



# KDE Frameworks 5

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Be Free. KDE



# About me

David Faure



1999-2010: KFM, KIO, KParts, KHTML,  
Konqueror, KOffice, kdelibs ...

2011-2012: KDE Frameworks 5

Sponsored by Nokia to work on KDE - until now



# Available in Qt 5.0

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New: QStandardPaths  
(replaces KStandardDirs)

New: QTemporaryDir  
(replaces KTempDir)

New: QMimeType  
(replaces KMimeType)

New: QEventLoopLocker  
(replaces KGlobal::ref/deref)



# Available in Qt 5.0 (part 2)

Improved: QFile  
(replaces KTemporaryFile)

Improved: QMimeData  
(replaces KUrl mimedata support)

Improved: qDebug  
(output, first steps for categories)

Finally working: QUrl  
(replaces KUrl)





# Planned for Qt-5.1

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## QtCore

Command-line arguments

Global statics

Safe file saving

File locking

URL path manipulation

Locale and date/time (calendar support)



# Planned for Qt-5.1

## QtWidgets

QLineEdit: clear button, text squeezing, URL drops

QTextEdit: placeholder text

QMenu: titles, keyboard navigation

QLabel: text squeezing

QPushButton: delayed menu

etc.



# No more sycoca

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Mimetypes: on-disk caches generated

Protocol files: read directly, on demand

App desktop files: on-disk cache in progress

App/mime user associations: mime.apps file

KDE services: to be switched to new Qt plugin framework

TODO: K menu (vfolder spec)



# No more global KComponentData

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Application name: QCoreApplication  
(config file, temp files, etc.)

User-visible name:  
QApplication::setApplicationDisplayName()





# No more KApplication

DBus registration: KDBusService

Native event filtering (X11) -> QCoreApplication

Session management -> TODO in QPA



# No more KToolInvocation

(almost)

invokeBrowser, invokeMailer  
=> QDesktopServices::openUrl

startServiceBy  
=> DBus autolaunch

invokeHelp, invokeTerminal  
=> Keep? Tier4 "KDE consistency" framework  
No standard solution for help...



# No more KGlobal

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KGlobal::config() => KSharedConfig::openConfig()

KGlobal::dirs() => QStandardPaths::

KGlobal::locale() => QLocale()



# Available frameworks (1)

karchive

solid

threadweaver

kcoreaddons (jobs, autosave, backup, cache)

kguiaddons (icon loading, color utils...)

kwidgetsaddons (additional widgets)

kdbusaddons (KDBusService, ...)

itemmodels

kidletime



# Available frameworks (2)

kconfig (uses kcoreaddons for locking)

kauth (uses kcoreaddons for jobs)

sonnet

kde4support



# Planned frameworks

- i18n
- xmlgui
- notifications
- bookmarks
- KIO (core + widgets)
- kparts
- "KDE consistency"
- plasma

...



# Conclusion

Still much to do!

Goal:

No technical distinction between a "pure Qt" application and a KDE application.

All apps are Qt apps, possibly using some frameworks on top.

