

Building Bridges



Making Qt and KDE Accessible

About me

Frederik Gladhorn

Qt (Nokia)

KDE



Accessibility

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

KDE Accessibility

magnifier
font and color settings
Jovie
Simon

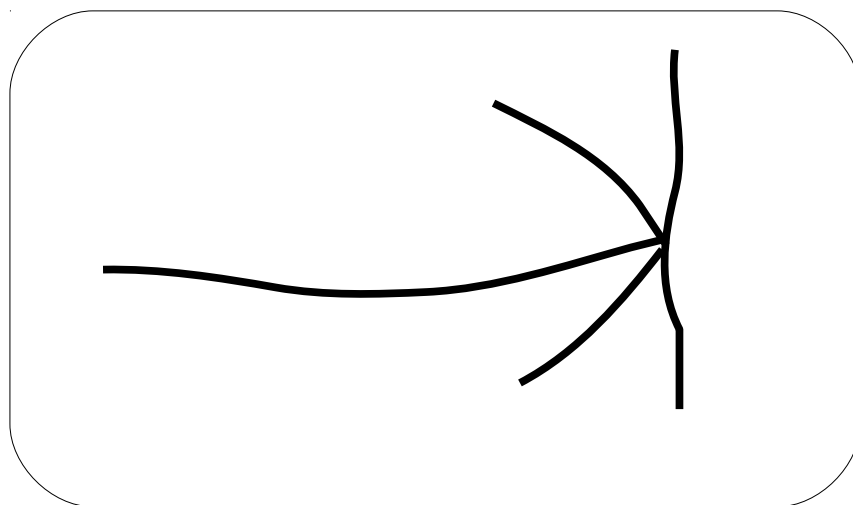
You and your app

colors

fonts

keyboard navigation

Keyboard Navigation



Assistive Technology

Screen Reader

Braille



KAccessible

a built in screen reader

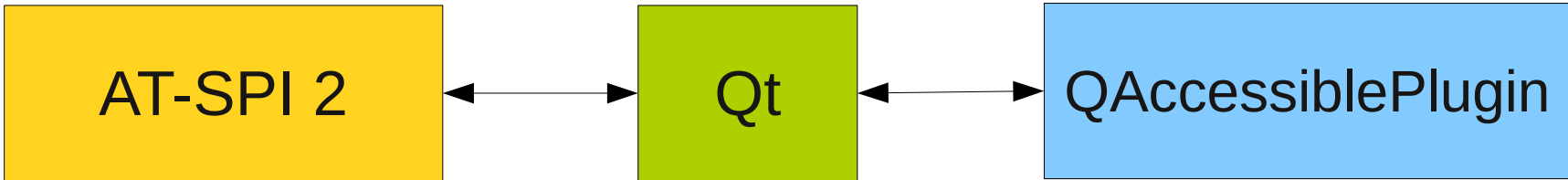
Qt and AT-SPI

February: start... hack hack hack

1 Sprint

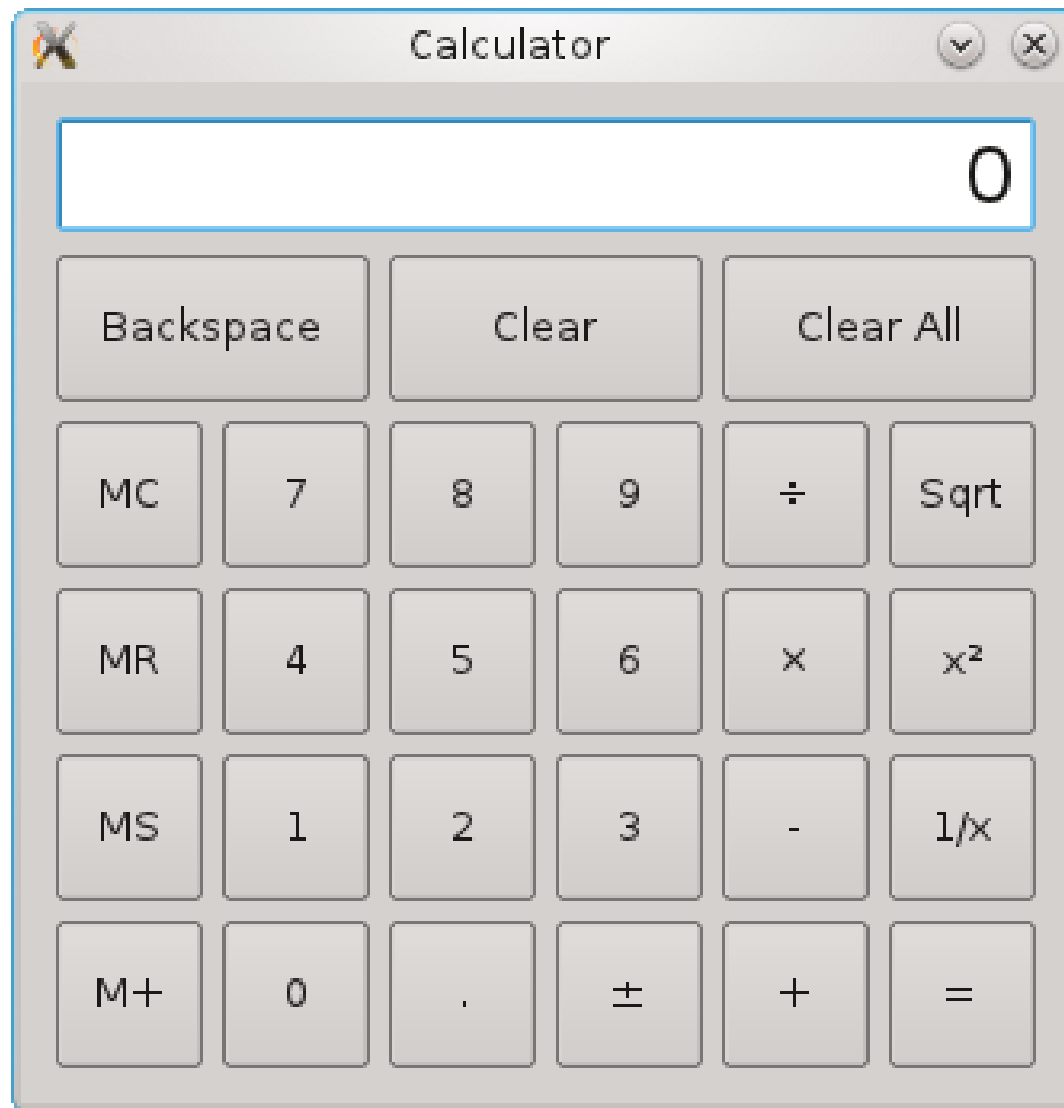
Now: almost
(really soon now) release

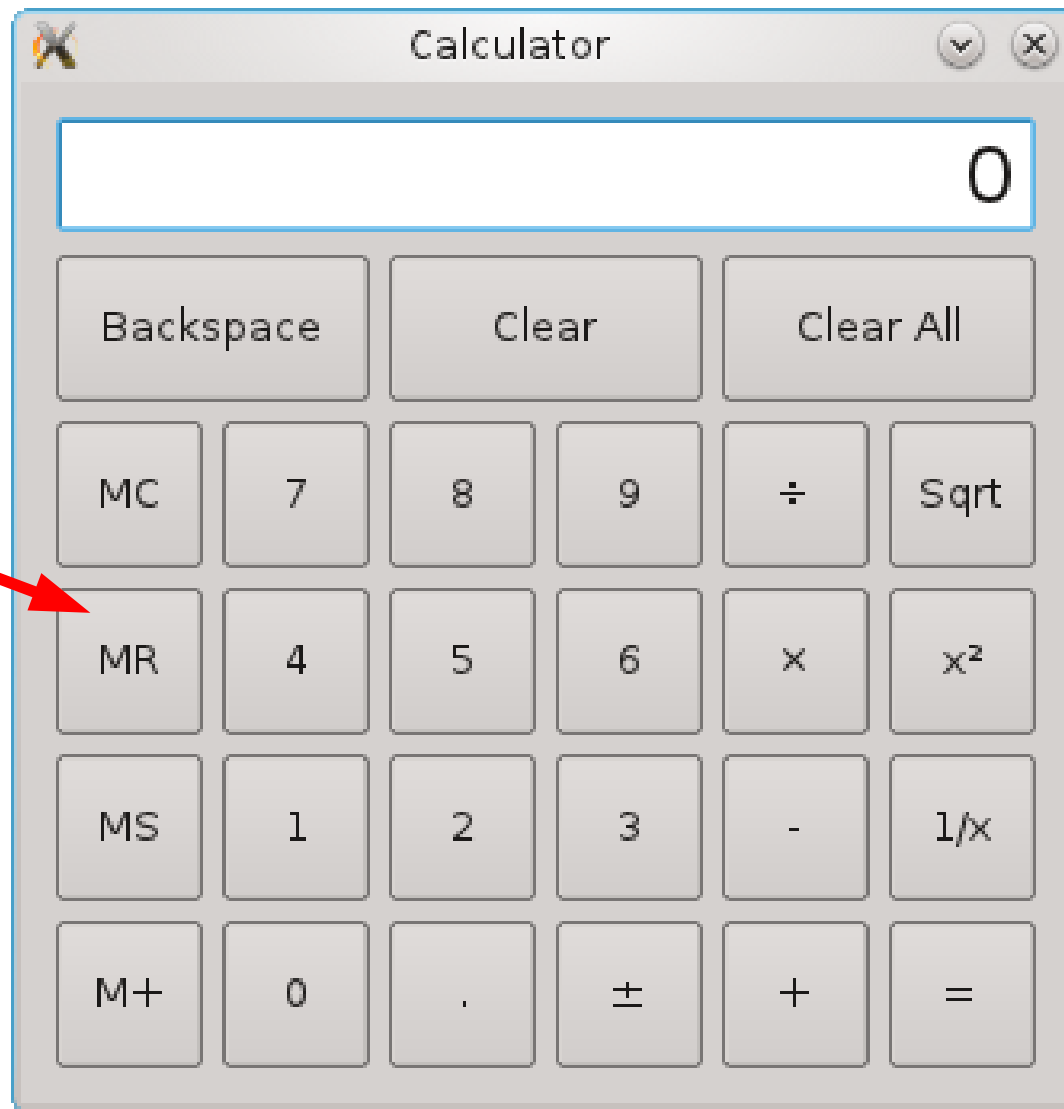




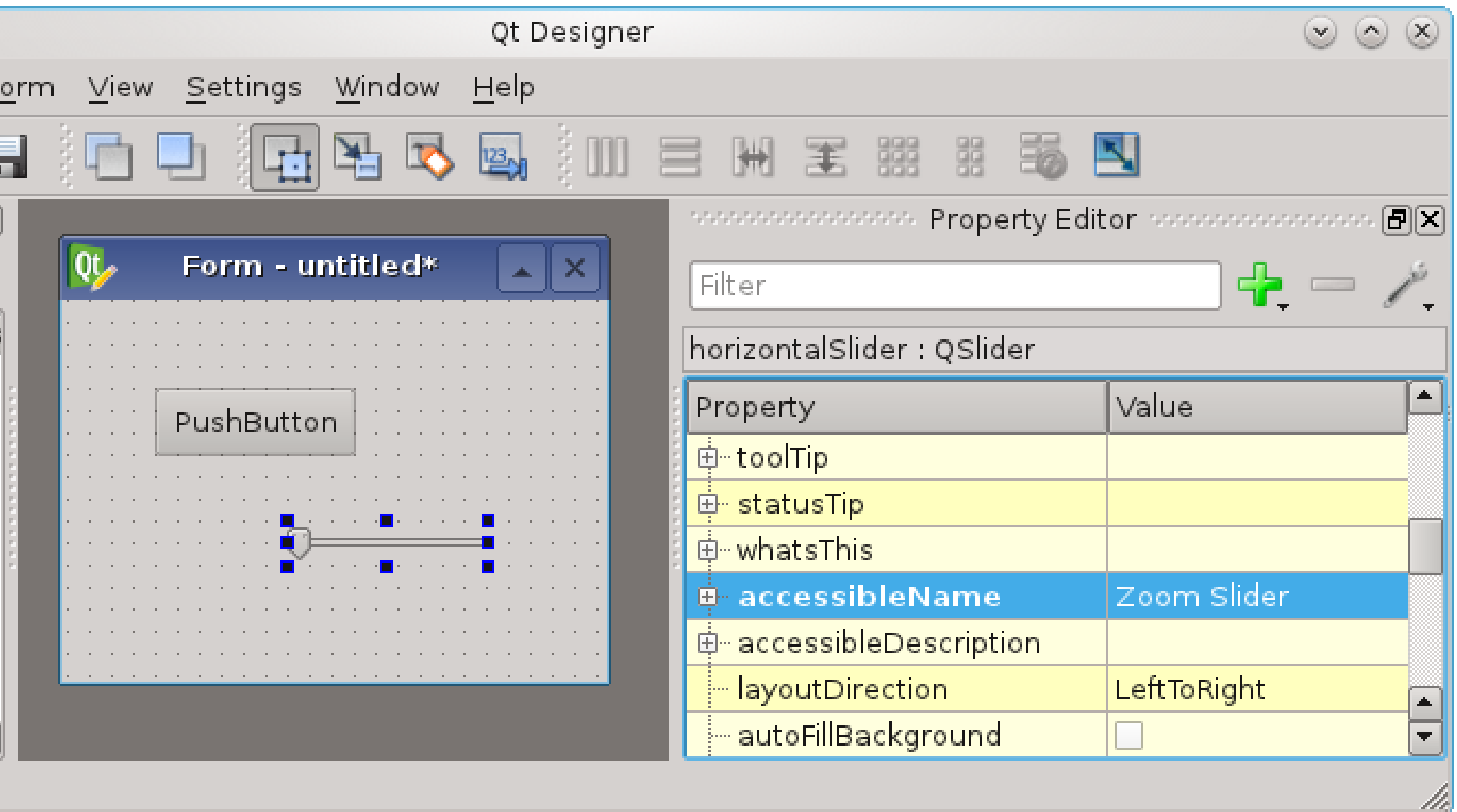


now do the **keyboard** thing again





Setting Accessible Properties



The image shows the Qt Designer interface. On the left, a window titled "Form - untitled*" contains a Qt widget form with a grid background. A "QPushButton" is placed in the upper left, and a "horizontalSlider" is placed below it. On the right, the "Property Editor" for the "horizontalSlider : QSlider" is open. It features a "Filter" input field and a list of properties. The "accessibleName" property is highlighted in blue and set to "Zoom Slider". Other visible properties include "accessibleDescription", "layoutDirection" (set to "LeftToRight"), and "autoFillBackground".

Property	Value
+ tooltip	
+ statusTip	
+ whatsThis	
+ accessibleName	Zoom Slider
+ accessibleDescription	
layoutDirection	LeftToRight
autoFillBackground	<input type="checkbox"/>

Accessible Properties

- Name: Short, when the widget doesn't provide it by default or the label is misleading when spoken
- Description: More elaborate explanation

QWidget

QAccessiblePlugin

QAccessibleInterface

Qt Quick (QML)

Accessible.role: Accessible.Button

No plugin needed

Qt Quick (QML)

Accessible.role : Accessible.Button

No plugin needed

Do this at home kids

Have AT-SPI-2 running

Grab Qt 4.8

Get the QAccessibleBridge

`gitorious.org/qt-at-spi`

Conclusion:

check your app!

colors, fonts

keyboard navigation

run with screen reader

Challenges

Input methods – touch

Screen Reader integration

QML/Qt Quick

Meet and talk

Simon, Accessibility in general,
Gnome, KDE, everyone.

Today 16:05

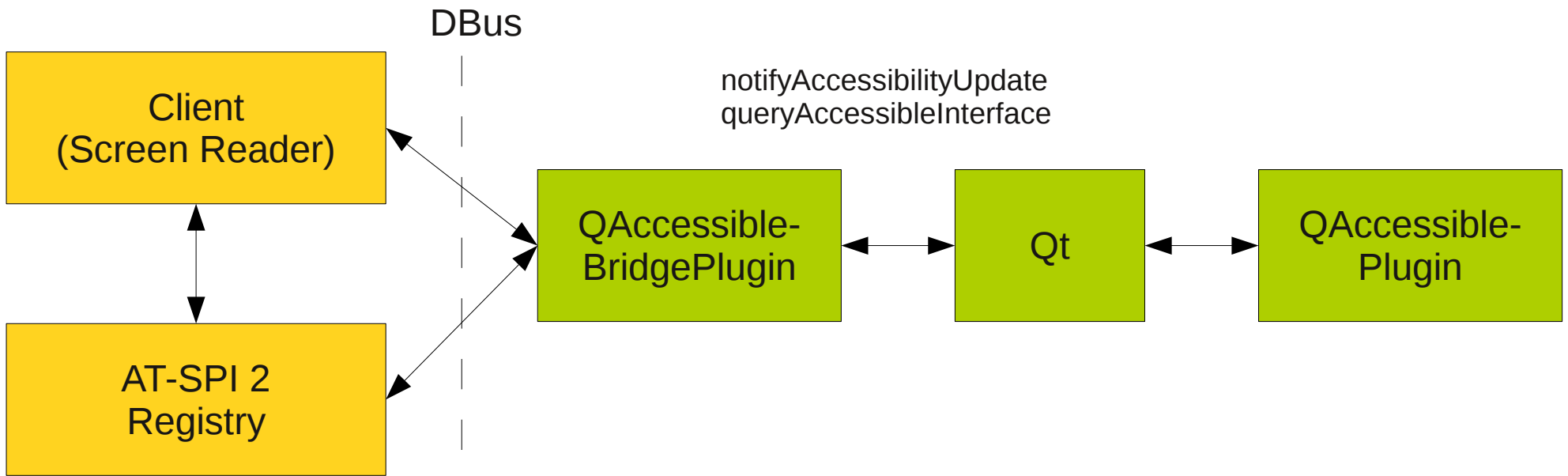
find us in front of Audimax

Accessibility BoF
Wednesday 10:00
room 1.404/1

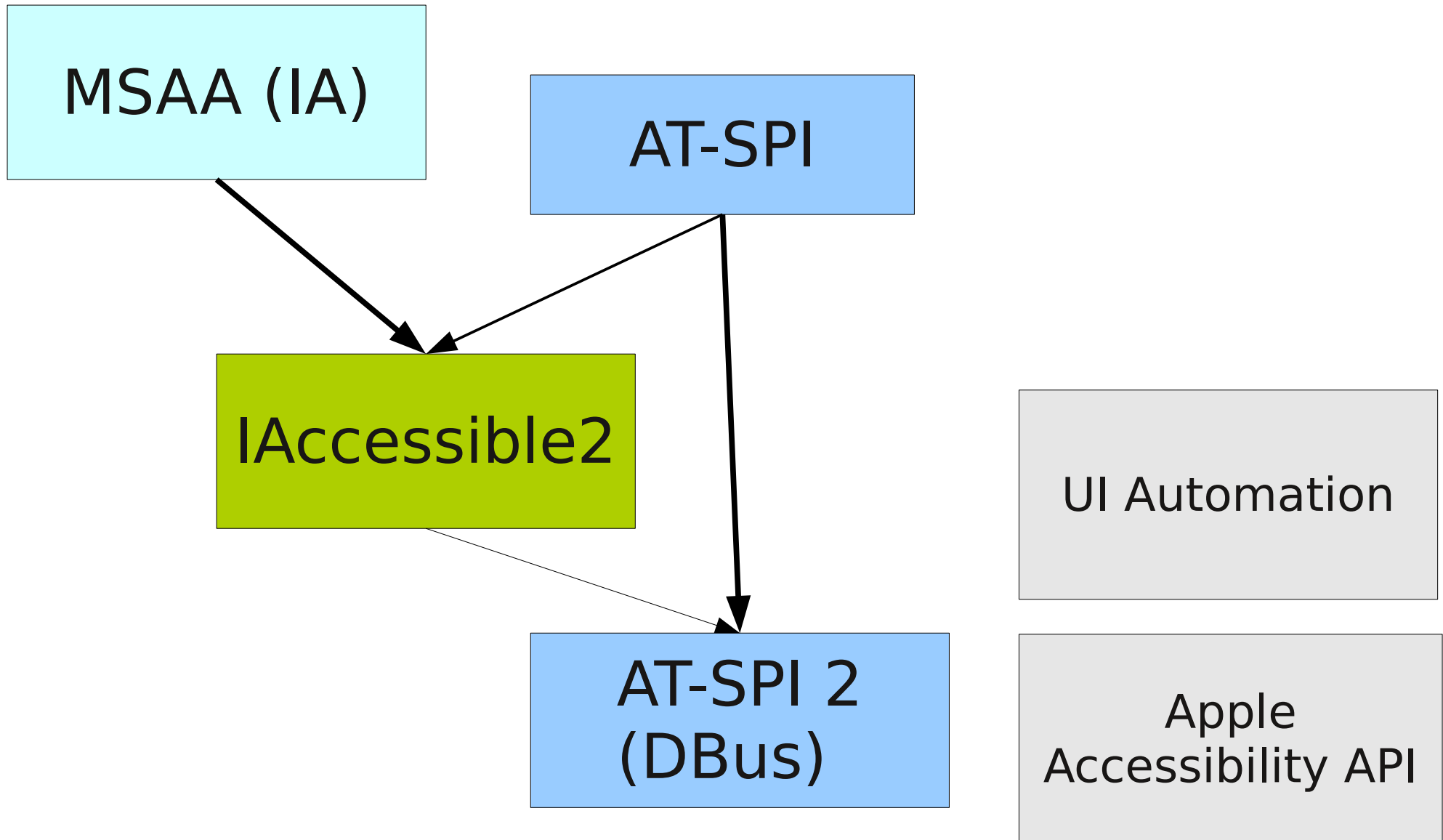
A photograph of the Golden Gate Bridge in San Francisco, California, viewed from a low angle. The bridge's iconic red-orange towers and suspension cables are prominent against a clear blue sky. The bridge spans across a body of water, with hills visible in the background. The word "Questions?" is overlaid in large, bold, black text across the center of the image.

Questions?

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Accessibility APIs



QDBusVirtualObject
Efficient structure now
memory efficient

overhead almost 0