

27/06/2012

Customizing your application

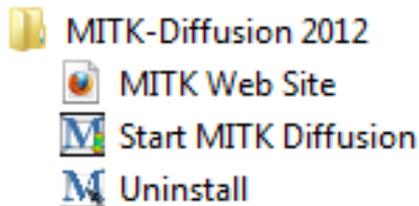
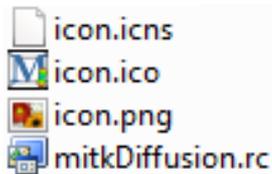
Now also sparkly and in pink

- Use Generator for application creation [1]
- For applications within MITK source tree
 - Copy `AppName.cpp` to `MITK/Applications/AppName/`
 - Enter `App` into `MITK/Applications/AppList.cmake`
 - Copy corresponding plugin to `MITK/Plugins` (optional)
- Potentially set `berry::Platform::ARG_APPLICATION` to your plugin in `AppName.cpp`

[1] <http://docs.mtk.org/nightly-qt4/NewPluginPage.html>

Choosing plugins and customizing icons

- Two ways to influence which plugins are build (Applications/AppName/CmakeLists.txt)
 - Either specifically exclude some
 - Or specifically include some
- For a custom icon create Applications/AppName/icons with icon.icns, icon.ico, icon.png and AppName.rc



```
set(_plugins
  org.commonstk.configadmin
  org.commonstk.eventadmin
  org.blueberry.osgi
  ...
  org.mitk.gui.qt.diffusionimaging
  org.mitk.gui.qt.imagenavigator
  org.mitk.gui.qt.moviemaker
)

set(_exclude_plugins
  org.blueberry.test
  org.blueberry.uitest
  org.mitk.gui.qt.coreapplication
  org.mitk.gui.qt.extapplication
)

FunctionCreateBlueBerryApplication(
  NAME ${DIFFUSIONAPP_NAME}
  DESCRIPTION "MITK Diffusion"
  PLUGINS ${_plugins}
  EXCLUDE_PLUGINS ${_exclude_plugins}
  LINK_LIBRARIES ${ALL_LIBRARIES}
  ${_app_options}
)
```

- Customize the workbench with your own workbench advisor

```
QmitkExtWorkbenchWindowAdvisor* advisor = new QmitkExtWorkbenchWindowAdvisor(this, configurer);  
advisor->ShowViewItemMenu(false);  
advisor->ShowNewWindowMenuItem(false);  
advisor->ShowClosePerspectiveMenuItem(false);  
advisor->SetPerspectiveExcludeList(perspExcludeList);  
advisor->SetViewExcludeList(viewExcludeList);  
advisor->ShowViewToolBar(false);  
advisor->ShowPerspectiveToolBar(true);  
advisor->ShowVersionInfo(false);  
advisor->ShowMitkVersionInfo(false);  
advisor->SetProductName("MITK Diffusion");  
advisor->SetWindowIcon(":/org.mitk.gui.qt.diffusionimagingapp/app-icon.png");  
return advisor;
```

- Provide custom workflows by using perspectives
- Use workbench advisor to set one perspective as default perspective

- For applications in the MITK tree
 - Active if only your app build
 - Overwrite default values
 - Change icon in Applications/AppName/CPackConfig.cmake.in
 - Change versioning and names in Applications/AppName/CPackOptions.cmake

```
set(CPACK_PACKAGE_EXECUTABLES "mitkDiffusion;MITK Diffusion")
set(CPACK_PACKAGE_NAME "MITK-Diffusion")
set(CPACK_PACKAGE_DESCRIPTION_SUMMARY "MITK application for processing of MR diffusion imaging data.")
# Major version is the year of release
set(CPACK_PACKAGE_VERSION_MAJOR "2012")
# Minor version is assigned depending on the number of releases that year, order is "", "a", "b"... , "z"
set(CPACK_PACKAGE_VERSION_MINOR "")
# Patch versioning is not intended to be done
set(CPACK_PACKAGE_VERSION_PATCH "")

# this should result in names like 2011, 2011a, ...
# version has to be set explicitly to avoid such things as CMake creating the install directory "MITK Diffusion 2011.."
set(CPACK_PACKAGE_VERSION "${CPACK_PACKAGE_VERSION_MAJOR}.${CPACK_PACKAGE_VERSION_MINOR}")

if(CMAKE_CL_64)
    set(CPACK_PACKAGE_FILE_NAME "MITK-Diffusion-${CPACK_PACKAGE_VERSION}-win64")
elseif(MINGW)
    set(CPACK_PACKAGE_FILE_NAME "MITK-Diffusion-${CPACK_PACKAGE_VERSION}-mingw32")
elseif(WIN32)
    set(CPACK_PACKAGE_FILE_NAME "MITK-Diffusion-${CPACK_PACKAGE_VERSION}-win32")
else()
    set(CPACK_PACKAGE_FILE_NAME "MITK-Diffusion-${CPACK_PACKAGE_VERSION}")
endif()
```