

Accessibility for Qt and KDE



1.7.2012 - Akademy
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Accessibility for Qt and KDE



↑
Orca!



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About me

Frederik Gladhorn
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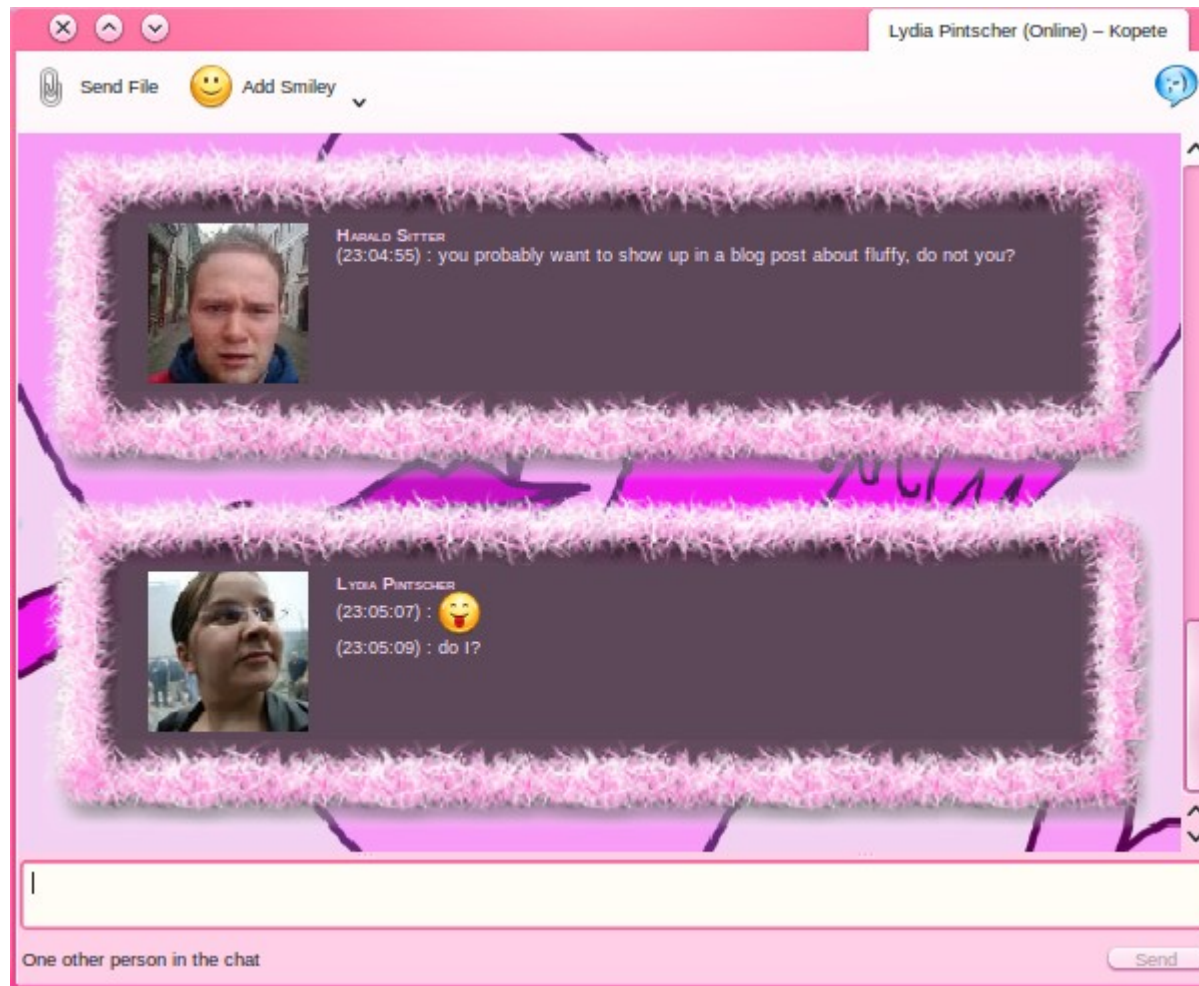
KDE

(Parley, ghns, accessibility)

Qt

(accessibility, touch handling)

About me



Outline

why-what accessibility

the easy stuff (do it!)

assistive technology and apis

qt-at-spi

libkdeaccessibilityclient

conclusion





Accessibility

degree to which a product, device, service, or environment is available to as many people as possible

Why?

Rules

Laws

Requirements

...

because we can

because we care



enable people

inform

participate

KDE Accessibility

Font and color settings

KMouseTool

Magnification KMag (KWin)

Simon

Screen readers and APIs

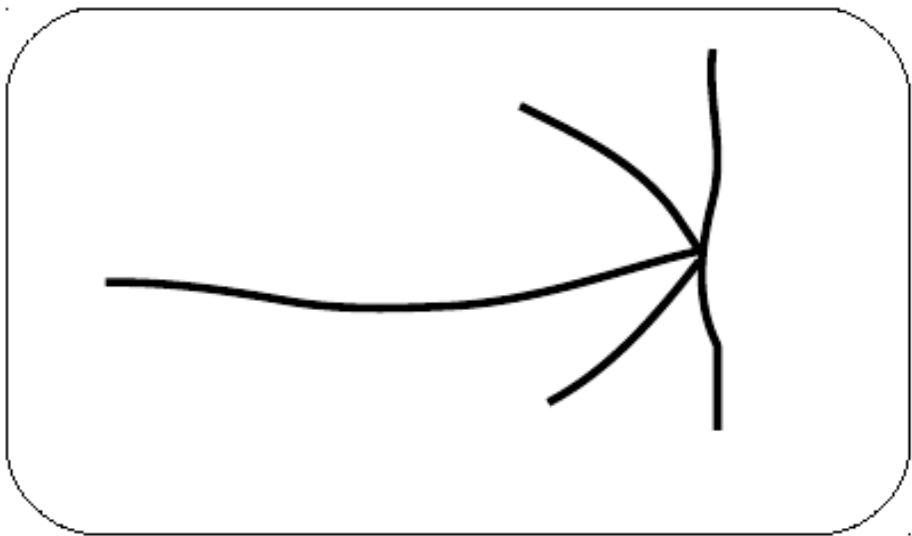
YOUR app

Colors

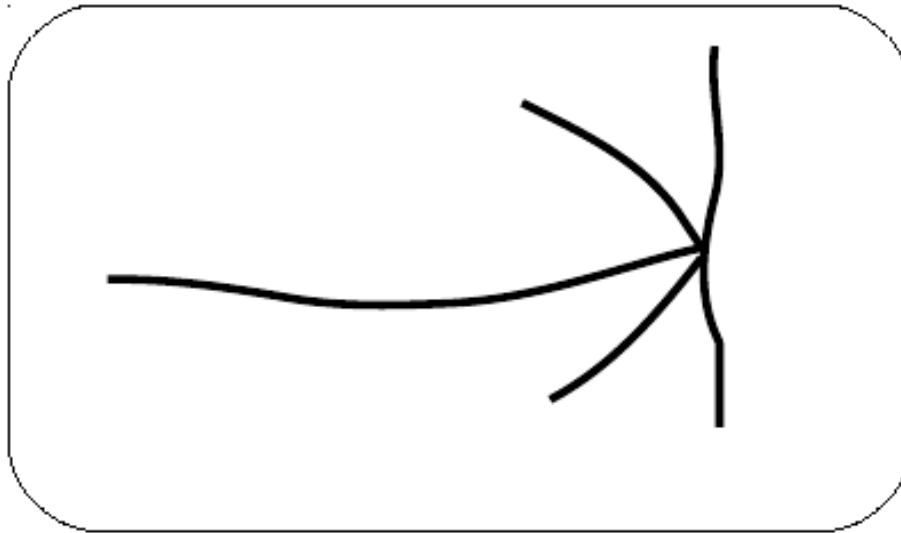
Fonts

Keyboard navigation

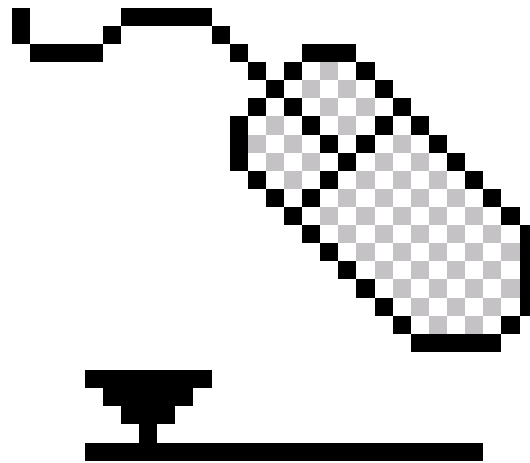
→ hig guidelines



Keyboard navigation!



KMouseTool



Magnification

KMag updates

LibKdeAccessibilityClient

Simon



Assistive Technology

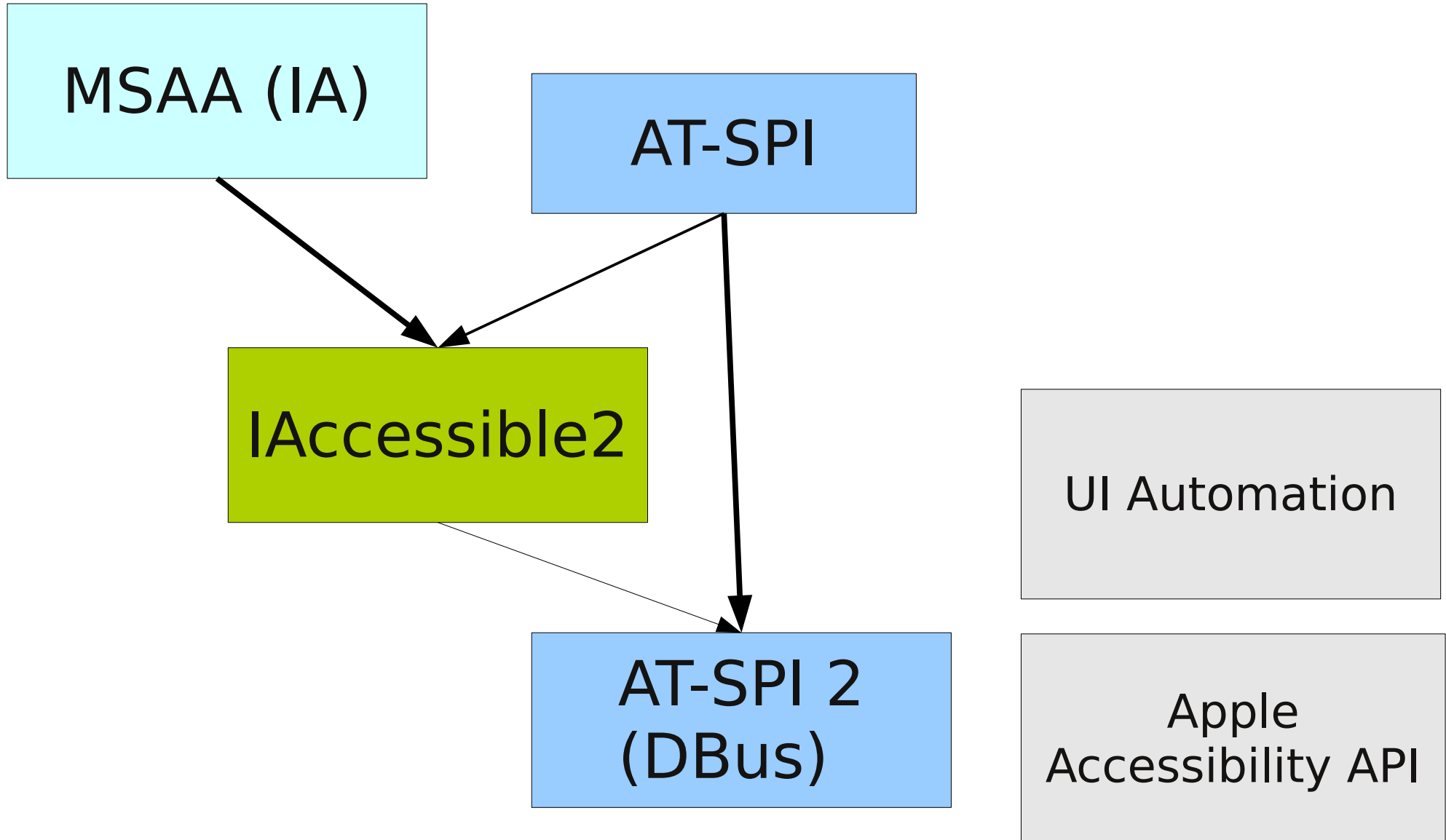
Virtual Keyboards

Screen Reader

Braille

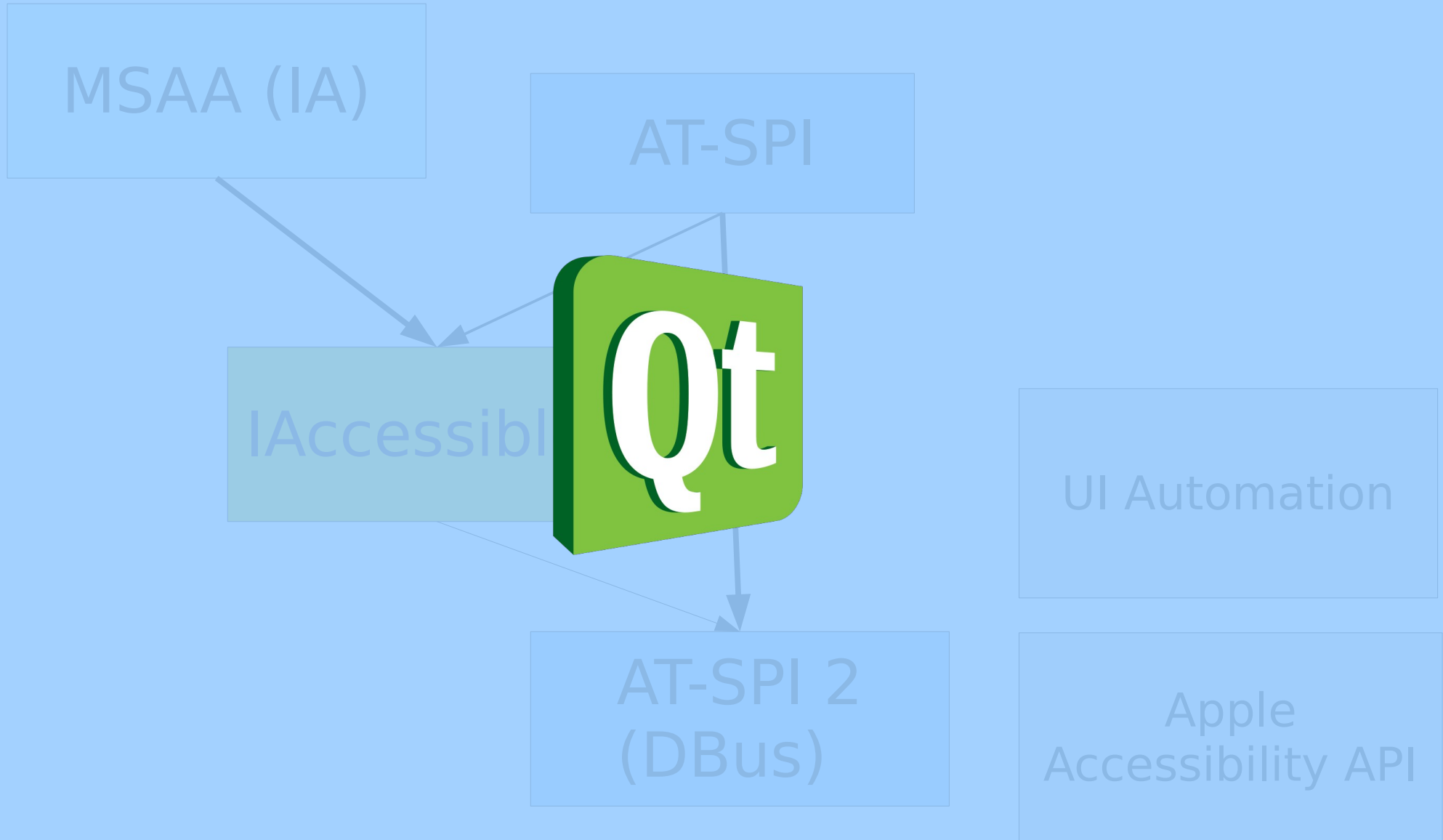


Accessibility APIs





Accessibility APIs



Why now?

How to get it running?

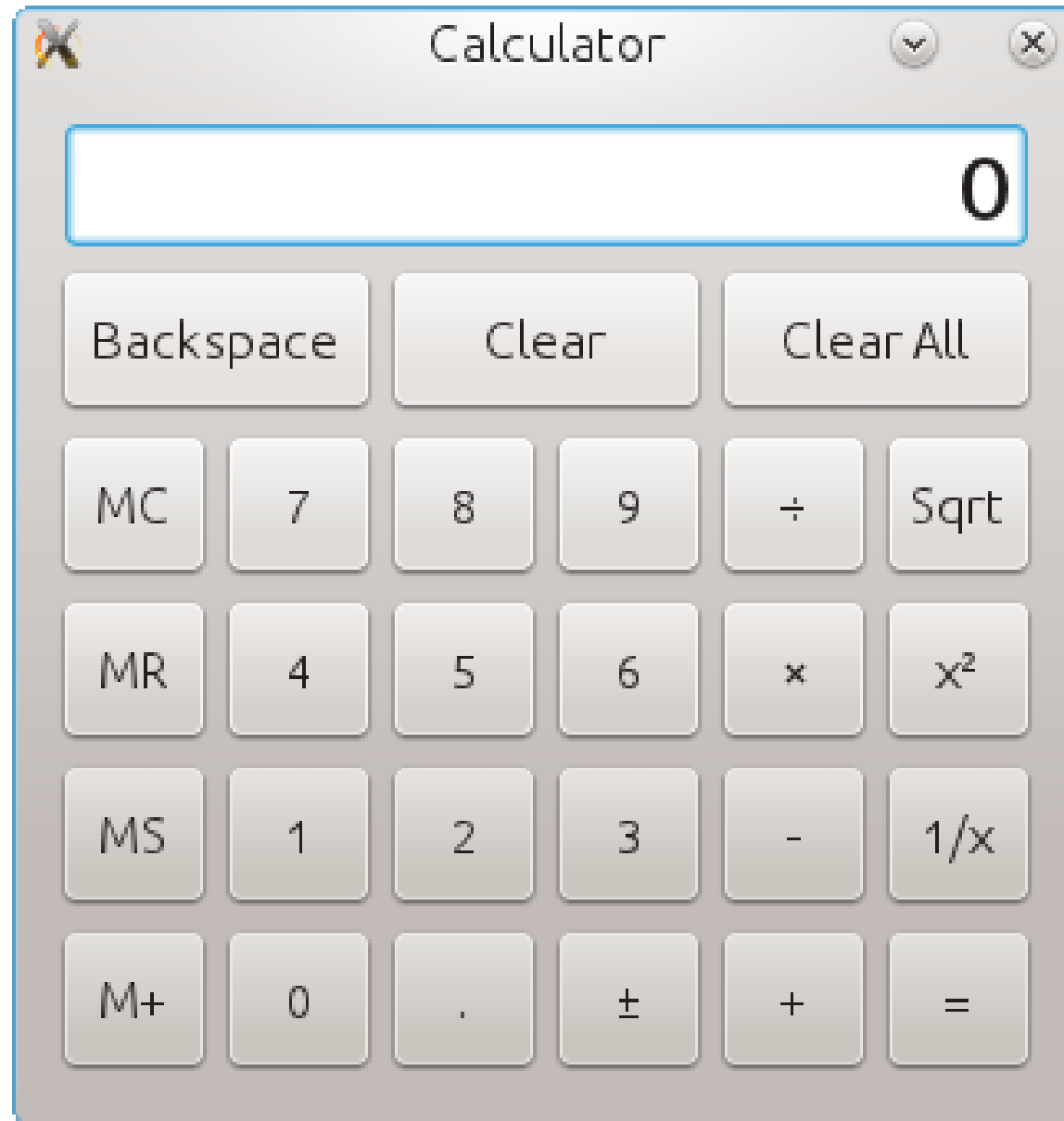
qt-at-spi

Available in most distributions now

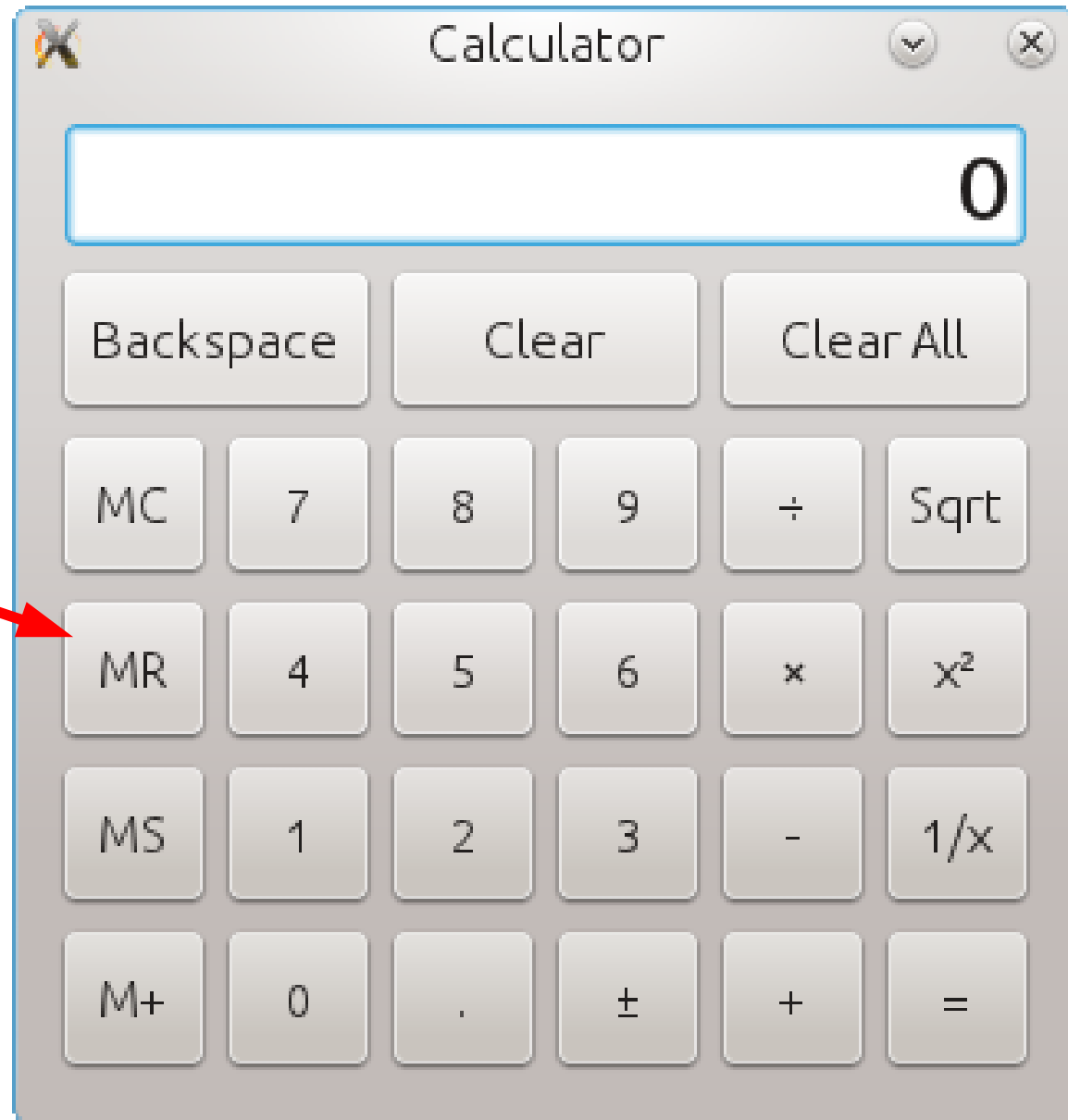
Qt 4: projects.kde.org/qtatspi

Qt 5: pending review to be integrated
in QtBase

Getting our hands dirty



Now do the **keyboard** thing again



Let's fix it!

We did it

designer
code

code

widget->

```
setAccessibleName(i18n("next"));
```

Do this at home

Have AT-SPI-2 running
(bug your distro if not)

Grab Qt 4.8

Get qt-at-spi

`projects.kde.org/qtatspi`

QAccessiblePlugin

(for your custom widgets)

LibKdeAccessibilityClient

(yes, for clients, like the name says!?!)

KAccessible/Orca/KAccessible2
(better name anyone?)

Challenges

Plasma

Qt Quick 2

Qt WebKit

Virtual keyboard

Input methods and touch

Qt Quick 2

```
66         verticalScrollBar.value = verticalScrollBar.maximum
67     }
68
69     Accessible.role: Accessible.EditableText
70     Accessible.name: text
71
72     TextEdit {
73         MouseArea {
```

Feedback and help appreciated

Go ahead, test with Orca



Check your app!

Colors, fonts

Keyboard navigation

Run with screen reader

Questions?

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