

KDE Plasma Desktop Develop Intro



CS Slayer

FAD 2011

About Me



- Fcitx Developer
- KDE Fans: <http://www.ikde.org>

KDE 15 years





Plasma

Plasma Dev Intro

Language Support

Vocabulary

Easy Start

Tools

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KDE Examples

Q & A and Showtime



Plasma Desktop

Desktop Shell for PC





Plasma Netbook

Desktop Shell Designed for Netbook





Plasma Active

New Tablet Interface





Language Support

- QML
- Javascript
- C++
- Python
- Ruby



Language Support

Current Percentage of Language Usage:

- Python 46%
- C++ 44%
- QML 6%
- Javascript 4%

Ref: <http://blogs.kde.org/node/4469>



Vocabulary

- Widget
- Containment
- Date Engine
- Runner
- Wallpaper



Create Your First Applet

Use Desktop file metadata.desktop to describe metadata of widget.

```
[Desktop Entry]
```

```
Name=ClockWidget
```

```
Type=Service
```

```
X-KDE-PluginInfo-Author=saber
```

```
X-KDE-PluginInfo-Email=saber@none.org
```

```
X-KDE-PluginInfo-License=GPL
```

```
X-KDE-PluginInfo-Name=clockwidget
```

```
X-KDE-PluginInfo-Version=1
```

```
X-KDE-ServiceTypes=Plasma/Applet
```

```
X-Plasma-API=declarativeappletsript
```

```
X-Plasma-DefaultSize=200,100
```

```
X-Plasma-MainScript=code/clockwidget.qml
```



Use Data Engine for data visualization

What's Data Engine?

- Provide Data for Plasma Widget

Data can be obtained from hardware, network, filesystem, DBus, or whatever you want.



Data Engine

Why DataEngine?

- Share data and code
- Make data obtain process trivial
- Communicate with data source



Plasmate

- Git Integration
- Live Preview
- Online Upload
- Online Import

Test tool



- plasmoidviewer
- plasmaengineexplorer

KDE Examples



<https://projects.kde.org/projects/kde/kdeexamples/>

Q & A and Showtime



Any questions?



Thank you!