Introduction to Plasmate



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Plasma Vocabulary



Plasma Applets or Plasmoids

Plasma Dataengines

Plasma Runner

Plasma Theme

Plasma Libraries



- Before Qt 4.7.x
 - QGraphicsView Framework
- After Qt 4.7.x
 - QGraphicsView Framework
 - Qt Quick
 - QML

Plasma Package Structure



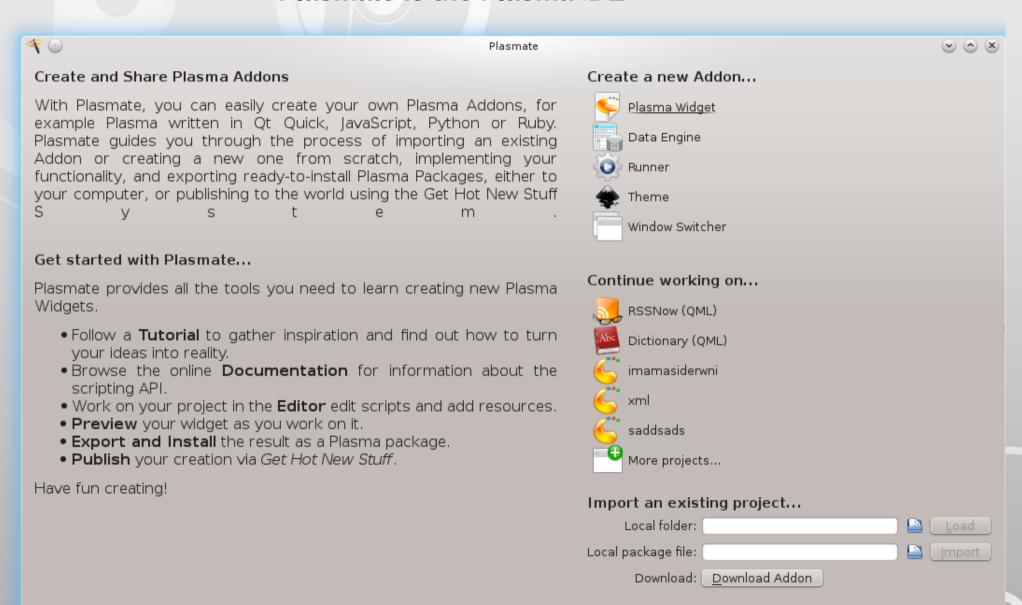
\$PackageName-\$PackageVersion/

- metadata.desktop
- contents/
 - code/
 - 1) files containing scripting code
 - 2) the main file that will be loaded at plasmoid start (unless you specify a different name in metadata.desktop)
 - images/
 - 1) image files in svg, png or jpeg format
 - locale/
 - 1)translation files in a standard localization hierarchy; e.g. German translation would appear in locale/l10n/de/
 - ui/
 - 1)user interface files, such as Qt Designer layouts
 - 2) config.ui the main configuration dialog layout
 - config/
 - 1)KConfigXt files describing the configuration
 - 2) main.xml the main configuration description

Plasmate

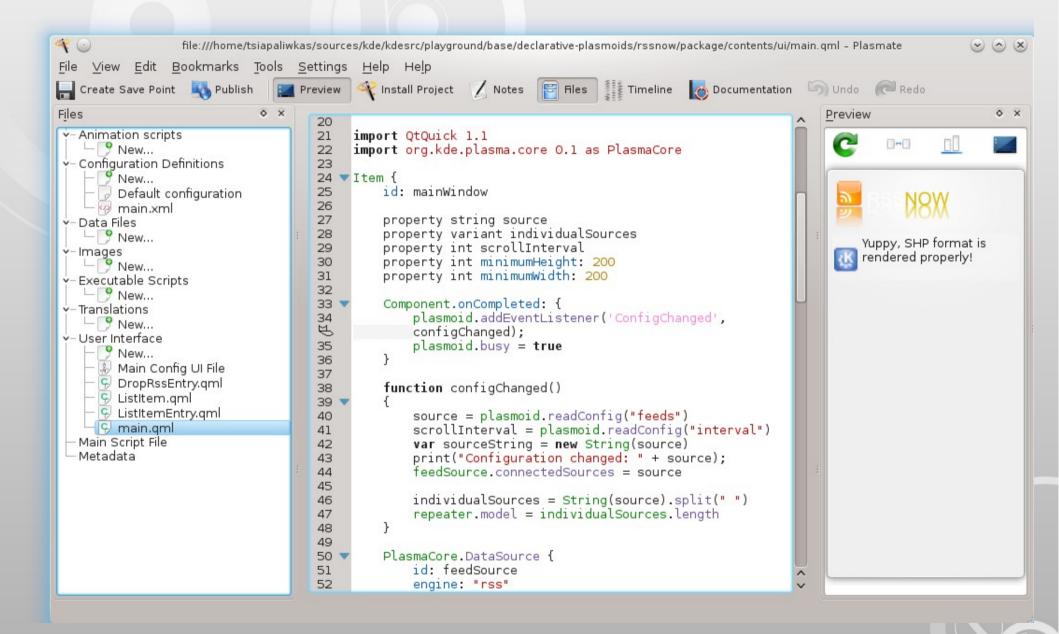


Plasmate is the Plasma IDE



Plasmate





Plasmate GsoC 2012 Projects

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- Project: Make Plasmate Ready For Release
- Mentor: Sebastian Kügler(sebas)
- Student: Giorgos Tsiapaliwkas(terietor)

- Project: Intergrade KWin with Plasmate IDE
- Mentor: Martin Graesslin(mgraesslin)
- Student Antonis Tsiapaliokas(kokeroulis)



Task 1

Add Window Switcher Support to Plasmate

Problem

 On slower systems, running 3-4 applications together, might turn the system very slow

Solution

A fake embedded previewer



Task 2

Add Kwin Scripting support for QML/Javascript based KWin Scripts

Problem

 Since Kwin Scripts doesn't have a previewer, we needed to create a konsole previewer, for debug purposes.

Solution

Terietor's GsoC involves to add a konsole previewer

Benefits

Reuse of code between the two GsoC Projects



Task 3

Add Kwin support for Javascript based KWin Effects

Problem

 Kwin effects must to be reload at some point, and in order to reload them we need to use the dbus.
 So we needed to create a konsole previewer, for debug purposes, in case that something goes wrong

Solution

Terietor's GsoC involves to add a konsole previewer

Benefits

Reuse of code between the two GsoC Projects



Task 4
Add support for QML based Window Decorations to Plasmate



Task 1

Plasmate's editor doesn't support actions.(Like undo/redo,etc)

Problem

• "Save" and "Save us" action



Task 2
Install remotely a plasma package

Problem

- Plasmapkg used KApplication(replaced with QcoreApplication)
- Plasma::Package::install() used to depend on Ui libraries



Task 3

Add a console which will contain the output from the debugger

Problem

Doesn't filter the output



Task 4

Fix KconfigXt editor



Task 5

- Move Plasma SvgViewer
- Read the elements of each svg



Task 6

- Merge plasmoidviewer with plasma-previewer
- Add support for the KDE_PLASMA_COMPONENTS_PLATFORM environmental variable



Task 7

Move the SDK tools into Plasmate

Plasma Contact



- Mailing List: plasma-devel@kde.org
- Irc: #plasma at irc.freenode.org
- Wiki:Community.kde.org/Plasma

Kwin Contact



- Mailing List: kwin@kde.org
- Irc: #kwin at irc.freenode.org
- Wiki:Community.kde.org/KWin