



## Introduction to Tizen SDK

## 1. Getting started with the SDK

## 2. Demonstrations:

- A tour of the IDE
- How to use the Emulator
- The Simulator and other tools
- Documentation

## 3. Summary

- Tizen SDK is a comprehensive set of tools for Tizen app development

## IDE

- Competitive editor for HTML, CSS, Javascript
- Project management, templates, samples, documentation
- Multiple target (Emulator/Device) management



## Target like Emulator

- Various Device Emulation based on open source QEMU
- Event Injector such as Call/SMS send and receive



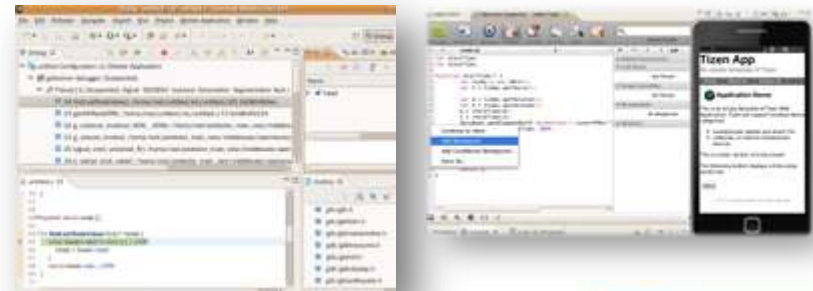
## GUI Builder

- Productive and visual WYSIWYG/ Web GUI builder (*TBD*)



## Others

- Debugging & profiling based on remote web inspector
- One step install, Multi-OS support
- Platform development (native) support



WYSIWYG GUI design/editing



Project management & easy code editing



Static & Dynamic Analysis



IDE

Test/debugging



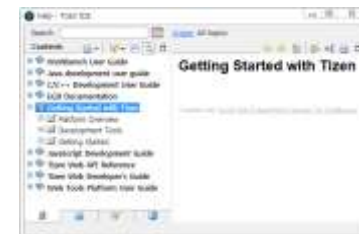
Build system & Toolchain

- OBS
- Rootstrap management
- Cross compiler, packaging
- Project compatibility
- SDB

Live SDK update



Help Contents



Project Management  
& Easy Code Editing

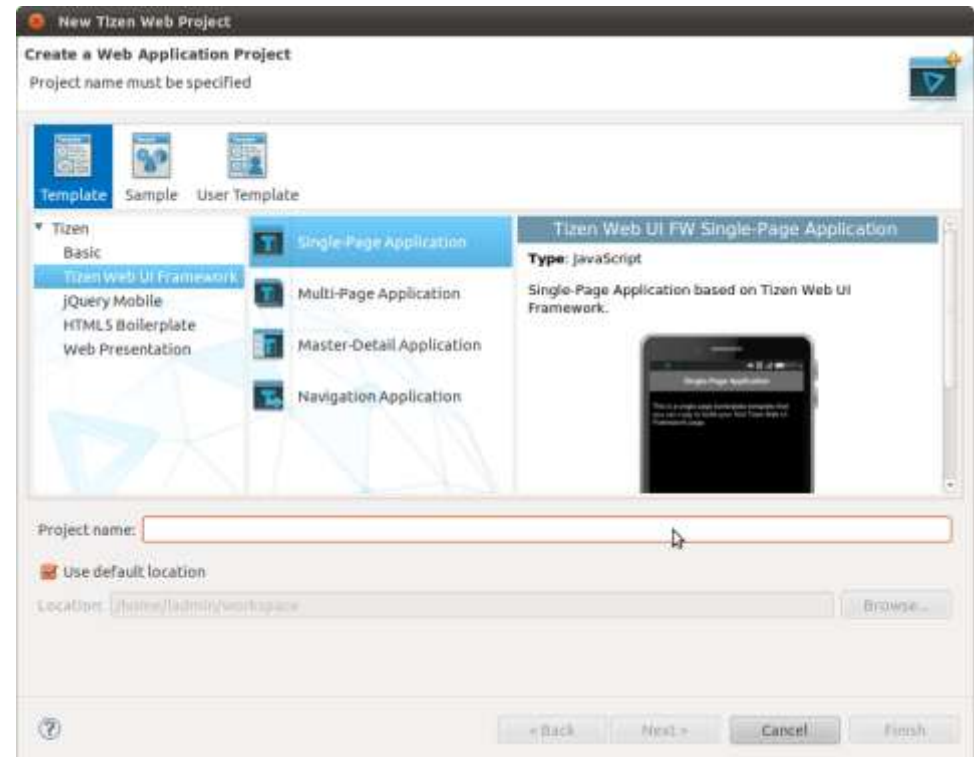
Emulator &  
Event Injector

Simulator

Debugging  
& Profiling

Multiplicity

- **Project Wizard**
  - Templates
  - Tizen sample applications
  - User-defined templates



```
function startTime() {
    var today = new Date();
    var h = today.getHours();

    var m = today.
    var s = today.
    m = checkTime(
    s = checkTime(
    document.getEl
    t = setTimeout
}

function checkTime
    if (i < 10) {
        i="0" + i;
    }
    return i;
}
```

**Number Date.getHours()**

function getHours()

**Since:**

Standard ECMA-262 3rd. Edition  
Level 2 Document Object Model Core  
Definition.

**@memberOf**  
Date

**@returns**  
{Number}

```
tizen.
}
```

- △ alarm AlarmManager - Tizen
- △ application Application - Tizen
- △ bluetooth BluetoothManager - Tizen
- △ calendar CalendarManager - Tizen
- △ call CallManager - Tizen
- △ constructor Function - Object
- △ contact ContactManager - Tizen
- △ filesystem FileSystemManager - Tizen
- △ lbs LBS - Tizen
- △ mediaContent MediaSourceManager - Tizen
- △ messaging Messaging - Tizen

Press 'Ctrl+Space' to show Template Proposals

- **Hover**

- Access API documentation from within the code

- **Auto-completion**

- Find Tizen APIs & avoid typing errors

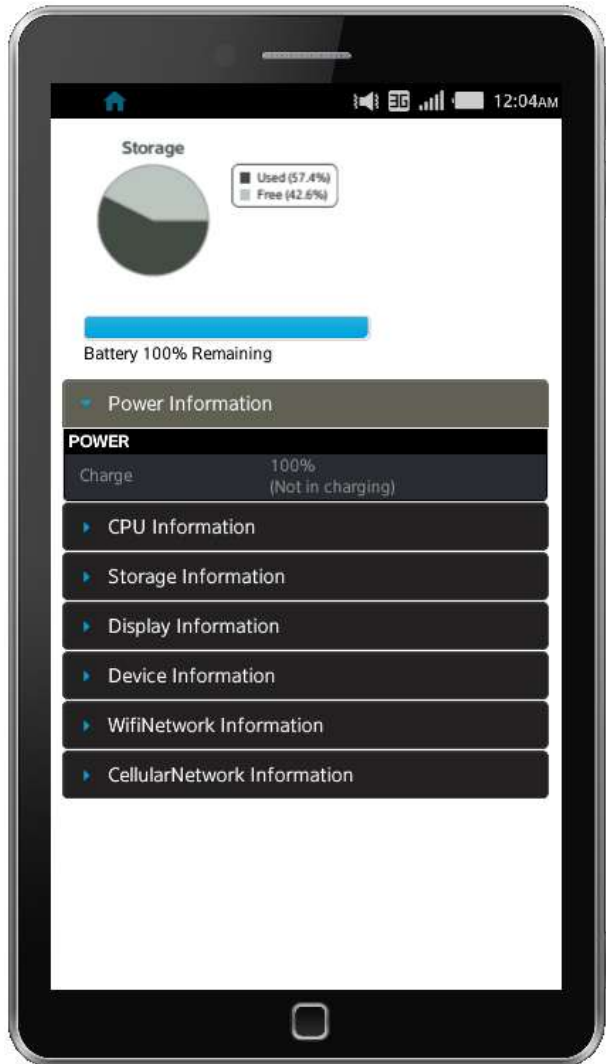
Project Management  
& Easy Code Editing

Emulator &  
Event Injector

Simulator

Debugging  
& Profiling

Multiplicity



- **Virtual machine**

- based on QEMU
- x86 support  
(ARM support planned for future)

- **Emulator Manager**

- configure screen resolution & RAM size
- create multiple images

- **HW Virtualization support**

- KVM (Kernel-based Virtual Machine in Linux) & HAXM (Hardware Accelerated eXecution Manager in Windows)

Project Management  
& Easy Code Editing

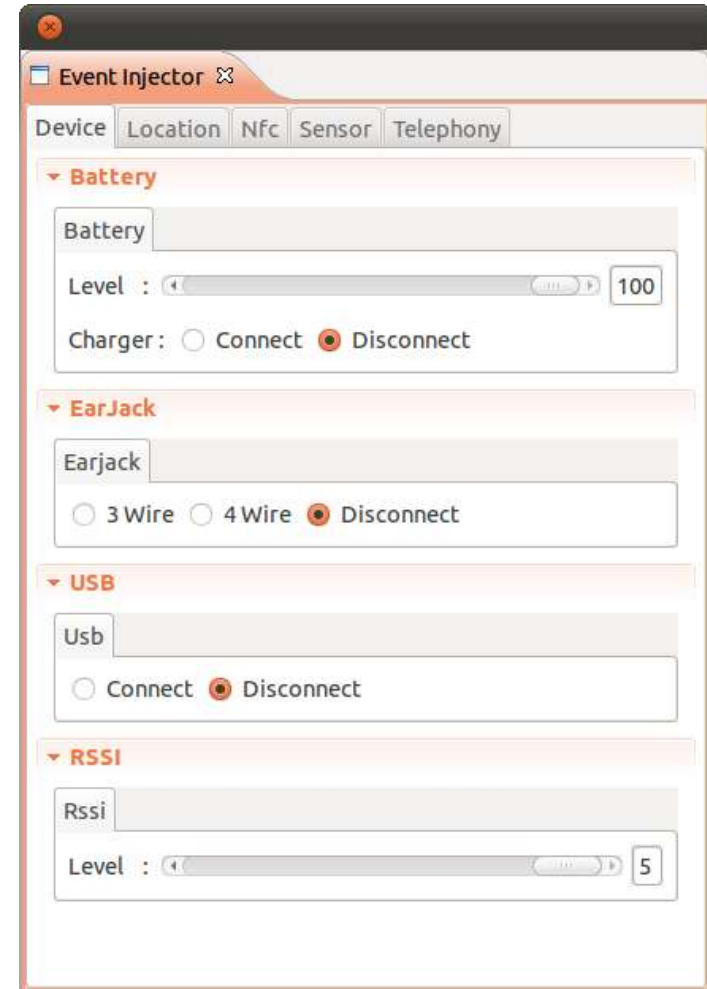
Emulator &  
Event Injector

Simulator

Debugging  
& Profiling

Multiplicity

- **Device**
  - device levels & connections
- **Location**
  - virtual GPS with the Location Injector
- **NFC**
  - attach & detach an NFC tag
- **Sensor**
  - inject position & motion based events
- **Telephony**
  - generate SMS messages & calls





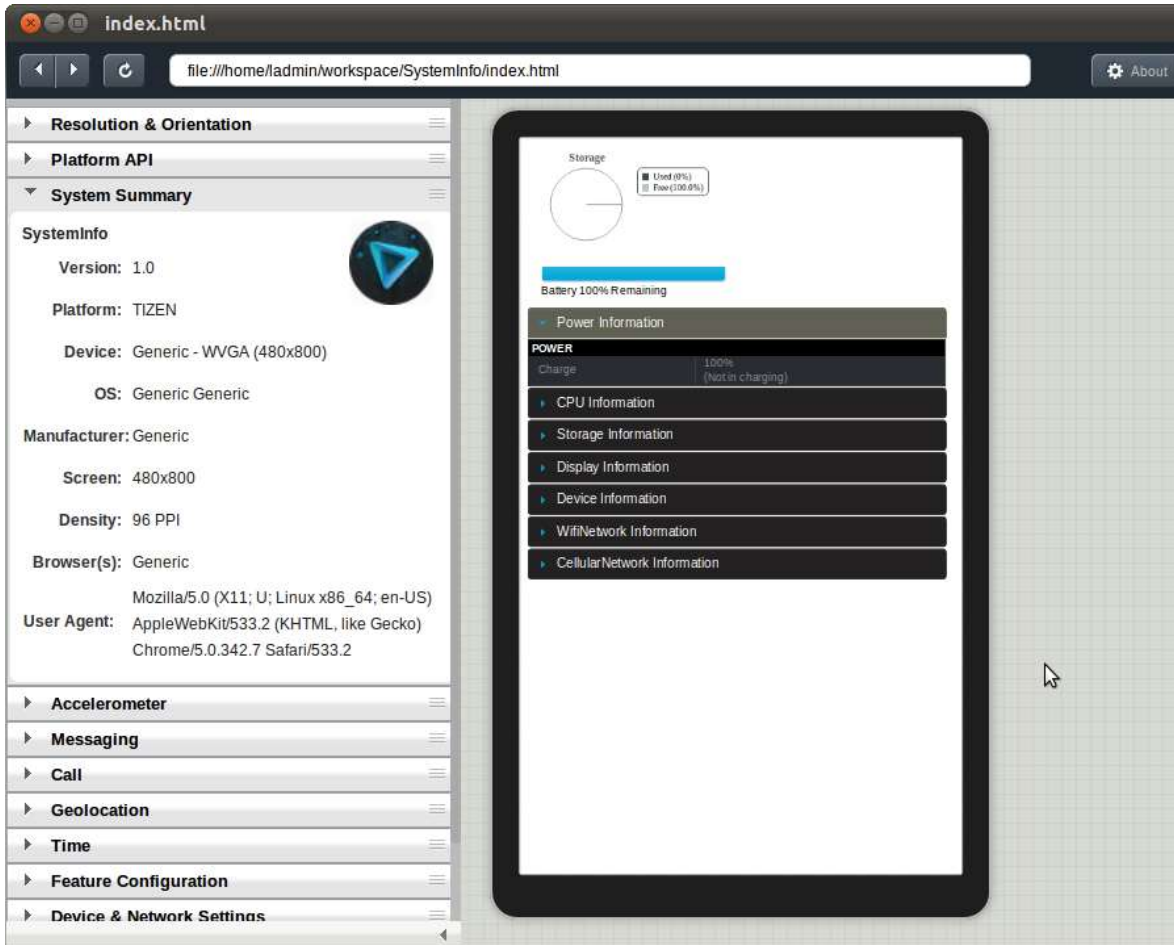
Project Management  
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Emulator &  
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Simulator

Debugging  
& Profiling

Multiplicity



- Quickly run & debug  
Tizen web applications

- Based on Ripple-UI  
Framework & runs on  
Google Chrome

- Simulates Tizen Web APIs  
via JavaScript backend

Project Management  
& Easy Code Editing

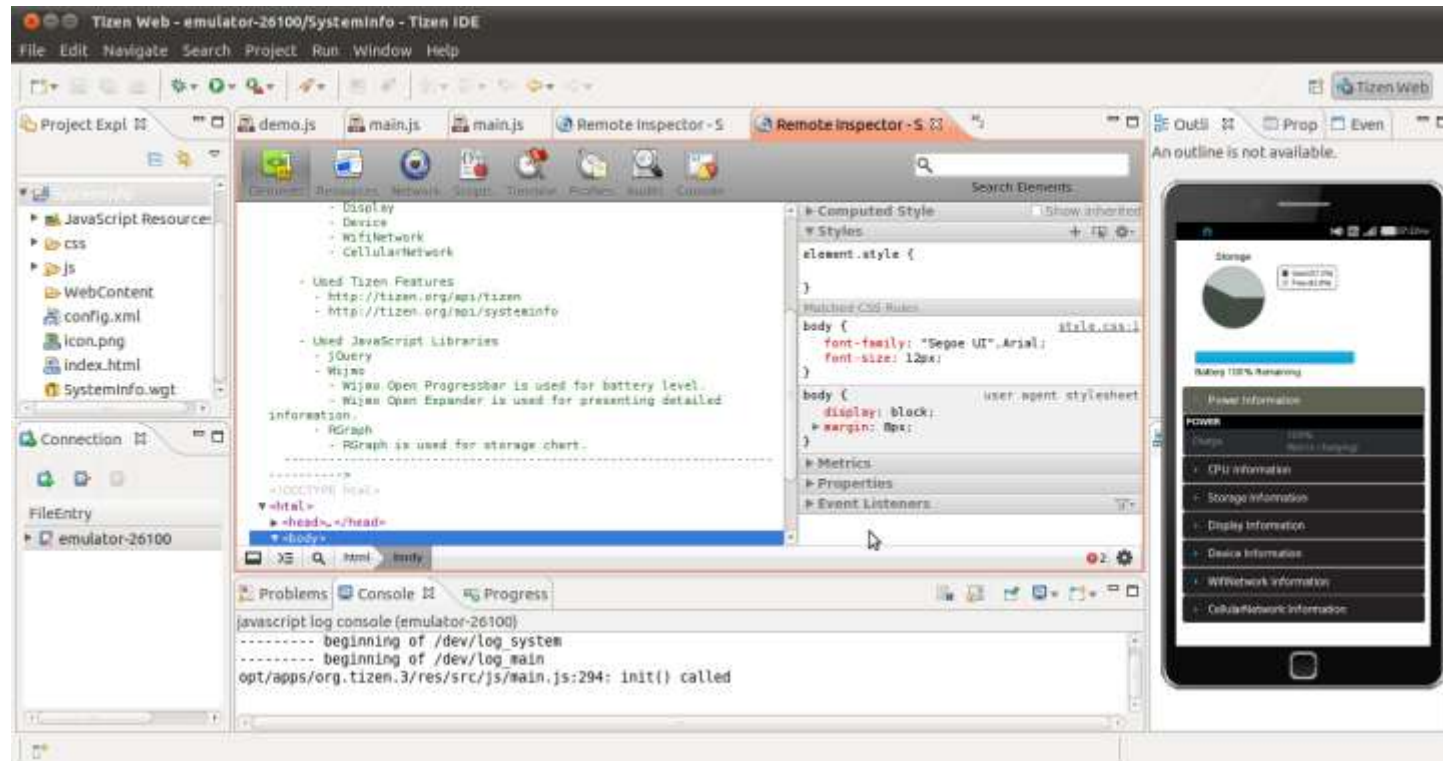
Emulator &  
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Simulator

Debugging  
& Profiling

Multiplicity

- **Remote Inspector, integrated in Tizen SDK**
  - JavaScript Debugging, DOM Inspection, CSS Style Inspection, Resources Inspection, Timeline and Profiles



Project Management  
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Multiplicity

- **Multi-OS**
  - Tizen SDK runs in Windows (XP/7) & Linux (Ubuntu)
- **Multi-device**
  - The emulator enables you to test one app on multiple devices
- **Multi-Instance**
  - Concurrent execution of multiple emulator & real device instances
  - IDE supports multi-project debugging (e.g., testing device-to-device communication app)

- **A tour of the IDE**
- **How to use the Emulator**
- **The Simulator and other tools**
- **Documentation**

- Introduced the SDK features
- Shown how to use the IDE, Emulator, Simulator
- Shown the documentation: APIs and tutorials
- Tizen 1.0 SDK(Larkspur) is available now  
: download from <https://developer.tizen.org/sdk>
  
- Development is ongoing and includes:
  - Web app GUI Builder
  - Static/dynamic analysis tools for web app
  - ARM emulator
  - Event injector improvements