



# Widgets Best Practices

AKA live-coding a QTableView with Designer

Shawn Rutledge

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ecloud on `#qt-labs`, `#qt-quick` etc.



# About me

- Qt user since ~2004
- The Qt Company - Oslo since 2011
- Pointing devices: touch, Wacom tablets
- Qt Quick Input Handlers
- Linux/X11 and macOS
- QtPDF
- Qt Quick Controls and Dialogs

# Agenda

- Review of relevant API and collaboration
- qps
- Live-coding a process viewer

# How QTableView accesses the model

PID	USER	PRI	NICE	VSZ	RSS	%CPU
1	root	20	0	219 MiB	6 MiB	0.00
2	root	20	0	0 bytes	0 bytes	0.00
4	root	0	-20	0 bytes	0 bytes	0.00
6	root	0	-20	0 bytes	0 bytes	0.00
7	root	20	0	0 bytes	0 bytes	0.13
8	root	-2	0	0 bytes	0 bytes	0.00
9	root	-2	0	0 bytes	0 bytes	0.00
10	root	-2	0	0 bytes	0 bytes	0.00
11	root	-2	0	0 bytes	0 bytes	0.00
12	root	-2	0	0 bytes	0 bytes	0.00

**QTableView**

`data(QModelIndex(5, 9), DisplayRole)`

`data(QModelIndex(rss, 9), DisplayRole)`

**SortFilterProcessModel :**  
**QSortFilterProxyModel subclass**

**ProcessModel :**  
**QAbstractTableModel subclass**

# qps

- Qt 'top' / process explorer application (started ~1997)
- part of LXQt desktop now <https://github.com/lxqt/qps>
- my fork for this presentation: <https://github.com/ec1oud/qps/tree/widgets-rewrite>

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This presentation:

`https://github.com/ecloud/qt-presentations/tree/widgets-QtWS2018`

The code:

`https://github.com/ecloud/qps/tree/widgets-rewrite`





# Networking and Drinks

in the expo area

# Welcome!