1 CONTROL
TO RULE THEM ALL

MULTI DEVICE BUSINESS CONTROLS

RESEARCH PROJECT

University of Applied Sciences and Arts
Northwestern Switzerland

ABOUTME.

Gerrit Grunwald | Engineer

Trying to do 39 slides in 15 min

PLATFORMS

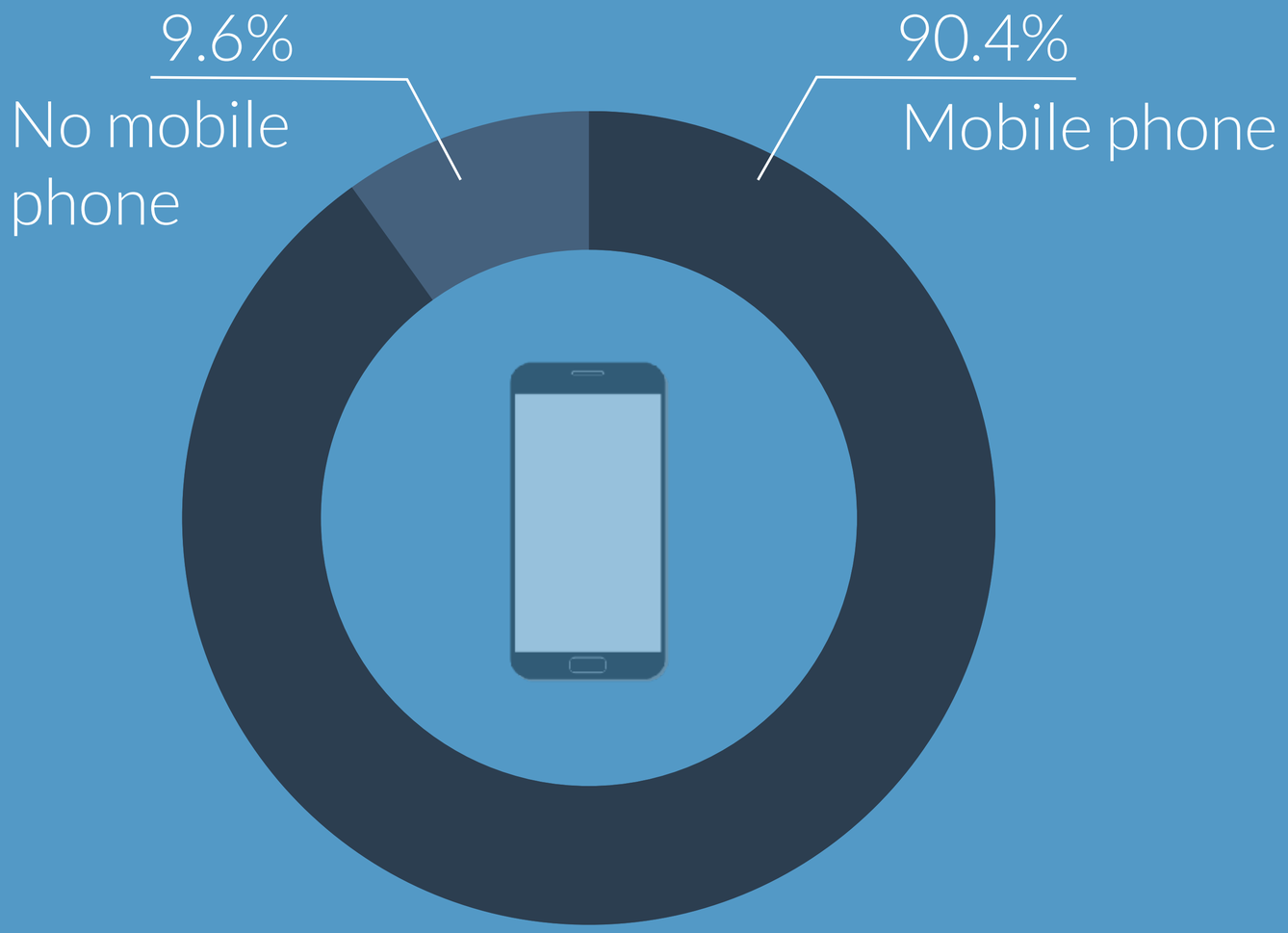
DESKTOP

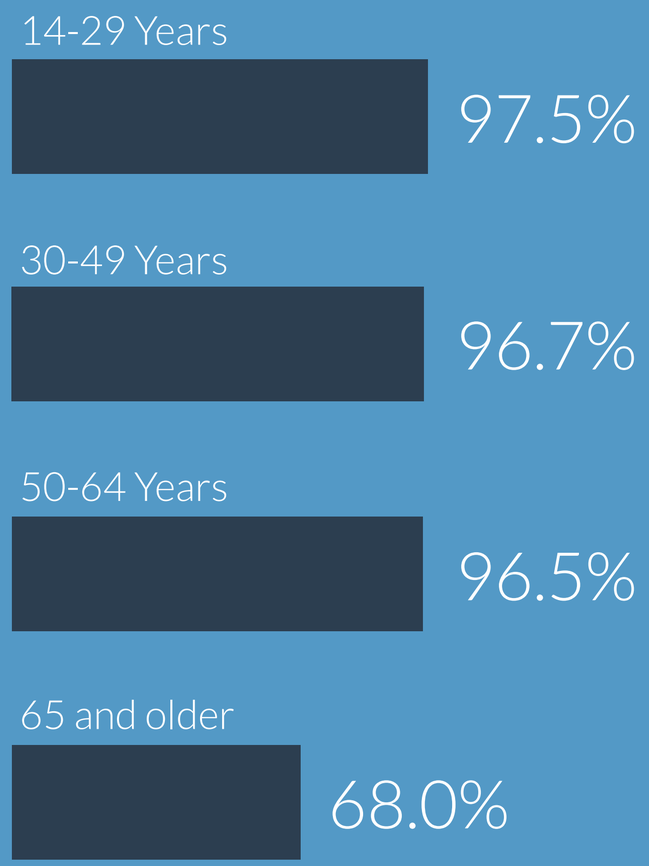
MOBILE

PHONE

DISTRIBUTION

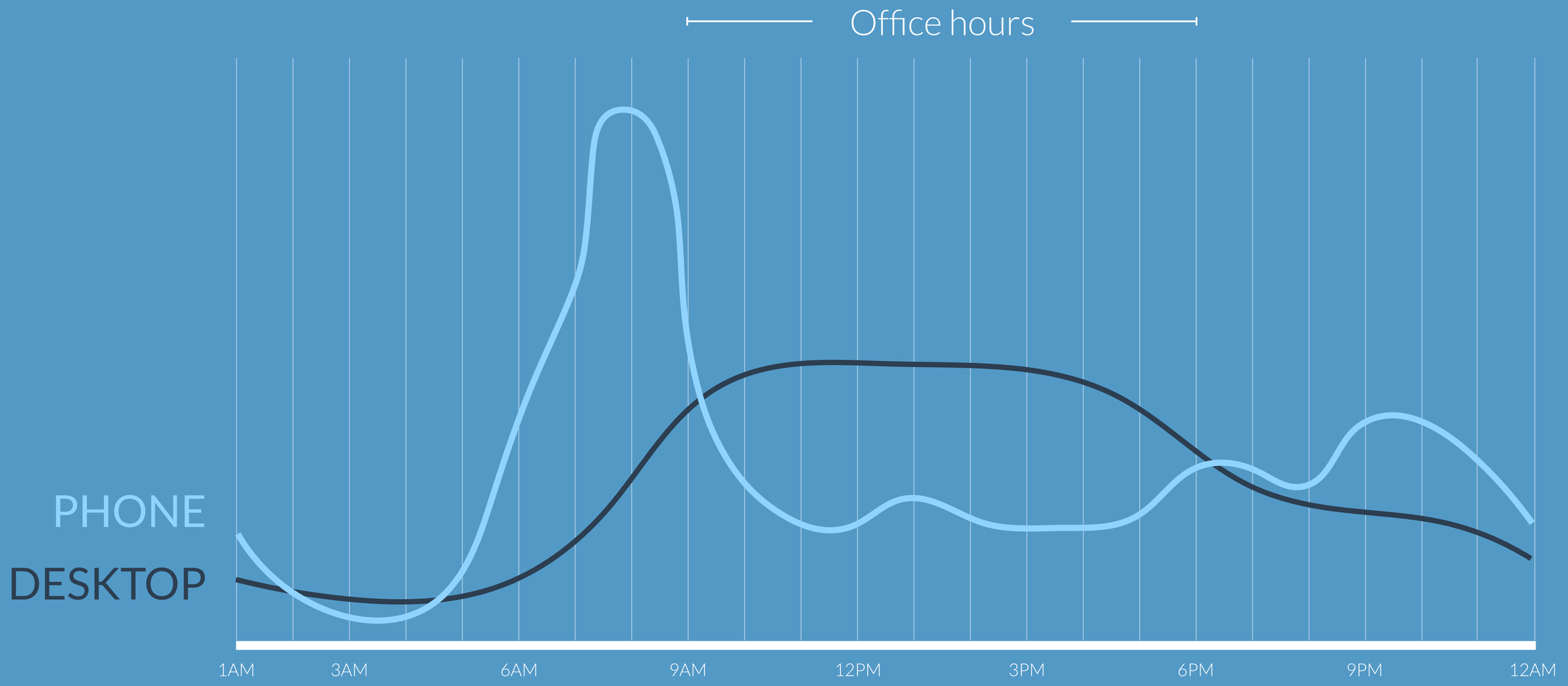
PHONE DISTRIBUTION (GERMANY)



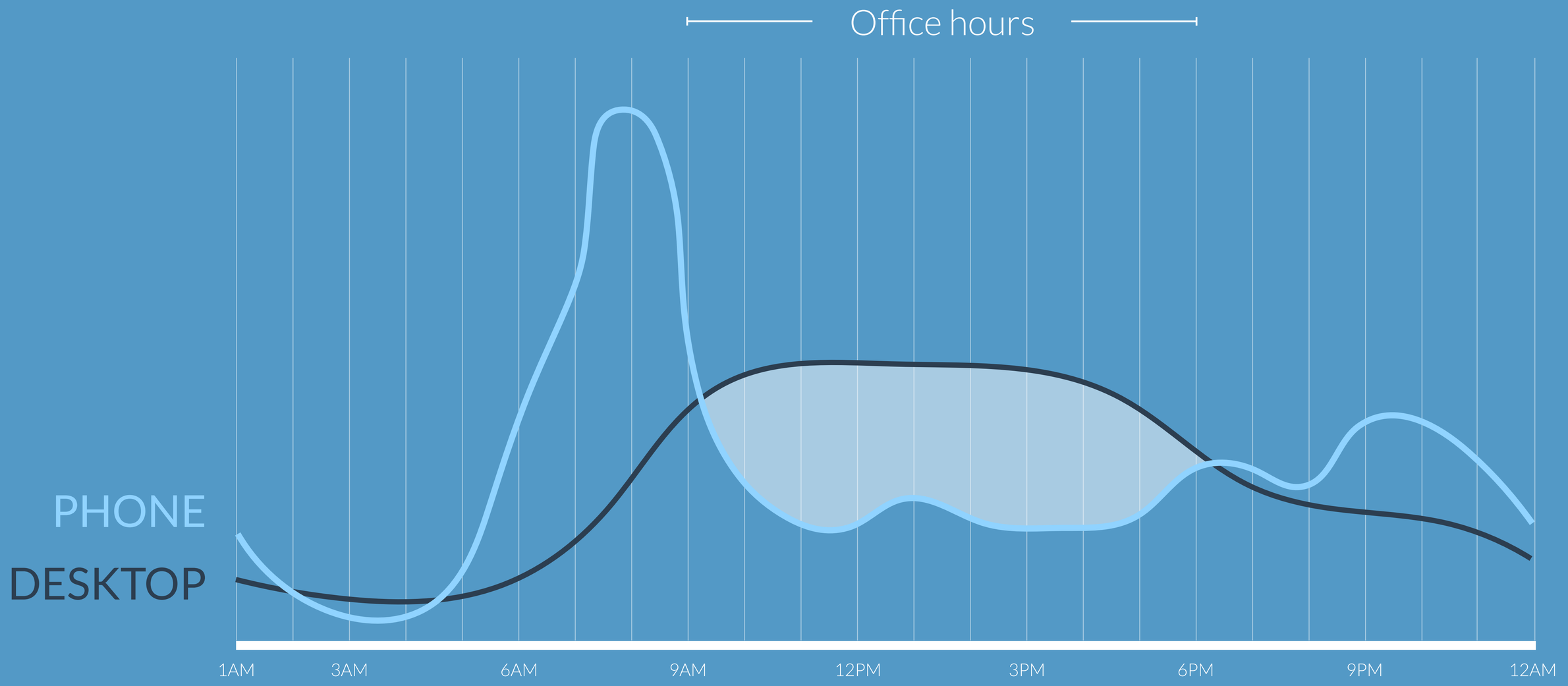


24H USAGE

24H USAGE


Office hours
PHONE
DESKTOP
1AM
3AM
6AM
9AM
12PM
3PM
6PM
9PM
12AM

24H USAGE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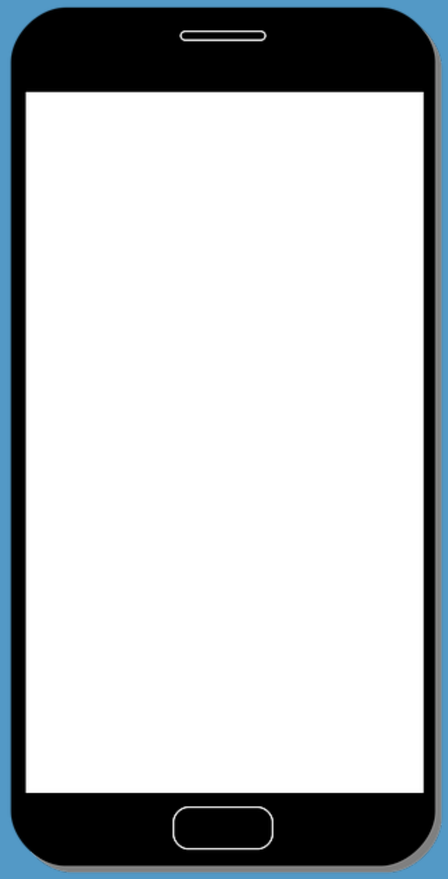
COMBINE ENVIRONMENTS

COMBINE ENVIRONMENTS

+



SOMETHING SIMILAR

APPLE TOUCHBAR

MULTIDEVICE CONTROL

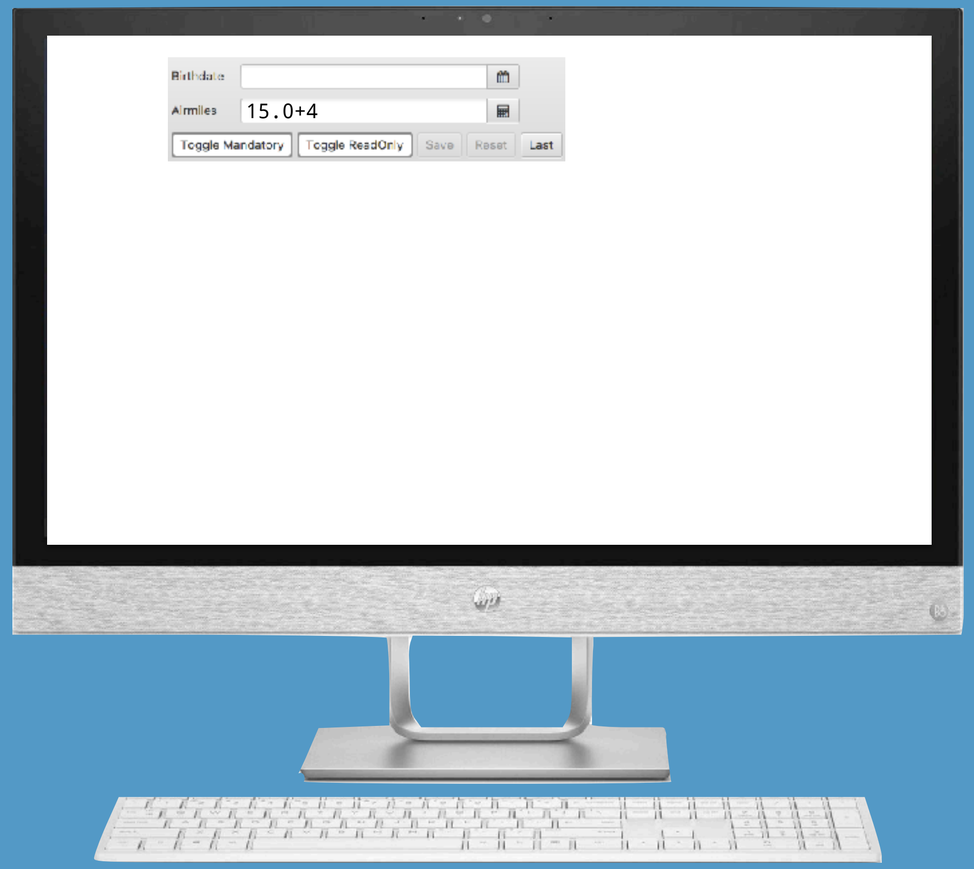
MULTIDEVICE CONTROL

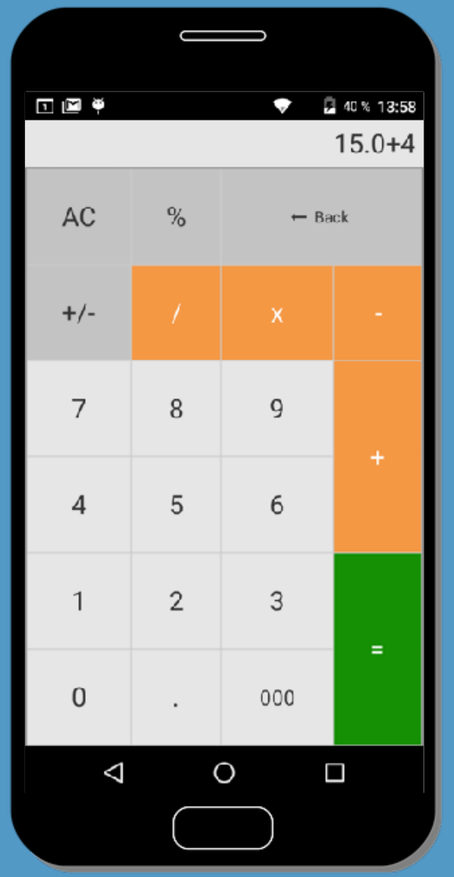
- Controllable by Keyboard (Power User)
- Controllable by Mouse (Standard User)
- Runs on Desktop and Mobile
- Makes use of Mobile features e.g. Touch
- Comes with different visualizations dependent on the platform

DIFFERENT ENVIRONMENT...

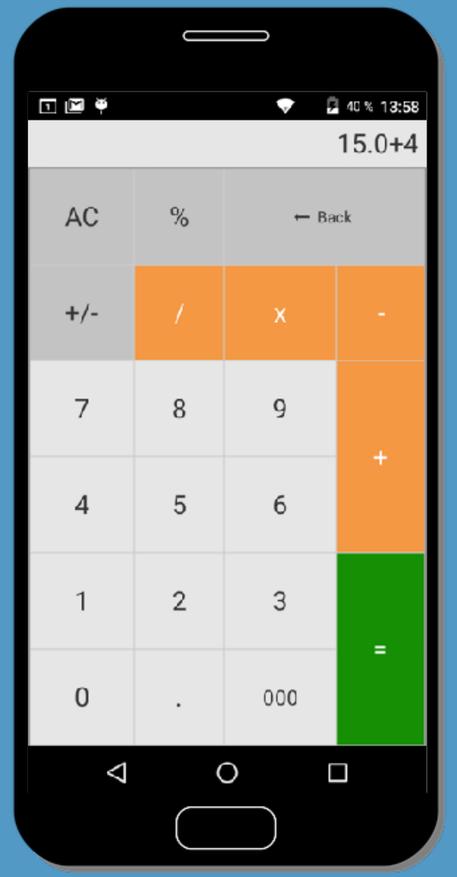
...SAME CONTROL

SAME CONTROL





SAME CONTROL



TECHNOLOGY

TECHNOLOGY

- GLUON Mobile (current implementation)
- HTML5
- …

GLUON MOBILE

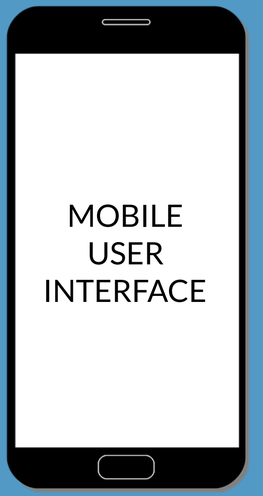
GLUON MOBILE

- Single App
- Multiple Platforms
- Java end to end
- Access "abstracted" hardware by API
- Creates native apps for iOS and Android

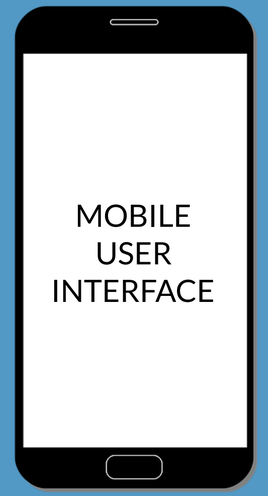
HOW TO ?

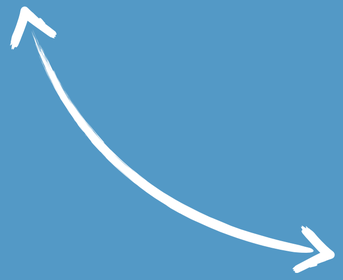
HOW TO ?

SYNCHRONIZE
VIA
SERVER

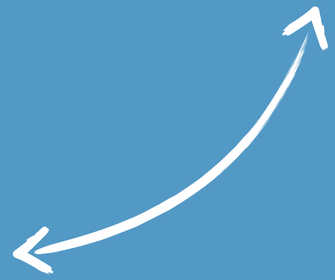


HOW TO ?

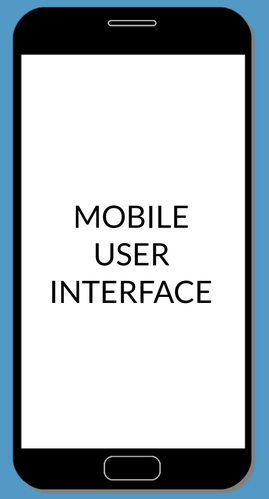




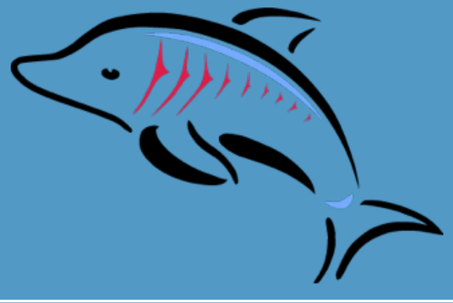
OPEN DOLPHIN



HOW TO ?



Presentation Model



Presentation Model

EventBus

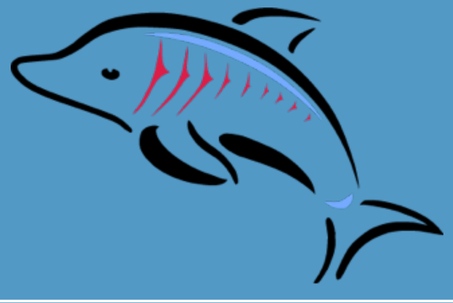
Presentation Model sync Presentation Model

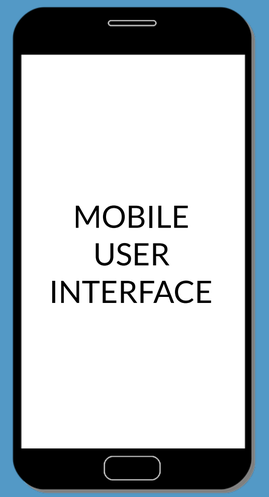
OPEN DOLPHIN

HOW TO ?

Binding

Presentation Model





Binding

Presentation Model

EventBus

Presentation Model

sync

Presentation Model

OPEN DOLPHIN

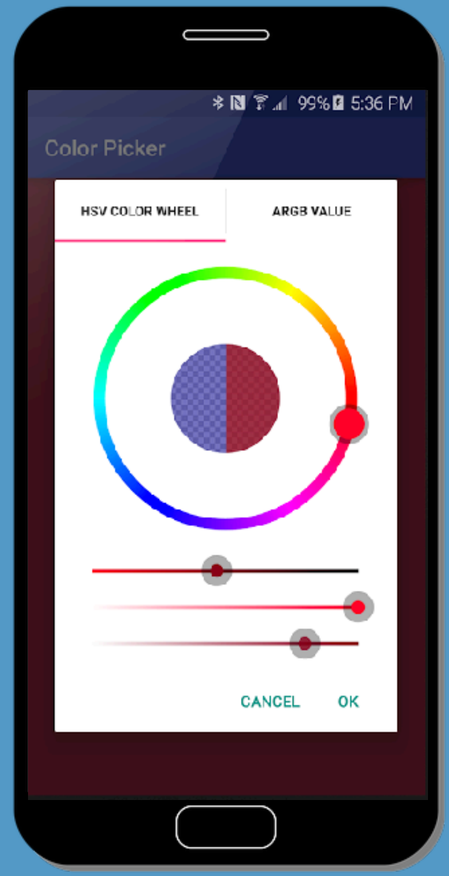
DEMO

NumberField

canoo

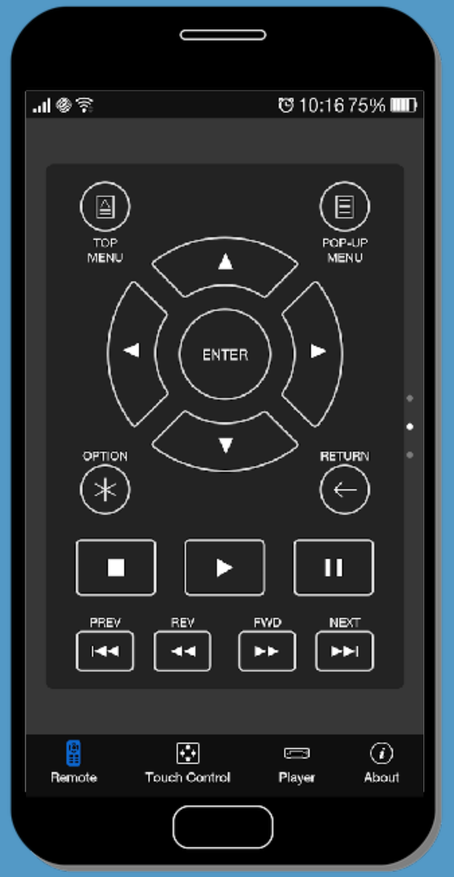
FUTURE IDEAS

FUTURE IDEAS



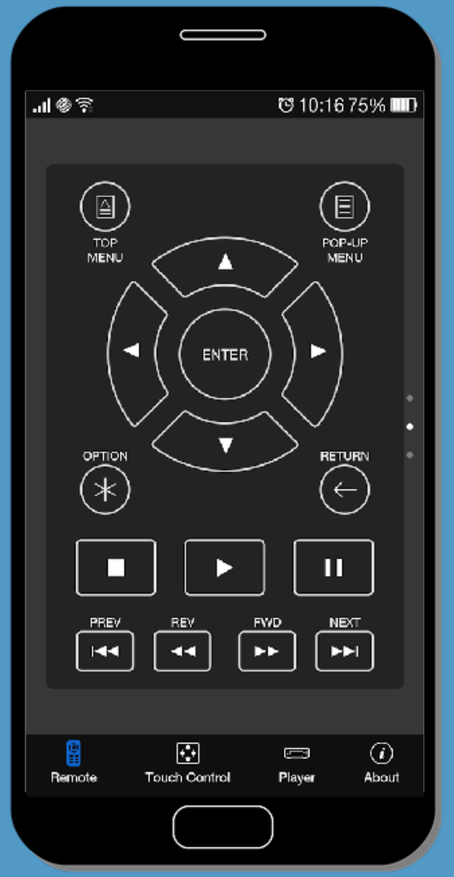
Graphics Application Color Picker

FUTURE IDEAS



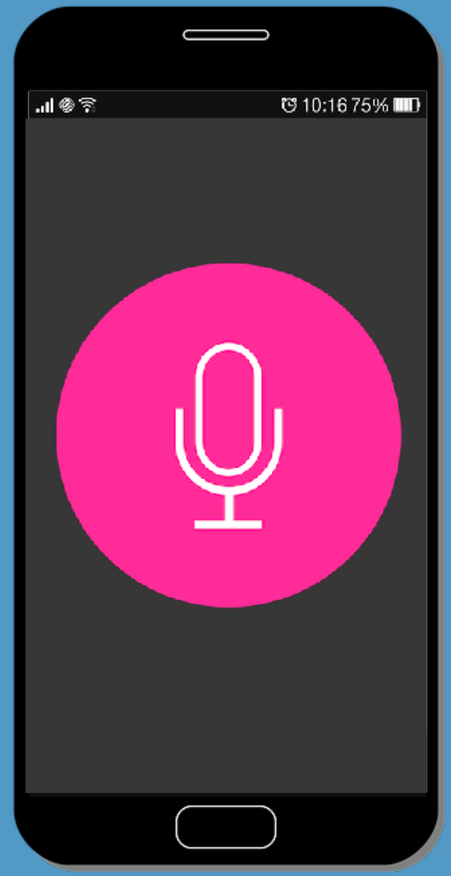
MediaPlayer Remote Control

FUTURE IDEAS



Presentation Application Remote Control

FUTURE IDEAS



Voice controlled text fields

FUTURE IDEAS

- HTML 5 implementation (e.g. Cordova)
- Switch from long polling to MQTT

THX...