

previously selected one instead of replacing it

- wxGetHomeDir() uses HOME environment variable and if it is set will not

return the programs directory any longer but its value (this function has

never been meant to return the programs directory anyhow)

- wxHTML apps don't need to include wx/html/msw/wxhtml.rc in resources file

anymore. The file was removed from wxMSW

Unix ports:

! You should use `wx-config --cxxflags` in your makefiles instead of

`wx-config --cflags` for compiling C++ files. CXXFLAGS contains CFLAGS

and the compiler flags for C++ files only, CFLAGS should still be used

to compile pure C files.

wxThread and related classes:

- The thread-related classes have been heavily changed since 2.2.x versions

as the old code had many serious problems. This could have resulted in

semantical changes other than those mentioned here, please review use of

wxThread, wxMutex and wxCondition classes in your code.

! wxCondition now \*must\* be used with a mutex, please read the (updated) class

documentation for details and revise your code accordingly: this change was

unfortunately needed as it was impossible to ensure the correct behaviour

(i.e. absence of race conditions) using the old API.

- wxMutex is not recursive any more in POSIX implementation (it hasn't been

recursive in 2.2.x but was in 2.3.1 and 2.3.2), please refer to the class

documentation for the discussion of the recursive mutexes.

- wxMutex::IsLocked() doesn't exist any more and should have never existed:

this is was unique example of a thread-unsafe-by-design method.

OTHER CHANGES

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2.4.0

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wxMSW:

- fixed loss of client data in wxChoice::SetString()

2.3.4

-----

All:

- added (partial) Indonesian translations (Bambang Purnomosidi D. P.)

- added wxSizer::Show()/Hide() (Carl Godkin)

- fixed bugs in wxDateTime::SetToWeekDay()/GetWeek()

Unix (Base/GUI):

- minor OpenBSD compilation/linking fixes, now builds OOB under OpenBSD 3.1

- don't include -I/usr/include nor -I/usr/local/include in wx-config output

- shared library symbols are now versioned on platforms that support it (Linux)

wxGTK:

- Further work for GTK 2.0 and Unicode support.

- Addition of native frame site grip.

wxX11:

- Unicode support through Pango library.

wxMSW:

- fixed crashes in wxListCtrl under XP

- added context menu for rich edit wxTextCtrl

wxHTML:

- fixed wxHTML to work in Unicode build

2.3.3

-----

wxBase:

- building wxBase with Borland C++ is now supported (Michael Fieldings)

- wxSemaphore class added, many fixed to wxCondition and wxThread (K.S. Sreeram)

- fixes to the command line parsing error and usage messages

- modified wxFileName::CreateTempFileName() to open the file atomically

(if possible) and, especially, not to leak the file descriptors under Unix

- memory leak in wxHTTP fixed (Dimitri Schoolwerth)

- fixes to AM\_PATH\_WXCONFIG autoconf macro

- added wxHashMap class that replaces type-unsafe wxHashTable and is modelled

after (non standard) STL hash\_map

- wxLocale now works in Unicode mode

- wxLocale can now load message catalogs in arbitrary encoding

- added wxShutdown() function (Marco Cavallini)

- added wxEXPLICIT macro

- IPC classes improved and memory leaks fixed (Michael Fielding).

Global buffer removed, duplication in docs removed

- debug new/free implementations made thread-safe

Unix (Base/GUI):

- wxWidgets may be built using BSD and Solaris (and possibly other) make

programs and not only GNU make

- wxTCP-based IPC classes now support communicating over Unix domain sockets

- wxWidgets may be built as a dynamic shared library under Darwin / Mac OS X

lazy linking issues have been solved by linking a single module (.o) into

the shared library (two step link using distrib/mac/shared-ld-sh)

- fixed thread priority setting under Linux

All (GUI):

- it is now possible to set the icons of different sizes for frames (e.g. a

small and big ones) using the new wxIconBundle class

- implemented radio menu items and radio toolbar buttons

- added possibility to show text in the toolbar buttons

- added wxArtProvider class that can be used to customize the look of standard

wxWidgets dialogs

- significantly improved native font support

- wxImage::ComputeHistogram() now uses wxImageHistogram instead of type-unsafe

wxHashTable

- added IFF image handler

- fixed using custom renderers in wxGrid which was broken in 2.3.2

- support for multiple images in one file added to wxImage

(TIFF, GIF and ICO formats)

- support for CUR and ANI files in wxImage added (Chris Elliott)

- wxTextCtrl::GetRange() added

- added wxGetFontFromUser() convenience function

- added EVT\_MENU\_OPEN and EVT\_MENU\_CLOSE events

- added Hungarian translations (Janos Vegh)

- added wxImage::SaveFile(filename) method (Chris Elliott)

- added wxImage::FloodFill and implemented wxWindowDC::DoFloodFill method

for GTK+, Mac, MGL, X11, Motif ports (Chris Elliott)

- added (platform-dependent) scan code to wxKeyEvent (Bryce Denney)

- added wxTextCtrl::EmulateKeyPress()

- Added wxMouseCaptureChangedEvent

- Added custom character filtering to wxTextValidator

- wxTreeCtrl now supports incremental keyboard search

- wxMessageOutput class added

- wxHelpProvider::RemoveHelp added and called from ~wxWindowBase

so that erroneous help strings are no longer found as the hash

table fills up

- updated libpng from 1.0.3 to 1.2.4

- Added wxView::OnClosingDocument so the application can do cleanup.

- generic wxListCtrl renamed to wxGenericListCtrl, wxImageList

renamed to wxGenericImageList, so they can be used on wxMSW

(Rene Rivera).

- Added wxTreeEvent::IsEditCancelled so the application can tell

whether a label edit was cancelled.

- added static wxFontMapper::Get() accessor

wxMSW:

- small appearance fixes for native look under Windows XP

- fixed the bug related to the redrawing on resize introduced in 2.3.2

- fixed multiple bugs in wxExecute() with IO redirection

- refresh the buttons properly when the window is resized (Hans Van Leemputten)

- huge (40\*) speed up in wxMask::Create()

- changing wxWidgets styles also changes the underlying Windows window style

- wxTreeCtrl supports wxTR\_HIDE\_ROOT style (George Policello)

- fixed flicker in wxTreeCtrl::SetItemXXX()

- fixed redraw problems in dynamically resized wxStaticText

- improvements to wxWidgets applications behaviour when the system colours

are changed

- choose implicit parent for the dialog boxes better

- fixed wxProgressDialog for ranges > 65535

- wxSpinButton and wxSpinCtrl now support full 32 bit range (if the version

of comctl32.dll installed on the system supports it)

- wxFontEnumerator now returns all fonts, not only TrueType ones

- bugs in handling wxFrame styles (border/caption related) fixed

- showing a dialog from EVT\_RADIOBUTTON handler doesn't lead to an infinite

recursion any more

- wxTextCtrl with wxTE\_RICH flag scrolls to the end when text is appended to it

- the separators are not seen behind the controls added to the toolbar any more

- wxLB\_SORT style can be used with wxCheckListBox

- wxWindowDC and wxClientDC::GetSize() works correctly now

- Added wxTB\_NODIVIDER and wxTB\_NOALIGN so native toolbar can be used in FL

- Multiline labels in buttons are now supported (simply use "\n" in the label)

- Implemented wxMouseCaptureChangedEvent and made wxGenericDragImage check it

has the capture before release it.

- fixed bugs in multiple selection wxCheckListBox

- default button handling is now closer to expected

- setting tooltips for wxSlider now works

- disabling a parent window also disables all of its children (as in wxGTK)

- multiple events avoided in wxComboBox

- tooltip asserts avoided for read-only wxComboBox

- fixed a race condition during a thread exit and a join

- fixed a condition where a thread can hang during message/event processing

- increased space between wxRadioBox label and first radio button

- don't fail to register remaining window classes if one fails to register

- wxFontDialog effects only turned on if a valid colour was

provided in wxFontData

- Added wxTE\_LEFT, wxTE\_CENTRE and wxTE\_RIGHT flags for text control alignment.

- Bitmap printing uses 24 bits now, not 8.

wxGTK:

- wxDirDialog now presents the file system in standard Unix way

- wxButton now honours wxBU\_EXACTFIT

- wxStaticBox now honours wxALIGN\_XXX styles

- added support for non alphanumeric simple character accelerators ('-', '=')

- new behaviour for wxWindow::Refresh() as it now produces a delayed refresh.

Call the new wxWindow::Update() to force an immediate update

- support for more SGI hardware (12-bit mode among others)

- fixed wxDC::Blit() to honour source DC's logical coordinates

- implemented wxIdleEvent::RequestMore() for simple background tasks

- implemented wxChoice::Delete()

- fixed bad memory leak in wxFileDialog (Chris Elliott)

- made internal GC pool dynamically growable

- added GTK+ 2 and Unicode support

wxMotif:

- improved colour settings return values (Ian Brown)

- improved border style handling for wxStaticText (Ian Brown)

- improved toolbar control alignment

- implemented wxSpinButton

- implemented wxCheckListBox

- fixed wxSpinCtrl and wxStaticLine when used with sizers

- wxStaticBitmap now shows transparent icons correctly

wxX11:

- added generic MDI implementation (Hans Van Leemputten)

- first cut at wxSocket support (not yet working)

wxMac:

- Many improvements

wxOS2:

- First alpha-quality release

wxHTML:

- fixed wxHtmlHelpController's cache files handling on big endian machines

- added blocking and redirecting capabilities to wxHtmlWindow via

wxHtmlWindow::OnOpeningURL()

- fixed alignment handling in tables

- fixed <font face="..."> handling to be case insensitive

2.3.2

-----

New port: wxUniv for Win32/GTK+ is now included in the distribution.

wxBase:

- wxRegEx class added

- wxGetDiskSpace() function added (Jonothan Farr, Markus Fieber)

- wxTextBuffer and wxTextFile(wxStream) added (Morten Hanssen)

- more fixes to wxMBConv classes. Conversion to and from wchar\_t now works with

glibc 2.2 as well as with glibc 2.1. Unix version now checks for iconv()'s

capabilities at runtime instead of in the configure script.

All (GUI):

- support for virtual list control added

- column images in report mode of the list control

- wxFindReplaceDialog added (based on work of Markus Greither)

- wxTextCtrl::SetMaxLength() added (wxMSW/wxGTK)

- polygon support in wxRegion (Klaas Holwerda)

- wxStreamToTextRedirector to allow easily redirect cout to wxTextCtrl added

- fixed bug with using wxExecute() to capture huge amounts of output

- new wxCalendarCtrl styles added (Søren Erland Vestø)

- wxWizard changes: loading from WXR support, help button (Robert Cavanaugh)

- wxDirSelector() added (Paul A. Thiessen)

- wxGrid cell editing veto support (Roger Gammans)

- wxListCtrl ITEM\_FOCUSED event added

- support for ICO files in wxImage added (Chris Elliott)

- improvements to wxDragImage (Chuck Messenger)

wxMSW:

- support for the DBCS fonts (CP 932, 936, 949, 950) (Nathan Cook)

- new library naming convention under VC++ -- please change your application

project files

wxGTK:

- fixed popup menu positioning bug

- fixed the edit function for wxListCtrl (Chuck Messenger)

- fixed the key-hitting events for wxListCtrl and wxTreeCtrl, so they

correctly return the key which was pressed (Chuck Messenger)

wxMac:

- support for configuration and build under Mac OS X using the Apple Developer

Tools

wxHTML:

- new HTML parser with correct parsing of character entities and fixes

to tags parsing

- added support for animated GIFs

2.3.1

-----

wxBase:

- Fixes for gcc 3.0

- Fixed new charset detection code

- ODBC Informix fixes (submitted by Roger Gammans)

- Added ODBC date support to wxVariant

- Added wxDir::Traverse

- Added wxSingleInstanceChecker class

- Removed redundant wxDebugContext functions using C++ streams,

so now standard stream usage should be unnecessary

All (GUI):

- Added wxDbGrid class for displaying ODBC tables

- Added EVT\_GRID\_EDITOR\_CREATED and wxGridEditorCreatedEvent so the

user code can get access to the edit control when it is created, (to

push on a custom event handler for example)

- Added wxTextAttr class and SetStyle, SetDefaultStyle and

GetDefaultStyle methods to wxTextCtrl

- Added wxSingleInstanceChecker

- Improvements to Tex2RTF

- Added Paul and Roger Gammans' grid controls

- Bug in wxDocument::Save logic corrected, whereby Save didn't save when not

first-time saved

- Fixed memory leak in textcmn.cpp

- Various wxXML enhancements

- Removed wxCLIP\_CHILDREN style from wxSplitterWindow

- Fixed memory leak in DoPrint, htmprint.cpp

- Fixed calendar sample bug with using wxCommandEvent::GetInt()

instead of GetId()

- Added wxDbGrid combining wxODBC classes with wxGrid

- Added more makefiles and project files for contrib hierarchy

wxMSW:

- Fixed wxApp::ProcessMessage so controls don't lose their

accelerators when the accelerators are redefined elsewhere

- Accelerators consisting of simple keystrokes (without control,

alt or shift) now work

- Compile fixes for Watcom C++ added

- Compile fixes for Cygwin 1.0 added

- Use SetForegroundWindow() in wxWindow::Raise() instead of BringWindowToTop()

- Replaced wxYield() call in PopupMenu() by a much safer

wxYieldForCommandsOnly() - fixes tree ctrl popup menu bug and other ones

- Enter processing in wxSpinCtrl fixed

- Fixed bug in determining the best listbox size

- Fix for wxFrame's last focus bug

- We now send iconize events

- Fixed wxFrame::SetClientSize() with toolbar bug

- Added mousewheel processing

- Added wxSystemSettings::Get/SetOption so we can configure

wxWidgets at run time; used this to implement no-maskblt option

in wxDC

- Fixed bug when using MDIS\_ALLCHILDSTYLES style: so now MDI

child frame styles are honoured

wxGTK:

- Fixed slider rounding bug

- Added code to set wxFont's default encoding to wxLocale::GetSystemEncoding()

- We now send iconize events

- Fix for discrepancies between wxNotebookEvent and wxNotebook

GetSelection() results

2.3.0

-----

wxBase:

- fixed problem with wxURL when using static version of the library

- wxZipFSHandler::FindFirst() and FindNext() now correctly list directories

- wxMimeTypesManager now can create file associations too (Chris Elliott)

- wxCopyFile() respects the file permissions (Roland Scholz)

- wxFTP::GetFileSize() added (Søren Erland Vestø)

- wxDateTime::IsSameDate() bug fixed

- wxTimeSpan::Format() now behaves more as expected, see docs

- wxLocale now provides much more convenient API for setting language and

detecting current system language. New API is more abstracted and truly

cross-platform, independent of underlying C runtime library.

All (GUI):

- new wxToggleButton class (John Norris, Axel Schlueter)

- wxCalendarCtrl not highlighting the date with time part bug fixed

- wxADJUST\_MINSIZE sizer flag added

- FindOrCreateBrush/Pen() bug fix for invalid colour values

- new wxXPMHandler for reading and writing XPM images

- added new (now recommended) API for conversion between wxImage and wxBitmap

(wxBitmap::ConvertToImage() and wxBitmap::wxBitmap(wxImage&) instead of

wxImage methods and ctor)

- ODBC classes now support DB2, Interbase, and Pervasive SQL

- ODBC documentation complete!!

- ODBC classes have much Unicode support added, but not complete

- ODBC experimental BLOB support added, but not completely tested

- ODBC NULL column support completed (Roger/Paul Gammans)

- ODBC All "char \*" and char arrays removed and replaced with wxString use

wxMSW:

- threads: bug in wxCondition::Broadcast fixed (Pieter van der Meulen)

- fixed bug in MDI children flags (mis)handling

- it is possible to compile wxCHMHelpController with compilers

other than Visual C++ now and hhctrl.ocx is loaded at runtime

wxGTK:

- added support for wchar\_t (wxUSE\_WCHAR\_T) under Unix

wxHTML:

- mew feature, wxHtmlProcessor for on-the-fly modification of HTML markup

- visual enhancements to contents panel of wxHtmlHelpController

2.2.0

-----

wxBase:

- Fixed bug with directories with trailing (back)slashes in wxPathExists

- wxString: added wxArrayString::operator==() and !=()

- Fixes for wxCmdLineParser

- Added wxGetLocalTimeMillis

- Completed Czech translations

- Some stream corrections

- added missing consts to wxPoint operators

- wxDateTime ParseFormat fixes

- wxFile::Open(write\_append) will create file if it doesn't exist

- small fixes to MIME mailcap test command handling, more MIME tests in the sample

All (GUI):

- wxGenericDragImage now allows virtual image drawing, and

flicker-free dragging is now possible

- Added wxPrinter::GetLastError

- Fixed wxLogGui reentrancy problem

- Paper names now translated

- wxGrid fixes

- Generic validator now caters for more cases (integers in

wxTextCtrl, strings in wxChoice, wxComboBox)

- Fixed crash when docview On... functions return FALSE. Show

error message when an non-existent filename is typed into the Open

File dialog.

- Corrected Baltic font encoding handling

- wxImage: enhanced TIFF code, added new platform-independent BMP

writing code

- wxKeyEvent::GetKeyCode() and HasModifiers() added and documented

- Fixed wxPropertyForm crashes in sample

- wxWizard now calls TransferDataFromWindow() before calling

wxWizardPage::GetNext() fixing an obvious bug

wxMSW:

- wxWindow::GetCharWidth/Height now calculated accurately.

This will affect all .wxr dialog resources, so for

backward compatibility, please set

wxDIALOG\_UNIT\_COMPATIBILITY to 1 in setup.h

- wxListCtrl: set item text in LIST\_ITEM\_ACTIVATED events

- wxTextCtrl: implemented setting colours for rich edit controls

- wxColour now accepts both grey and gray

- BC++ DLL compilation fixed

- Watcom C++ makefiles improved for JPEG and TIFF compilation

- Fixed submenu accelerator bug

- Fixed dialog focus bug (crash if the previous window to have

the focus was destroyed before the dialog closed)

- Too-small default wxTextCtrl height fixed

- fixed "missing" initial resize of wxMDIChildFrame

- wxFrame restores focus better

- Now ignore wxTHICK\_FRAME in wxWindow constructor: only relevant to

frames and dialogs, interferes with other window styles otherwise

(sometimes you'd get a thick frame in a subwindow)

- wxTextCtrl insertion point set to the beginning of the control by SetValue

- Fix so wxMDIParentFrame is actually shown when Show(TRUE) is called.

- wxFileDialog: adjusts struct size if there's an error (struct

sizes can be different on different versions of Windows)

- wxImageList::GetSize() documented and added to wxMSW

- fixed default dialog style to make them non resizable again

- fixed wxFrame::IsShown() which always returned TRUE before

wxGTK:

- Please see docs/gtk/changes.txt.

wxMotif:

- Small compilation fixes

Documentation:

- wxCaret documented

2.1.16

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wxBase:

All (GUI):

wxMSW:

- Various bug fixes

- Added wxCHMHelpController, for invoking MS HTML Help

files. This works under VC++ only

- Modal dialog handling improved

- Printer dialog now modal

wxGTK:

- Various bug fixes

wxMotif:

- Various bug fixes

2.1.15

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Documentation:

- Added docs/tech for technical notes

File hierarchy:

- Started new contrib hierarchy that mirrors

the main lib structure; moved OGL and MMedia into it

wxBase:

- wxSocket support

- wxDateTime replaces and extends old wxDate and wxTime classes (still

available but strongly deprecated) with many new features

- wxLongLong class provides support for (signed) 64 bit integers

- wxCmdLineParser class for parsing the command line (supporting short and

long options, switches and parameters of different types)

- it is now possible to build wxBase under Win32 (using VC++ only so far)

and BeOS (without thread support yet)

- wxThread class modified to support both detached and joinable threads, also

added new GetCPUCount() and SetConcurrency() functions (useful under Solaris

only so far)

- wxDir class for enumerating files in a directory

- wxLog functions are now (more) MT-safe

- wxStopWatch class, timer functions have more chances to return correct

results for your platform (use ANSI functions where available)

- wxString::ToLong, ToULong, ToDouble methods and Format() static one added

- buffer overflows in wxString and wxLog classes fixed (if snprintf() function

is available)

- wxArray::RemoveAt() replaces deprecated wxArray::Remove(index)

all (GUI):

- Added wxImage::Rotate.

- new wxCalendarCtrl class for picking a date interactively

- wxMenu(Bar)::Insert() and Remove() functions for dynamic menu management

- wxToolBar supports arbitrary controls (not only buttons) and can be

dynamically changed (Delete/Insert functions)

- vertical toolbars supported by MSW and GTK native wxToolBar classes

- wxTreeCtrl and wxListCtrl allow setting colour/fonts for individual items

- "file open" dialog allows selecting multiple files at once (contributed by

John Norris)

- wxMimeTypesManager uses GNOME/KDE MIME database to get the icons for the

MIME types if available (Unix only)

- wxDC::DrawRotatedText() (based on contribution by Hans-Joachim Baader)

- TIFF support added (libtiff required and included in the distribution)

- PCX files can now be written (256 and 24 bits)

- validators may work recursively if wxWS\_EX\_VALIDATE\_RECURSIVELY is set

- wxScrolledWindow now has keyboard interface

- wxTextEntryDialog may be used for entering passwords (supports wxTE\_PASSWORD)

- added wxEncodingConverter and improved wxFontMapper

for dealing with conversions between different encodings,

charsets support in wxLocale and wxHTML

- wxDragImage class added

- samples/help improved to show standard and advanced HTML help

controllers, as well as native help

- moved wxTreeLayout class to main lib

wxMSW:

- wxFrame::MakeFullScreen added.

- support for enhanced metafiles added, support for copying/pasting metafiles

(WMF and enhanced ones) fixed/added.

- implemented setting colours for push buttons

- wxStatusBar95 may be now used in dialogs, panels (not only frames) and can be

positioned along the top of the screen and not only at the bottom

- wxTreeCtrl::IsVisible() bug fixed (thanks to Gary Chessun)

- loading/saving big (> 32K) files in wxTextCtrl works

- tooltips work with wxRadioBox

- wxBitmap/wxIcon may be constructed from XPM included into a program, as in

Unix ports

- returning FALSE from OnPrintPage() aborts printing

- VC++ makefiles and project files made (mostly) consistent

- wxSetCursorEvent added

wxGTK:

- wxFontMapper endless recursion bug (on some systems) fixed

- wxGTK synthesizes wxActivateEvents

- UpdateUI handlers may be used with wxTextCtrl

wxMotif:

- wxMenu::Enable works

- wxToolBar bugs fixed

- OGL samples made to work again

wxHTML:

- almost complete rewrite of wxHtmlHelpController,

including faster search, bookmarks, printing, setup dialog

and cross-platform binary compatible .cached files for faster

loading of large helpbooks, case insensitive search

split into 3 parts: wxHtmlHelpData, Frame and Controller

- added support for charsets and <meta> tag

- added support for font faces and justified paragraphs,

taken some steps to prepare wxHTML for frames

- added dynamic pushing/popping of wxHtmlParser tag handlers

- improved HTML printing

- added extensive table of HTML characters substitutions (&nbsp; etc.)

- fixed wxHtmlWindow flickering, several minor bugfixes

- added some tags: <address>, <code>, <kbd>, <samp>, <small>, <big>,

fixed handling of relative and absolute font sizes in <font size>

NOTE: for changes after wxWidgets 2.1.0 b4, please see the CVS

change log.

2.1.0, b4, May 9th 1999

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wxGTK:

- JPEG support added.

- Many fixes and changes not thought worth mentioning in this file :-)

wxMSW:

- wxNotebook changes: can add image only; wxNB\_FIXEDWIDTH added;

SetTabSize added.

- JPEG support added.

- Fixes for Cygwin compilation.

- Added wxGA\_SMOOTH and wxFRAME\_FLOAT\_ON\_PARENT styles.

- Many fixes people didn't tell this file about.

wxMotif:

General:

- Some changes for Unicode support, including wxchar.h/cpp.

2.0.1 (release), March 1st 1999

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wxGTK:

- wxGLCanvas fixes.

- Slider/spinbutton fixes.

wxMSW:

- Fixed problems with <return> in dialogs/panels.

- Fixed window cursor setting.

- Fixed toolbar sizing and edge-clipping problems.

- Some makefile fixes.

wxMotif:

- None.

General:

- Added wxUSE\_SOCKETS.

- More topic overviews.

- Put wxPrintPaperType, wxPrintPaperDatabase into

prntbase.h/cpp for use in non-PostScript situations

(e.g. Win16 wxPageSetupDialog).

Beta 5, February 18th 1999

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wxGTK:

- wxExecute improved.

wxMSW:

- Fixed wxWindow::IsShown (::IsWindowVisible doesn't behave as

expected).

- Changed VC++ makefiles (.vc) so that it's possible to have

debug/release/DLL versions of the library available simultaneously,

with names wx.lib, wx\_d.lib, wx200.lib(dll), wx200\_d.lib(dll).

- Added BC++ 5 IDE files and instructions.

- Fixed wxChoice, wxComboBox constructor bugs (m\_noStrings initialisation).

- Fixed focus-related crash.

wxMotif:

- Cured asynchronous wxExecute crash.

- Added repaint event handlers to wxFrame, wxMDIChildFrame.

General:

- wxLocale documented.

- Added include filenames to class reference.

- wxHelpController API changed: SetBrowser becomes SetViewer,

DisplaySection works for WinHelp, help sample compiles under Windows

(though doesn't display help yet).

Beta 4, February 12th 1999

--------------------------

wxGTK:

- Miscellaneous fixes.

wxMSW:

- Makefiles for more compilers and samples; Cygwin makefiles

rationalised.

- Added VC++ project file for compiling wxWidgets as DLL.

wxMotif:

- Added OnEraseBackground invocation.

- Added wxRETAINED implementation for wxScrolledWindow.

- Cured scrolling display problem by adding XmUpdateDisplay.

- Tried to make lex-ing in the makefile more generic (command line

syntax should apply to both lex and flex).

- Changed file selector colours for consistency (except for buttons:

crashes for some reason).

- Fixed wxMotif version of wxImage::ConvertToBitmap (used new instead

of malloc, which causes memory problems).

General:

- Further doc improvements.

- wxGenericValidator added.

- Added wxImageModule to image.cpp, so adds/cleans up standard handlers

automatically.

Beta 3, January 31st 1999

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wxGTK:

- wxClipboard/DnD API changes (still in progress).

- wxToolTip class added.

- Miscellaneous fixes.

wxMSW:

- wxRegConfig DeleteAll bug fixed.

- Makefiles for more compilers.

- TWIN32 support added.

- Renamed VC++ makefiles from .nt to .vc, and

factored out program/library settings.

- Fixed wxIniConfig bug.

wxMotif:

- A few more colour fixes.

- wxGLCanvas and OpenGL samples working.

- Some compiler warnings fixed.

- wxChoice crash fix.

- Dialog Editor starting to work on Motif.

General:

- wxBusyCursor class added.

- Added samples/dde.

- More doc improvements, incl. expanding docs/html/index.htm.

Beta 2, January 1999

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wxGTK:

wxMSW:

- 16-bit BC++ compilation/linking works albeit without the resource system.

wxMotif:

- Cured wxScreenDC origin problem so e.g. sash window sash is drawn at

the right place.

- Cured some widget table clashes.

- Added thread support (Robert).

- wxPoem sample now works.

General:

- Rearranged documentation a bit.

- Sash window uses area of first frame/dialog to paint over when drawing

the dragged sash, not just the sash window itself (it clipped to the right

or below).

- Made resource sample use the correct Cancel button id.

- Moved wxProp to main library (generic directory), created proplist

sample.

- Added bombs and fractal samples.

Beta 1, December 24th 1998

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wxGTK:

- Various

wxMSW, wxMotif: not in sync with this release.

Alpha 18, December 29th 1998

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wxMSW:

- Win16 support working again (VC++ 1.5)

- Win16 now uses generic wxNotebook, wxListCtrl,

wxTreeCtrl -- more or less working now, although

a little work on wxNotebook is still needed.

Under 16-bit Windows, get assertion when you click

on a tab.

- Wrote 16-bit BC++ makefiles: samples don't yet link.

- Added CodeWarrior support to distribution courtesy

of Stefan Csomor.

wxMotif:

- Cured scrolling problem: scrollbars now show/hide themselves

without (permanently) resizing the window.

- Removed some commented-out lines in wxScrolledWindow::AdjustScrollbars

that disabled scrollbar paging.

- Set background colour of drawing area in wxWindow, so e.g. wxListCtrl

colours correctly.

- Removed major bug whereby dialogs were unmanaged automatically

when any button was pressed.

- Fixed colours of wxWindow scrollbars, made list and text controls

have a white background.

- Fixed dialog colour setting.

- Added settable fonts and colours for wxMenu/wxMenuBar. Now

they have sensible colours by default.

- Fixed a bug in wxStaticBox.

- Cured wxTreeCtrl bug: now works pretty well!

- Debugged DrawEllipticArc (a ! in the wrong place).

- Added SetClippingRegion( const wxRegion& region ).

- Added wxPoint, wxSize, wxRect versions of SetSize etc.

Alpha 17, November 22nd 1998

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wxMSW:

- More documentation updates, especially for

wxLayoutWindow classes and debugging facilities.

- Changed wxDebugContext to use wxDebugLog instead

of wxTrace.

- Now supports VC++ 6.0, and hopefully BC++ 5.0.

However, DLL support may be broken for BC++ since

VC++ 6 required changing of WXDLLEXPORT keyword

position.

- Numerous miscellaneous changes.

wxMotif:

- Reimplemented MDI using wxNotebook instead of the MDI widgets, which

were too buggy (probably not design for dynamic addition/removal of

child frames).

- Some improvements to the wxNotebook implementation.

- wxToolBar now uses a bulletin board instead of a form, in an attempt

to make it possible to add ordinary wxControls to a toolbar.

- Cured problem with not being able to use global memory operators,

by defining two more global operators, so that the delete will match

the debugging implementation.

- Added wxUSE\_DEBUG\_NEW\_ALWAYS so we can distinguish between using

global memory operators (usually OK) and #defining new to be

WXDEBUG\_NEW (sometimes it might not be OK).

- Added time.cpp to makefile; set wxUSE\_DATETIME to 1.

- Added a parent-existence check to popup menu code to make it not crash.

- Added some optimization in wxWindow::SetSize to produce less flicker.

It remains to be seen whether this produces any resize bugs.

It's a long time since I updated this file. Previously done:

- wxFrame, wxDialog done.

- wxScrolledWindow done (but backing pixmap not used at present).

- wxBitmap done though could be tidied it up at some point.

- Most basic controls are there, if not rigorously tested.

- Some MDI support (menus appear on child frames at present).

- wxNotebook almost done.

- wxToolBar done (horizontal only, which would be easy to extend

to vertical toolbars).

More recently:

- Colour and font changing done (question mark over what happens

to scrollbars).

- Accelerators done (for menu items and buttons). Also event loop

tidied up in wxApp so that events are filtered through ProcessXEvent.

- wxWindow::GetUpdateRegion should now work.

Alpha 16, September 8th 1998

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wxMSW:

- Added wxSashWindow, wxSashLayoutWindow classes, and sashtest

sample.

- Guilhem's socket classes added, plus wxsocket sample.

- A few more makefiles added.

- GnuWin32/BC++ compatibility mods.

- Further doc updates.

- wxProp updates for correct working with wxGTK.

wxMotif:

- First start at Motif port.

- Made makefiles for wxMotif source directory and minimal sample.

- First go at wxApp, wxWindow, wxDialog, wxPen, wxBrush, wxFont,

wxColour, wxButton, wxCheckBox, wxTextCtrl, wxStaticText,

wxMenu, wxMenuItem, wxMenuBar

Alpha 15, August 31st 1998

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wxMSW:

- wxBitmap debugged.

- wxDC::GetDepth added.

- Contribution added whereby wxBitmap will be

converted to DC depth if they don't match.

- wxConfig API improved, documentation updated.

- Printing classes name conventions cleaned up.

- wxUpdateUIEvent now derives from wxCommandEvent

so event can travel up the window hierarchy.

Alpha 14, July 31st 1998

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wxMSW:

- Toolbar API has been simplified, and now

wxFrame::GetClientArea returns the available client

area when toolbar, status bar etc. have been accounted for.

wxFrame::CreateToolBar added in line with CreateStatusBar.

- Documentation updates, incl. for wxToolBar.

- New wxAcceleratorTable class plus wxFrame::SetAcceleratorTable.

- Various additions from other folk, e.g. streams, wxConfig

changes, wxNotebook.

- Added wxDocMDIParentFrame, wxDocMDIChildFrame for doc/view.

Alpha 13, July 8th 1998

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wxMSW:

- Implemented wxPoint as identical to POINT on Windows, and

altered wxDC wxPoint functions to use wxPoint directly in

Windows functions, for efficiency.

- Cured wxASSERT bug in wxStatusBar95.

- #ifdefed out some bits in oleutils.cpp for compilers that

don't support it.

- Added some operators to wxPoint, wxSize.

- Added inline wxDC functions using wxPoint, wxSize, wxRect.

Alpha 12, July 7th 1998

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wxMSW:

- Added wxApp::GetComCtl32Version, and wxTB\_FLAT style, so can

have flat toolbars on Win98 or Win95 with IE >= 3 installed.

Alpha 11, July 3rd 1998

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wxMSW:

- Added thread.h, thread.cpp.

- Changed Enabled, Checked to IsEnabled, IsChecked in wxMenu,

wxMenuBar.

- Changed wxMenuItem::SetBackColor to SetBackgroundColour,

SetTextColor to SetTextColour, and added or made public several

wxMenuItem accessors.

- Added two overloads to wxRegion::Contains. Added

wxRegion::IsEmpty for a more consistent naming convention.

- Added Vadim's wxDataObject and wxDropSource.

- ENTER/LEAVE events now work.

- Cured wxMemoryDC bug where the DC wasn't being deleted.

- Cured wxGauge SetSize major bugginess.

- Cured problem where if a GDI object was created on the stack,

then went out of scope, then another object was selected into

the DC, GDI objects would leak. This is because the assignment

to e.g. wxDC::m\_pen would delete the GDI object without it first

being selected out of the DC. Cured by selecting the old DC object

first, then doing the assignment.

- Split up wxGaugeMSW, wxGauge95, wxSliderMSW, wxSlider95

- Various other bug fixes and additions.

Generic:

- Major work on Dialog Editor (still plenty to go).

- Expanded documentation a bit more.

Alpha 10, May 7th 1998

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wxMSW:

- Added desiredWidth, desiredHeight parameters to wxBitmapHandler

and wxIcon functions so that you can specify what size of

icon should be loaded. Probably will remain a Windows-specific thing.

- wxStatusBar95 now works for MDI frames.

- Toolbars in MDI frames now behave normally. They still

require application-supplied positioning code though.

- Changed installation instructions, makefiles and batch files

for compiling with Gnu-Win32/Mingw32/EGCS. Also timercmn.cpp

change to support Mingw32/EGCS. Bison now used by default.

Alpha 9, April 27th 1998

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wxMSW:

- Cured bug in wxStatusBar95 that caused a crash if multiple

fields were used.

- Added Gnu-Win32 b19/Mingw32 support by changing resource

compilation and pragmas.

- Cured wxMenu bug introduced in alpha 8 - didn't respond to

commands because VZ changed the id setting in wxMenu::MSWCommand.

Generic:

- Corrected some bugs, such as the wxModule compilation problem.

- Added Gnu-Win32 b19/Mingw32 support by changing resource

compilation and pragmas.

- Changed SIZEOF to WXSIZEOF.

Alpha 8, April 17th 1998

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wxMSW:

- Added IsNull to wxGDIObject to check if the ref data is present or not.

- Added PNG handler and sample - doesn't work for 16-bit PNGs for

some reason :-(

- Added wxJoystick class and event handling, and simple demo.

- Added simple wxWave class. Needs Stop() function.

- Added wxModule (module.h/module.cpp) to allow definition

of modules to be initialized and cleaned up on wxWidgets

startup/exit.

- Start of Mingw32 compatibility (see minimal and dialogs samples

makefile.m95 files, and install.txt).

- Note: Windows printing has stopped working... will investigate.

VADIM'S CHANGES:

- Updated wxString: bug fixes, added wxArrayString, some

compatibility functions.

- Updated log.h/cpp, added wxApp::CreateLogTarget.

- file.h: new wxTempFile class.

- defs.h: added wxSB\_SIZE\_GRIP for wxStatusBar95

- statbr95: wxStatusBar95 control.

- registry.h/cpp: wxRegKey class for Win95 registry.

- listbox.cpp: corrected some bugs with owner-drawn listboxes.

- wxConfig and wxFileConfig classes.

Generic:

- Added src/other/png, src/other/zlib directories.

- Added samples/png.

- IMPORTANT: Changed 'no id' number from 0 to -1, in wxEVT\_ macros.

Porters, please check particularly your wxTreeCtrl and wxListCtrl

header files.

- Added modules.h/cpp, config.cpp, fileconf.cpp, textfile.cpp/h.

Alpha 7, March 30th 1998

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wxMSW:

- Added tab classes, tab sample.

- Now can return FALSE from OnInit and windows will be

cleaned up properly before exit.

- Improved border handling so panels don't get borders

automatically.

- Debugged MDI activation from Window menu.

- Changes to memory debug handling, including checking for

memory leaks on application exit - but see issues.txt for

unresolved issues.

- Added wxTaskBarIcon (taskbar.cpp/h, plus samples/taskbar)

to allow maintenance of an icon in the Windows 95 taskbar

tray area.

- Got MFC sample working (MFC and wxWidgets in the same

application), partly by tweaking ntwxwin.mak settings.

- Got DLL compilation working again (VC++).

- Changed wxProp/Dialog Editor filenames.

Generic:

- Added tab classes, tab sample.

- Revised memory.cpp, memory.h slightly; memory.h now #defines

new to WXDEBUG\_NEW in DEBUG mode. Windows implementation app.cpp

now checks for leaks on exit. Added memcheck sample.

See src/msw/issues.txt for more details.

- resource.h, resource.cpp changed to make wxDefaultResourceTable

a pointer. Now initialize resource system with

wxInitializeResourceSystem and wxCleanUpResourceSystem, to

allow better control of memory.

- wxString now derives from wxObject, to enable memory leak

checking.

- Added some #include fixes in various files, plus changed

float to long in wxToolBar files.

Alpha 6, March 10th 1998

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wxMSW:

- Found stack error bug - stopped unwanted OnIdle recursion.

- Removed bug in wxTreeCtrl::InsertItem I added in alpha 5.

- Changed exit behaviour in wxApp/wxFrame/wxDialog. Now will

check if the number of top-level windows is zero before

exiting. Also, wxApp::GetTopWindow will return either

m\_topWindow or the first member of wxTopLevelWindows, so you

don't have to call wxApp::SetTopWindow.

- Added dynarray.h/dynarray.cpp (from Vadim).

- Added first cut at OLE drag and drop (from Vadim). dnd sample

added. Drop target only at this stage. See src/msw/ole/\*.cpp,

wx/include/msw/ole/\*.h. WIN32 only because of UUID usage.

Doesn't work with GnuWin32 - no appropriate headers e.g. for

IUnknown.

Doesn't work with BC++ either - crashes on program startup.

- Added Vadim's owner-draw modifications - will probably remain

Windows-only. This enhances wxMenu, wxListBox. See ownerdrw sample.

- Added wxLB\_OWNERDRAW for owner-draw listboxes.

- Vadim's wxCheckListBox derives from wxListBox. See checklst sample.

Doesn't entirely work for WIN16.

- Vadim has added wxMenuItem as a separate file menuitem.cpp. It

can also be used as an argument to wxMenu::Append, not just for

internal implementation.

- Some #ifdefs done for MINGW32 compilation (just alter OPTIONS

in makeg95.env, together with mingw32.bat). However, resource

binding is not working yet so most apps with dialogs crash.

Generic:

- Added Vadim's dynarray.h, dynarray.cpp.

- Added Vadim's menuitem.cpp.

- Added Windows-specific wxCheckListBox,

owner-draw wxListBox, and drag-and-drop

(see docs/msw/changes.txt).

Alpha 5, 14th February 1998

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wxMSW:

- GENERIC AND MSW-SPECIFIC CODE NOW TREATED AS TWO SEPARATE

DISTRIBUTIONS. This change log will therefore now refer to

the Windows-specific code only. See docs/changes.txt for generic

changes.

- Removed Windows-specific reference counting system (GDI

resources were cleaned up in idle time) - minimal

advantages now we have a wxWin reference counting system.

- Added missing WXDLLEXPORT keywords so DLL compilation works

again.

- Removed most warnings for GnuWin32 compilation.

- Added wxRegion/wxRegionIterator, but haven't yet used it in

e.g. wxDC.

Generic:

- GENERIC AND MSW-SPECIFIC CODE NOW TREATED AS TWO SEPARATE

DISTRIBUTIONS. This change log will therefore now refer to

the generic code only. See docs/msw/changes.txt for Windows-specific

changes.

- Readmes, change logs and installation files now go in

platform-specific directories under docs, e.g. docs/msw,

docs/gtk.

- Added DECLARE\_APP and IMPLEMENT\_APP macros so wxApp object gets

created dynamically, not as a global object.

- Put wxColour into wx/msw/colour.h, src/msw/colour.cpp.

- Changed names of some include/wx/generic headers to be

consistent and to conform to gcc pragma conventions. Also

changed choicesg.cpp to choicdgg.cpp.

- Added gcc pragmas.

- Added gtk inclusion in include/wx headers.

- Added consistent file headings to source and headers.

- Removed lang.cpp, lang.h and references to wxSTR\_... variables;

added a few references to wxTransString.

- Added operator to wxTransString that converts automatically

to wxString, so we can say e.g. wxMessageBox(wxTransString("Hello"), ...).

- samples/internat now works (minimally).

- Added wxMouseEvent::GetPosition and

wxMouseEvent::GetLogicalPosition, both returning wxPoints.

- Made wxSize and wxRect contain longs not ints.

- Cured some memory leaks (thanks Vadim).

- Tidied up OnIdle and introduced RequestMore/MoreRequested so

will only keep processing OnIdle if it returns TRUE from

MoreRequested.

Alpha 4, 31st January 1998

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All:

- Changed wxDC functions to take longs instead of floats. GetSize now takes

integer pointers, plus a version that returns a wxSize.

- const keyword added to various wxDC functions.

- Under Windows, wxDC no longer has any knowledge of whether

an associated window is scrolled or not. Instead, the device

origin is set by wxScrolledWindow in wxScrolledWindow::PrepareDC.

- wxScrolledWindow applications can optionally override the virtual OnDraw

function instead of using the OnPaint event handler. The wxDC passed to

OnDraw will be translated by PrepareDC to reflect scrolling.

When drawing outside of OnDraw, must call PrepareDC explicitly.

- wxToolBarBase/wxToolBarSimple similarly changed to allow for

scrolling toolbars.

- Integrated wxPostScriptDC patches for 1.xx by Chris Breeze,

to help printing with multiple pages.

- IPC classes given base classes (wxConnectionBase etc.) which

define the API used by different implementations. DDE

implementation updated to use these base classes.

- wxHelpInstance now separated into wxHelpControllerBase (base

for all implementations), wxWinHelpController (uses standard

WinHelp), wxXLPHelpController (talks to wxHelp by DDE or

TCP/IP). There will be others eventually, such as

wxHTMLHelpController for Microsoft (and Netscape?) HTML Help.

- Added Vadim Zeitlin's wxString class plus

internationalization code (gettext simulation, wxLocale, etc.).

New files from Vadim:

include\wx\string.h

include\wx\debug.h

include\wx\file.h

include\wx\log.h

include\wx\intl.h

src\common\string.cpp

src\common\log.cpp

src\common\intl.cpp

src\common\file.cpp

No longer use GNU wxString files.

- Split off file-related functions into include\wx\filefn.h and

src\common\filefn.cpp.

- Borland C++ support (WIN32) for main library and

samples, using makefile.b32 files.

- Preparation done for allowing BC++ to compile wxWin as a DLL,

including changes to defs.h.

- wxIntPoint removed, wxPoint is now int, and wxRealPoint

introduced.

- Added wxShowEvent (generated when window is being shown or

hidden).

- Got minimal, docview, mdi samples working for 16-bit VC++ and

cured 16-bit problem with wxTextCtrl (removed global memory

trick).

- Updated GnuWin32 makefiles, checked minimal, mdi, docview samples.

Alpha 3, September 1997

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All:

- wxListCtrl, wxTreeCtrl, wxImageList classes done.

- Instigated new file hierarchy, split files and classes up more logically.

- PrologIO and some other utils now put into core library.

- Revamped print/preview classes, added wxPageSetupDialog.

- Started documentation.

Alpha 2, 30th April 1997

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All:

- EVT\_... macros now have at least one argument, for conformance

with MetroWerks compiler.

- Added ids to .wxr file format.

- Got Dialog Editor compiled and running again but need

to extend functionality to be in line with new controls.

Added dialoged\test app to allow dynamic loading of .wxr files

for testing purposes.

- Rewrote wxBitmap to allow installable file type

handlers.

- Rewrote wxBitmapButton, wxStaticBitmap to not use Fafa.

- Wrote most of wxTreeCtrl and sample (need wxImageList to implement it

fully).

- Added back wxRadioBox.

- Tidied up wx\_main.cpp, wxApp class, putting PenWin code in

a separate file.

Alpha 1, 5th April 1997

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Generic:

At this point, the following has been achieved:

- A lot, but not all, of the code has been revamped for better

naming conventions, protection of data members, and use of

wxString instead of char \*.

- Obsolete functionality deleted (e.g. default wxPanel layout,

old system event system) and code size reduced.

- Class hierarchy changed (see design doc) - base classes such

as wxbWindow now removed.

- No longer includes windows.h in wxWin headers, by using stand-in

Windows types where needed e.g. WXHWND.

- PrologIO revised.

- wxScrolledWindow, wxStatusBar and new MDI classes added.

MDI is now achieved using separate classes, not window styles.

- wxSystemSettings added, and made use of to reflect standard

Windows settings.

- SetButtonFont/SetLabelFont replaced by SetFont; font and colour

settings mucho rationalised.

- All windows are now subclassed with the same window proc to make

event handling far more consistent. Old internal wxWnd and derived

classes removed.

- API for controls revised, in particular addition of

wxValidator parameters and removal of labels for some controls.

- 1 validator written: see examples/validate.

- Event table system introduced (see most samples and

wx\_event.cpp/ProcessEvent, wx\_event.h). wxEvtHandler

made more flexible, with Push/PopEventHandler allowing a chain

of event handlers.

- wxRadioBox removed - will be added back soon.

- Toolbar class hierarchy revised:

wxToolBarBase

wxToolBarSimple (= old wxToolBar)

wxToolBar95 (= old wxButtonBar under Win95)

wxToolBarMSW (= old wxButtonBar under WIN16/WIN32)

- Constraint system debugged somewhat (sizers now work properly).

- wxFileDialog, wxDirDialog added; other common dialogs now

have class equivalents. Generic colour and font dialogs

rewritten to not need obsolete panel layout.

- .wxr resource system partially reinstated, though needs

an integer ID for controls. Hopefully the resource system

will be replaced by something better and more efficient

in the future.

- Device contexts no longer stored with window and accessed

with GetDC - use wxClientDC, wxPaintDC, wxWindowDC stack

variables instead.

- wxSlider uses trackbar class under Win95, and wxSL\_LABELS flag

determines whether labels are shown. Other Win95-specific flags

introduced, e.g. for showing ticks.

- Styles introduced for dealing with 3D effects per window, for

any window: all Win95 3D effects supported, plus transparent windows.

- Major change to allow 3D effect support without CTL3D, under

Win95.

- Bitmap versions of button and checkbox separated out into new

classes, but unimplemented as yet because I intend to remove

the need for Fafa - it apparently causes GPFs in Win95 OSR 2.

- utils/wxprop classes working (except maybe wxPropertyFormView)

in preparation for use in Dialog Editor.

- GNU-WIN32 compilation verified (a month or so ago).