



삼성 오픈소스 컨퍼런스
SAMSUNG OPEN SOURCE CONFERENCE

OPEN YOUR UNIVERSE WITH SOSCON

Tizen Applications

—

SAMSUNG ELECTRONICS

YOUNGJOO PARK (Ph.D.)

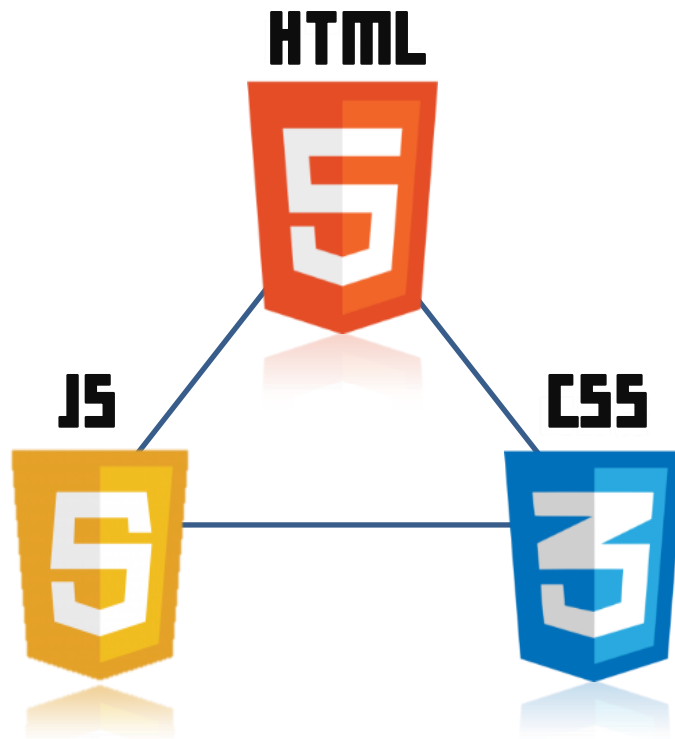
2015.10.27



The OS of Everything

Tizen is the open-source operating system
for all device areas.



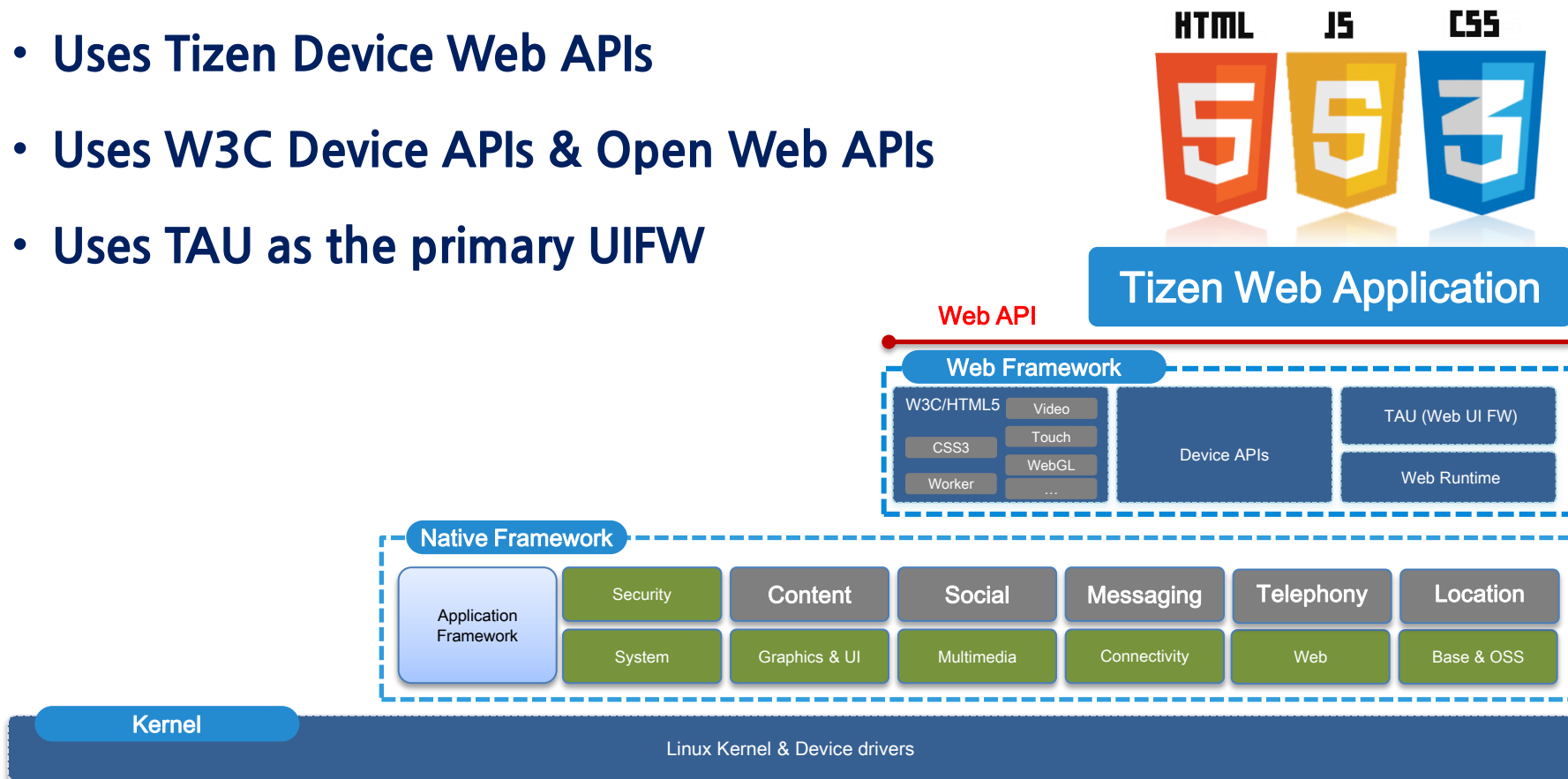


Tizen Web Application

C — EFL

Tizen Native Application

- Written in HTML/Javascript/CSS
- Uses Tizen Device Web APIs
- Uses W3C Device APIs & Open Web APIs
- Uses TAU as the primary UIFW



Development Efficiency

Apps with excellent performance can be developed at a low cost in a short period of time



Many Open Source

Developers can easily use a lot of open Web APIs and library.

OPEN SOURCE

High Portability

Developers can easily reuse the codes for Android, iOS, as well as any other OS systems

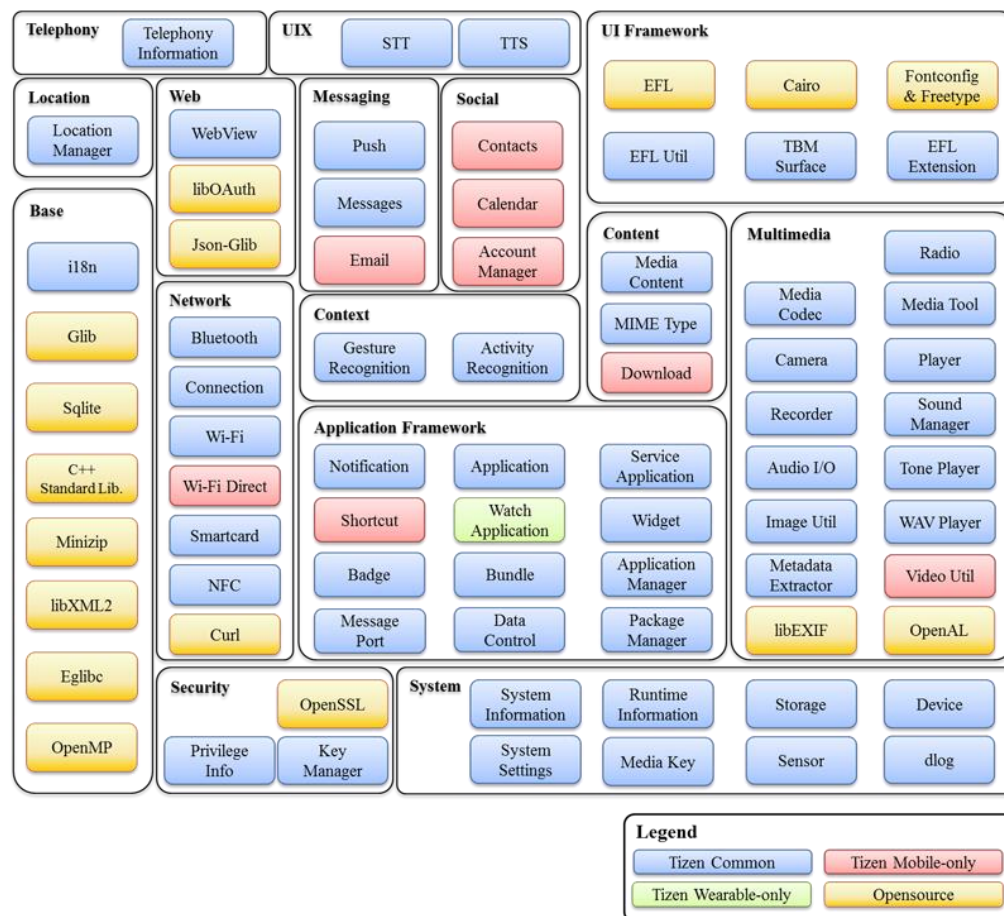


Multi-Profile

Supports Wearable, Mobile, TV and Desktop profiles



- Written in C/C++
- Uses open source APIs & Tizen Native APIs
- Uses EFL as the primary UIFW and runs with app lifecycle
- Uses profile-specific features



High Performance

- Fast App Launching, Operation & UI Rendering
- Faster than Android

Small Memory

- Lightweight Libraries & Applications
- Lighter than Android

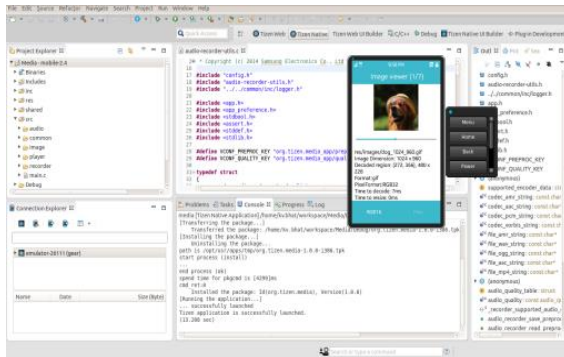
Save Battery

- Less Battery Demanding & Extended Battery Life
- Suitable for the services that are always on
(e.g., Watch face in the wearable profile)

NATIVE!

- Various Devices & Rich Controls

Eclipse based IDE



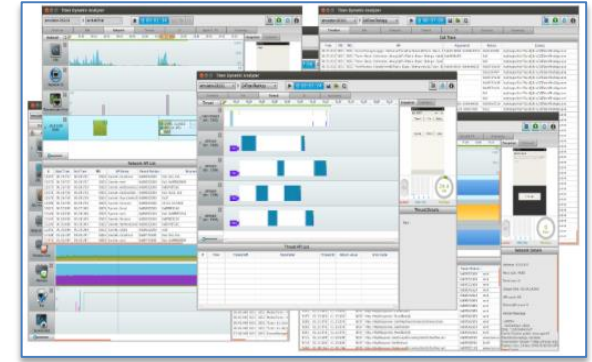
- Competitive Editor
- Project management
- Documentation, Sample

Emulator



- Emulator & Simulator
- Event Injector
- Multi Resolution support

Tools



- Code Analysis Tools
- Profiling Tools
- Web inspector



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Wearable App Development



2.3.1 SDK



Gear S2

1.18 Inches
360x360px(305pi)
Circular screen



Gear S

2.0 Inches
360x480px(300pi)
Rectangular screen
(curved)



Gear/Gear 2

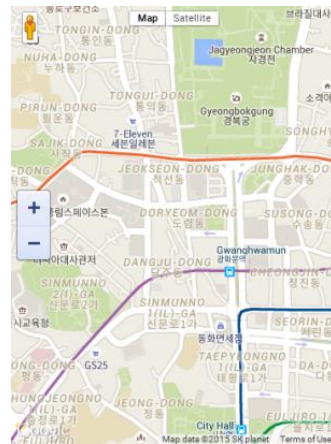
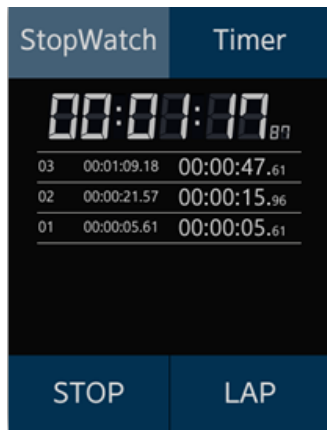
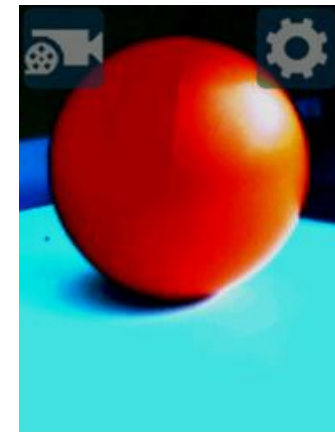
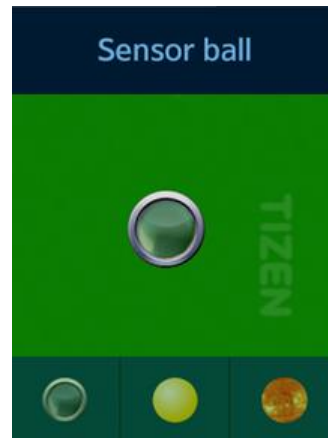
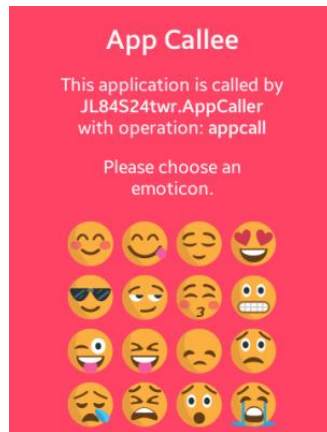
1.63 Inches
320x320px(278pi)
Square screen





- 4 Hours / 1 Engineer
- Layouting
- Manages Hour, Minute and Second Hands
- Manages Day and Night Components
- Manages Day of Week
- Changes Theme between Dark and Light
- Supports Ambient mode
- Good Performance
- Optimized Memory

Wearable Sample Application





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Mobile App Development



2.4 SDK

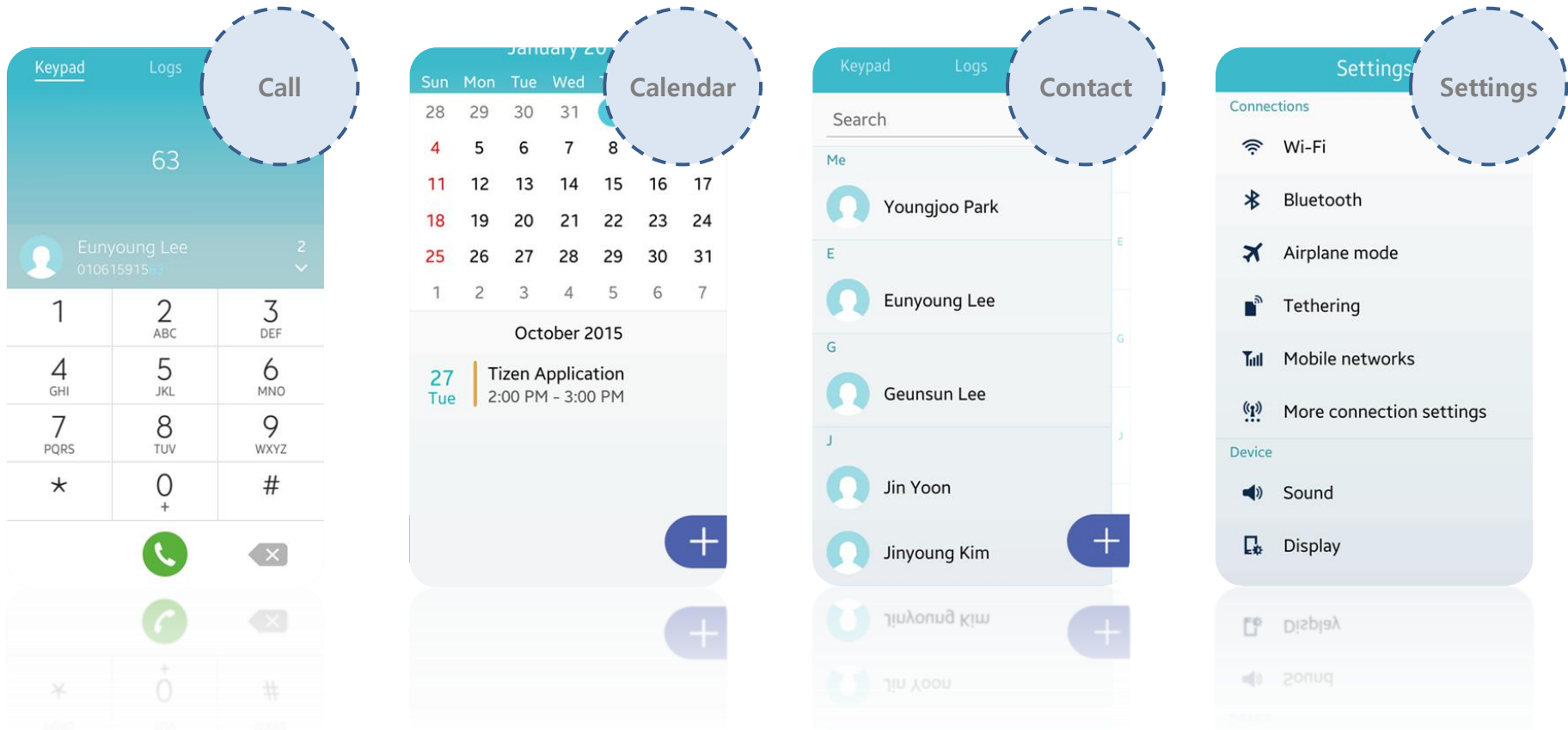


5-inch HD resolution display

SAMSUNG Z3



Tizen Mobile Reference Application



12 Reference Applications in Tizen 2.4 Platform

Hosted WebApp

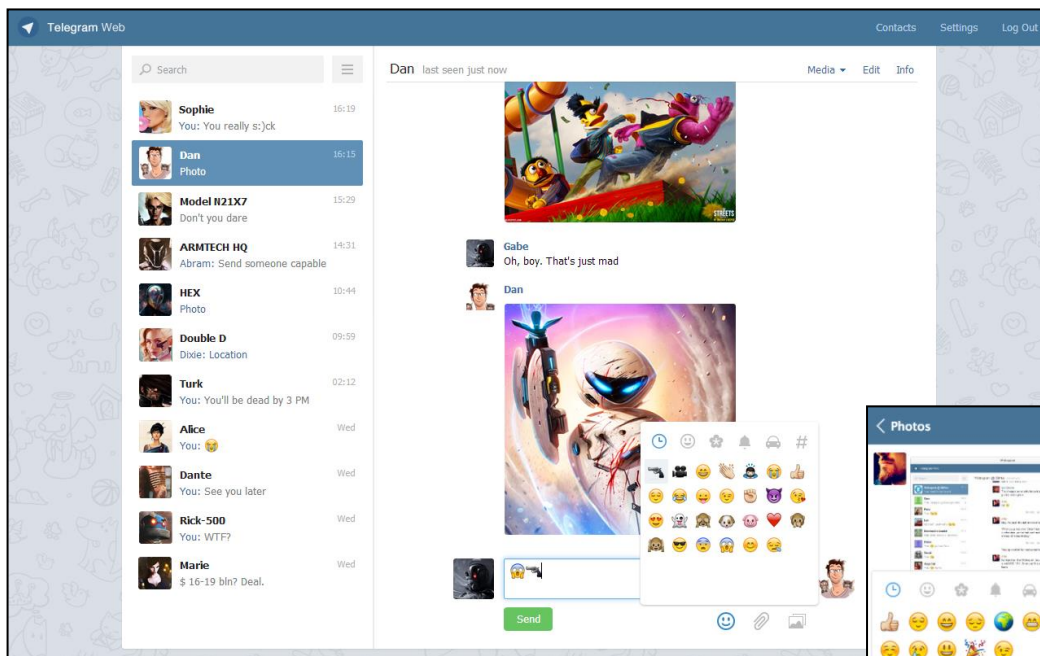
The hosted WebApp have an externally hosted page as their starting page.

Ex) Kakao Group

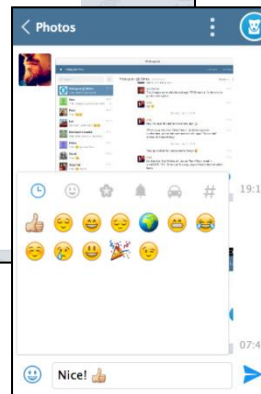


Telegram base on opensource

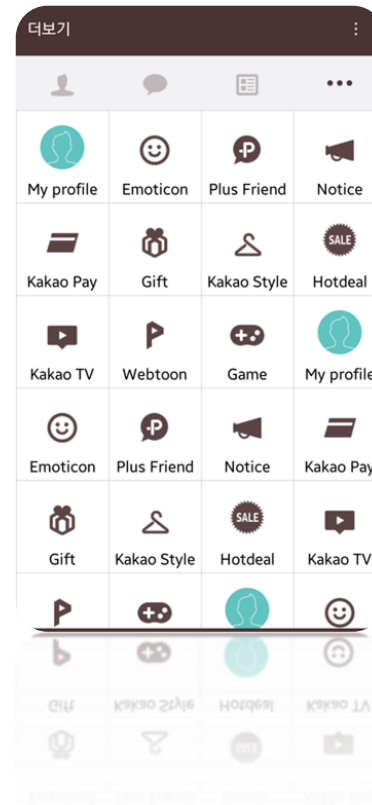
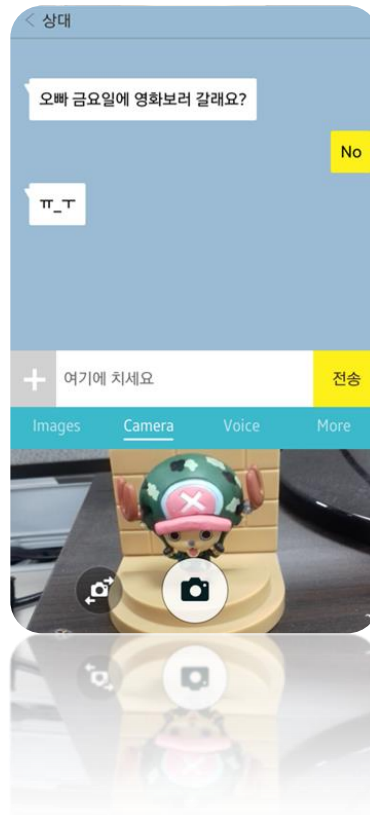
If you use opensource, you can create the Telegram Web App only in a few minutes.



- Short development period
- Auto Update base on opensource
- Supports the multiple profile / size

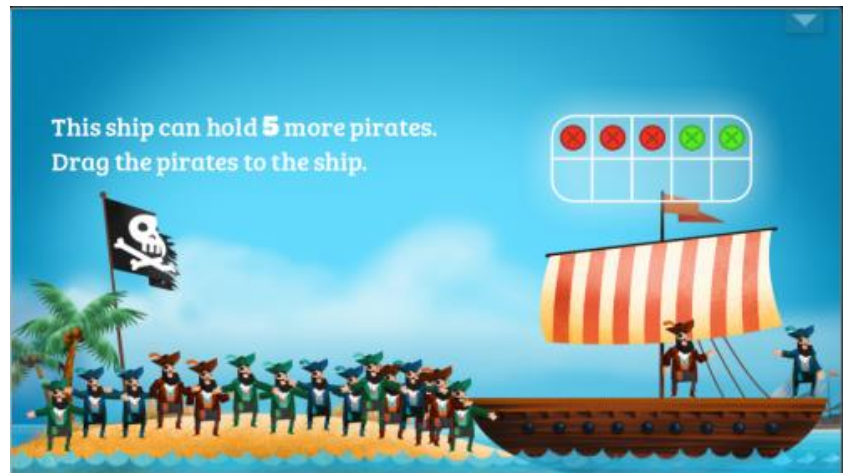
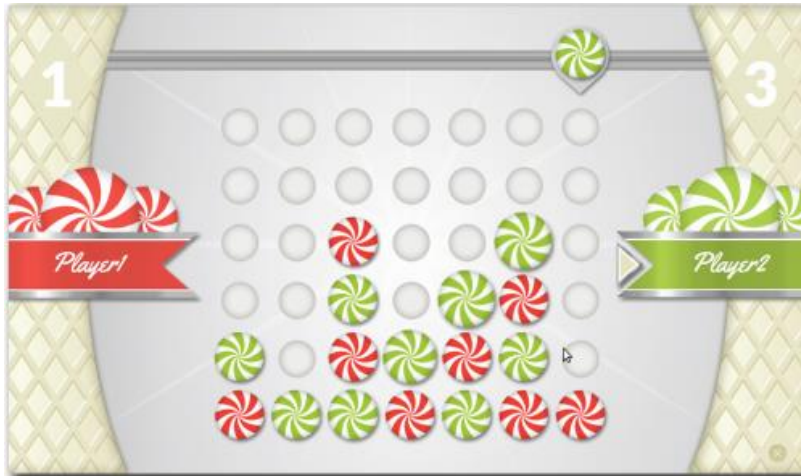


MessageApp Prototype



- 10 Hours / 1 Engineer
- Layouting
- View managing
- Optimized List
- Optimized Grid
- Video / Voice Recording
- Video Playing
- Multi-language

Tizen Mobile Sample Application



<https://01.org/html5webapps>



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TV App Development

TIZEN TV SDK 1.5

WEB APPLICATIONS



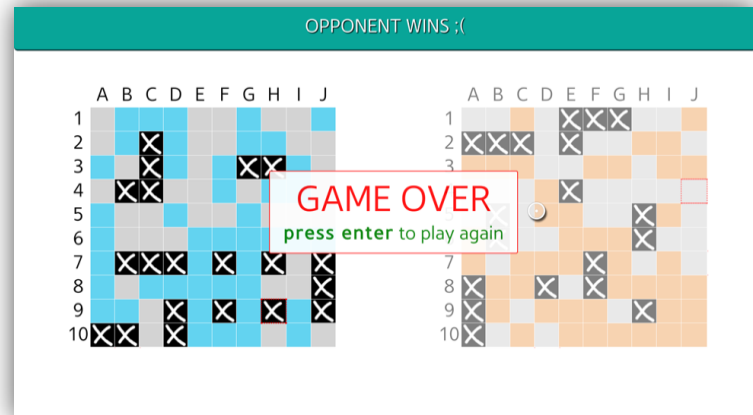
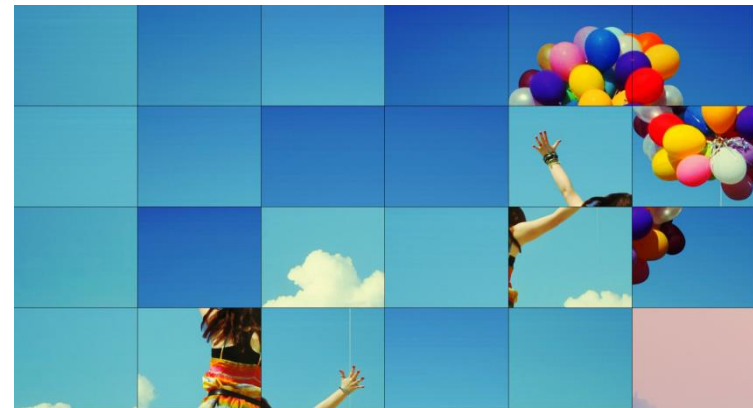
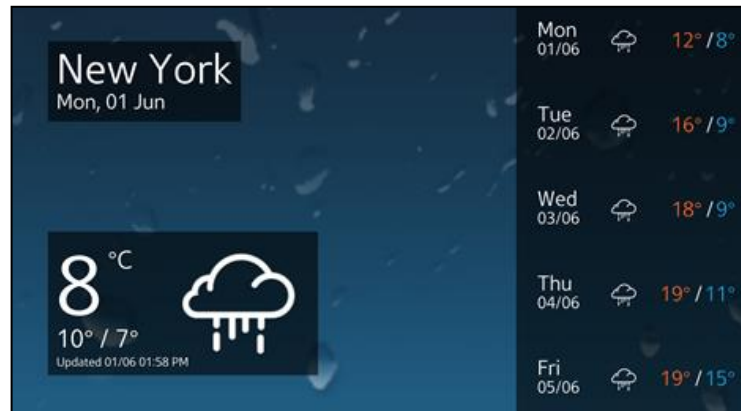


TIZEN TV

Launched Worldwide 2015

Tizen TV Sample Application

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Conclusion

Conclusion



THANK YOU!