



Port Plasma Calendar and other widgets to QML



The Current Status

- All the existing plasma widgets are heavily dependent on QGraphics*
- Several plasma widgets are using the paint event to draw their content



Why QML?

- QML will play an important role in Qt5
- Using QML will allow to switch easily to QML Scene Graph
- QML makes development and maintenance easier
- QML plasma widgets much less likely crash the plasma shell



My GSOC Project in few points

I will port the **calendar widget to QML** and I will also port the following plasma widgets:

- Luna
- Fifteen Puzzle
- Calculator
- Notes
- Timer



Some observations

- Porting the code is rather straightforward
- JS might behave differently from C++ in an unexpected way (so you have to pay more attention and check every line)
- Some glue code is still missing
- C++ is still required for some tricky parts



```
failbowl:~(master!?) $ jsc
```

```
> [] + []
```

```
> [] + {}
```

```
[object Object]
```

```
> {} + []
```

```
0
```

```
> {} + {}
```

```
NaN
```

```
> █
```

<https://www.destroyallsoftware.com/talks/wat>



The Future

- All the plasma widgets will use QtQuick
- As soon as we don't have any old style plasma widget it will be possible to use QtQuick 2 on the desktop plasma shell (it still has to be implemented)
- If you don't use any Qgraphics* specific feature it will be possible to run your widget on both QtQuick 1 and 2
- If you use QML everything will be easier



Thanks for your attention

