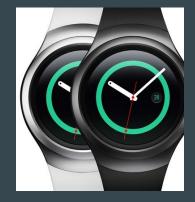
Tizen OS

 $\bullet \bullet \bullet$

César Galvis Triviño

¿Qué es Tizen?









Tizen OS

- Lanzado en enero del 2012
- Patrocinado por la Linux Foundation y la fundación LiMo
- Construido a partir de la plataforma Linux de Samsung (SLP)
- Sistema operativo diseñado para funcionar con múltiples tipos de dispositivos (smartphones, wearables, IoT, automóviles).
- Permite ejecutar aplicaciones:
 - Nativas (C, C++, Python, Lua)
 - Web (HTML5, Javascript)
 - Android (con un clon de Dalvik)

Estado actual

- A pesar de que su uso en smartphones ha sido bajo, en otro tipo de dispositivos (wearables, domótica, automóviles) ha sido muy exitoso. Solo en wearables Tizen superó a Android Wear el año pasado al venderse 3.1 millones de relojes Samsung S2.
- El mercado de los wearables y del IoT puede considerarse joven. Hace falta esperar el comportamiento de los usuarios hacia estos productos, los avances tecnológicos y la competencia que aún queda pendiente (Android Wear 2.0, Android TV, Windows 10, etc ...).

Ventajas (wearables)

- Entorno abierto que permite personalización total en wearables.
- Permite ejecutar de manera eficiente aplicaciones nativas de gestión de información personal (PIM).
- Mayor integración a seguimiento de datos relacionados a la salud y al deporte.
- Al ser más abierto, se facilita la integración a diferentes formatos de pantalla.
- Menor consumo de batería comparado con Android Wear



Ejemplo: Hola Mundo

Primeros pasos

- 1. Verificar prerrequisitos para Tizen Studio:
 - a. Windows: desde Windows 7, 32 y 64 bits
 - b. Mac OS X: desde versión 10.8, solo 64 bits
 - c. Ubuntu: versión 14.04 y 16.04, 32 y 64 bits
 - d. JDK (Oracle)
 - e. Ver otros requisitos en: https://developer.tizen.org/development/tizen-studio/download/installing-tizen-studio/prerequisites
- 2. Descargar el SDK y Tizen Studio: https://developer.tizen.org/development/tizen-studio/download

Prerrequisitos (Windows 7 - 8)

- Python 2.7.x
 - Descargar la versión adecuada desde aquí https://www.python.org/downloads/
 - Después de instalar, configurar la variable de entorno %PATH% en:
 Equipo -> Propiedades -> Avanzado -> Variables de entorno

Prerrequisitos (Ubuntu)

- Actualice los repositorios de software:
 sudo apt-get update
- Instale los siguientes paquetes para desarrollo:
 sudo apt-get install libwebkitgtk-1.0-0 cpio rpm2cpio
- Instale los siguientes paquetes para el emulador nativo: sudo apt-get install acl bridge-utils openvpn libfontconfig1 libglib2.0-0 libjpeg-turbo8 libpixman-1-0 libpng12-0 libsdl1.2debian libsm6 libv4l-0 libx11-xcb1 libxcb-icccm4 libxcb-image0 libxcb-randr0 libxcb-render-util0 libxcb-shape0 libxcb-xfixes0 libxi6

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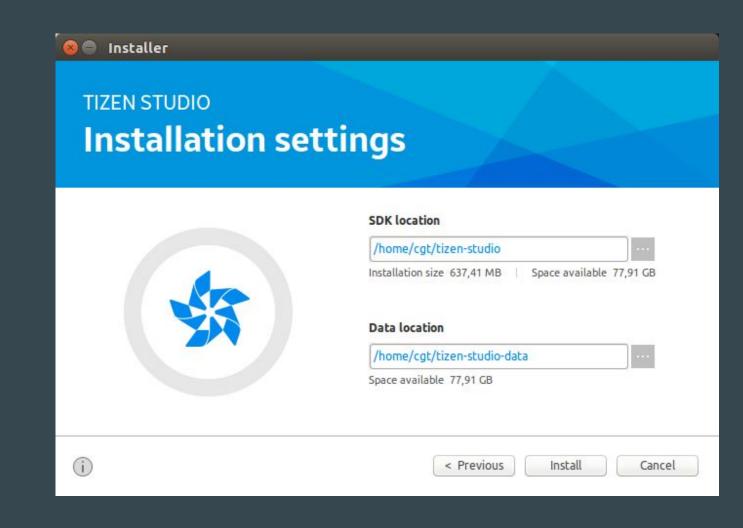
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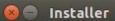
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Instalación



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Installation complete



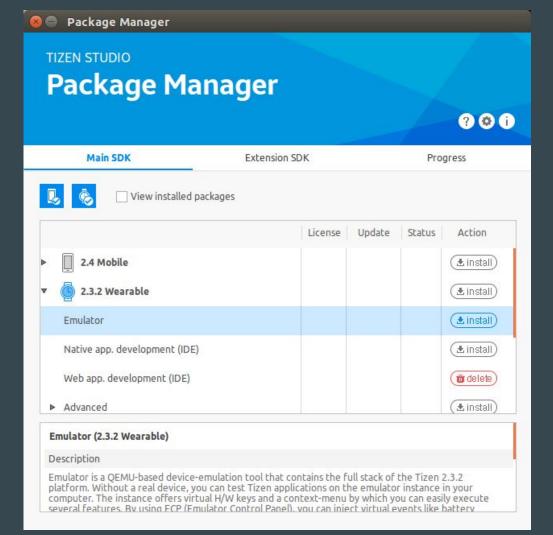
The Tizen Studio requires additional packages to be installed to support, for example, native application development.

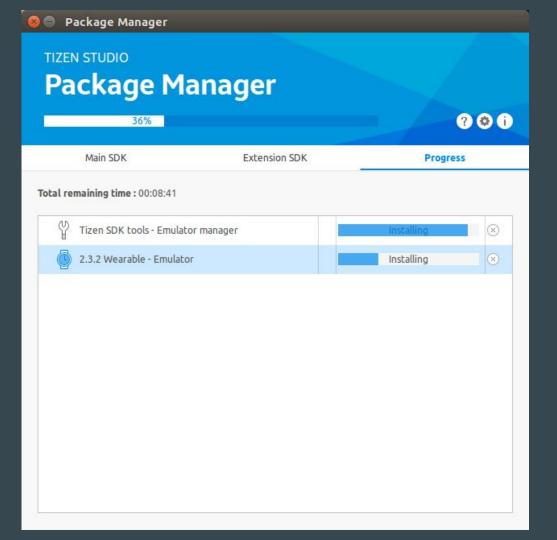
To install additional packages, run the Tizen Studio Package Manager by checking the following checkbox.

After the package installation, reboot your computer.



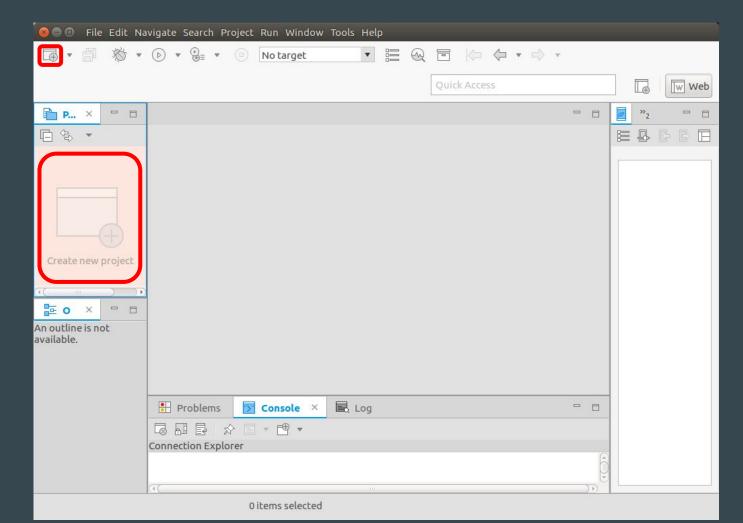
Launch the Tizen Studio Package Manager

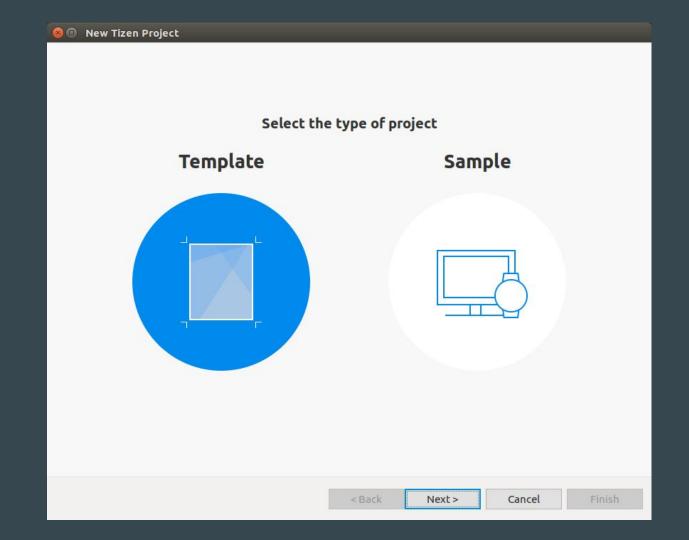


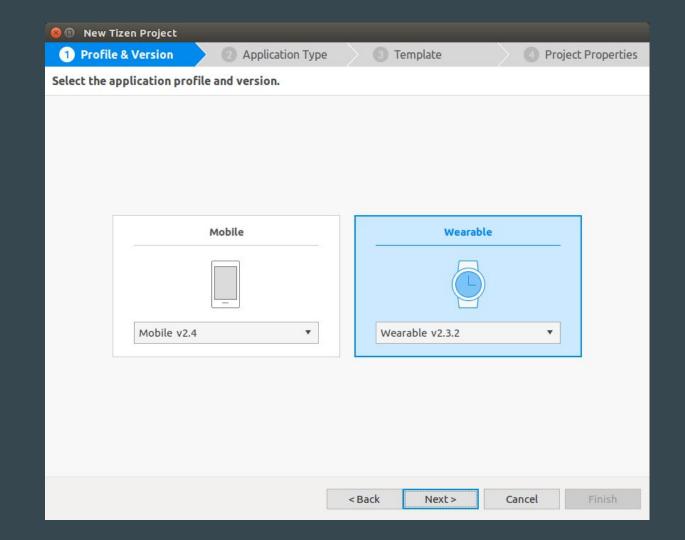


Configuración

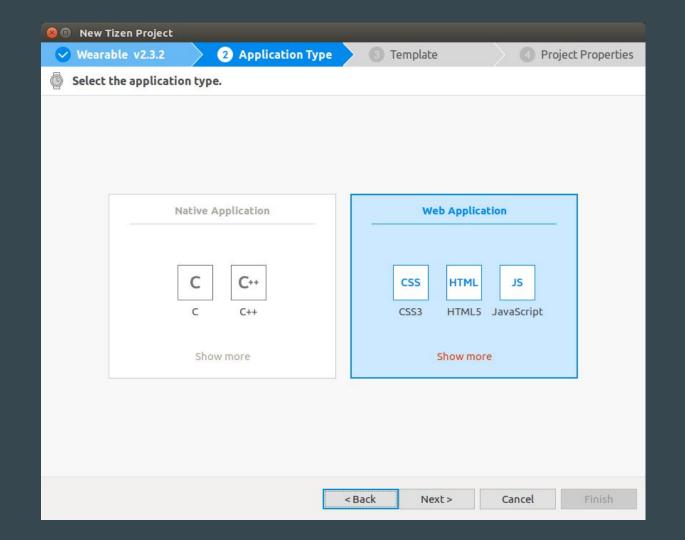
Hola Mundo

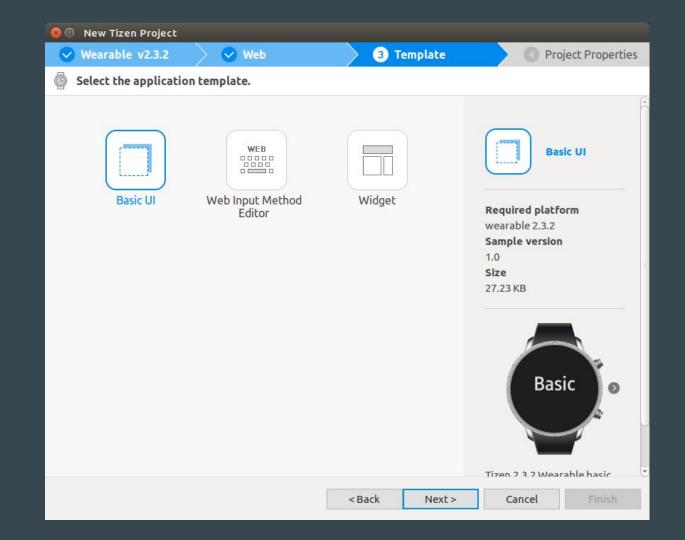




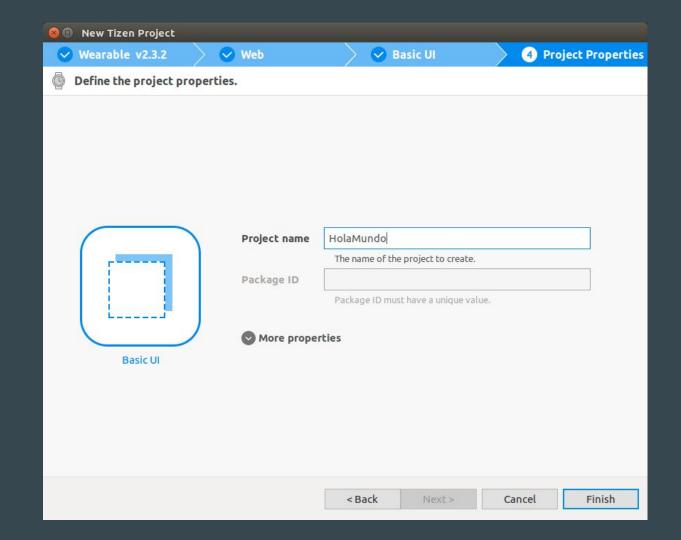


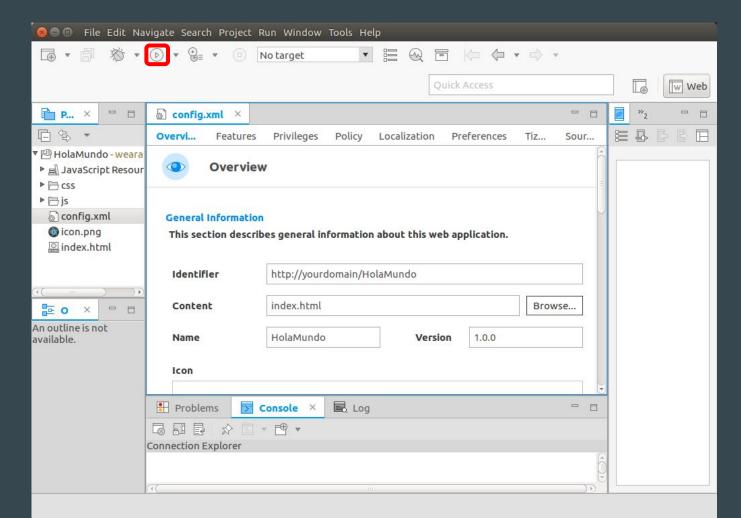
Nuevo proyecto

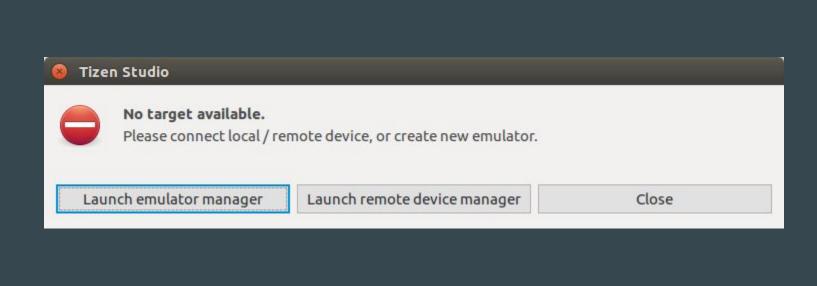


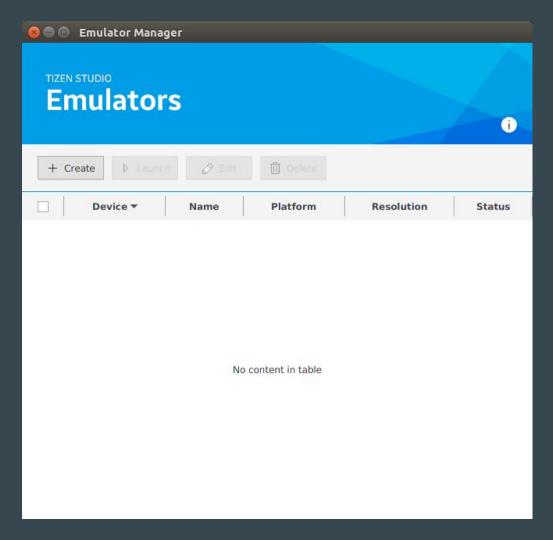


Nuevo proyecto

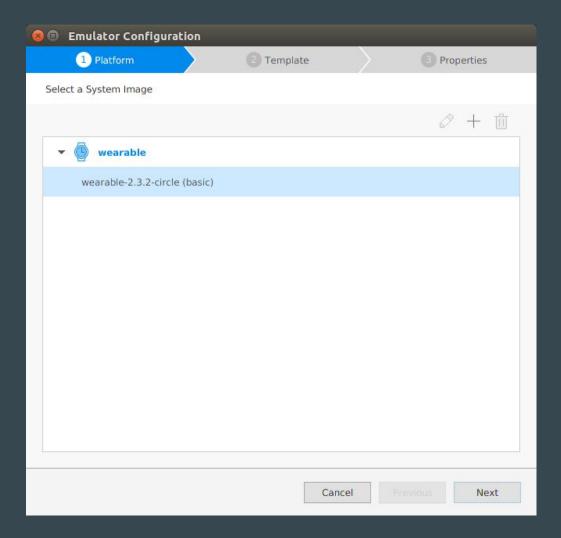


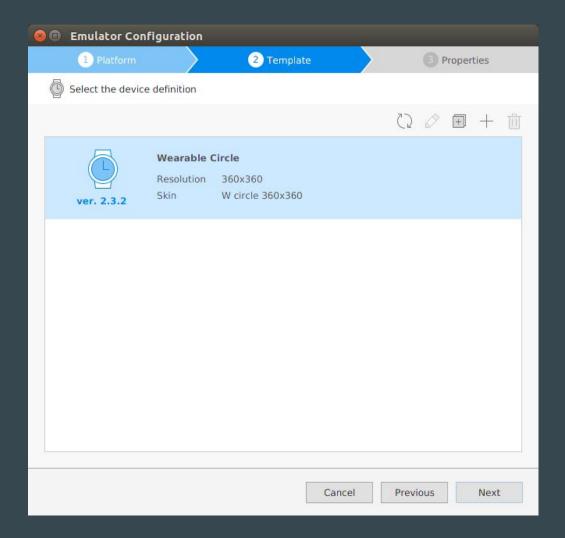


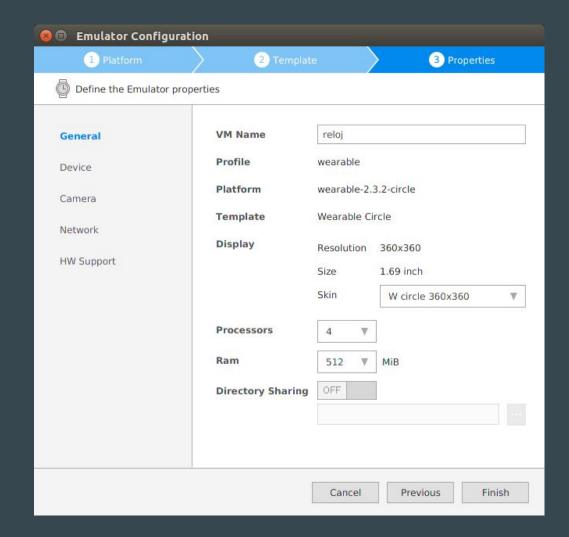


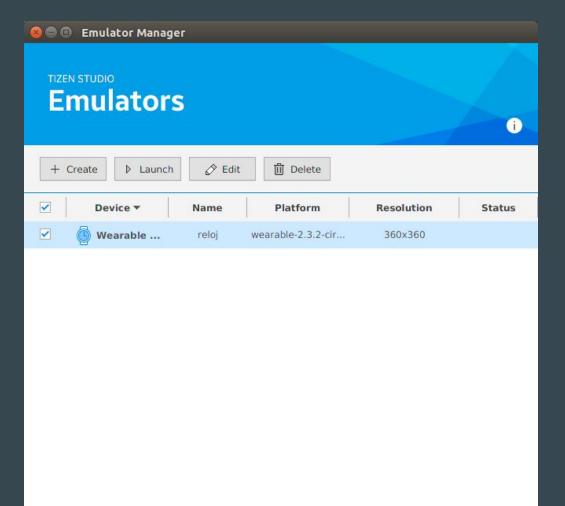


Crear emulador





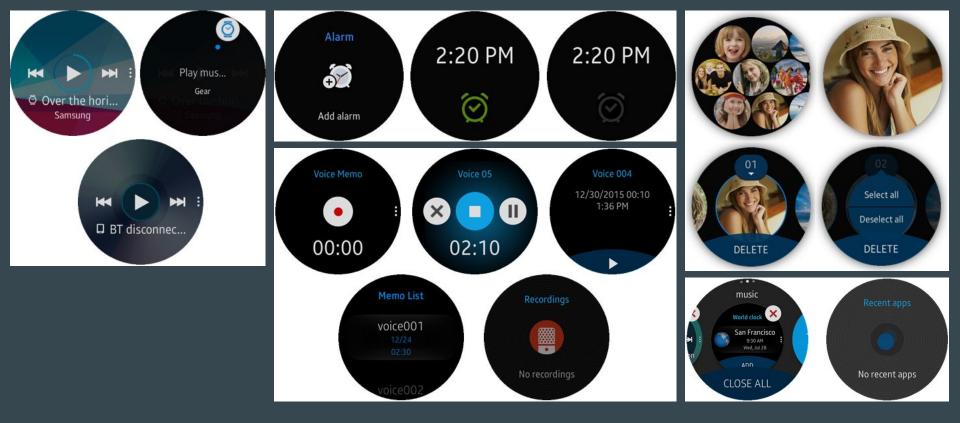




Crear emulador



Ejecutar



Algunos ejemplos

Referencias

- https://developer.tizen.org/ko/development/tizen-studio/download
- https://developer.tizen.org/ko/development/tizen-studio/download/installing-tizen-studio/download/installing-tizen-studio?langredirect=1
- https://developer.tizen.org/ko/development/sample/native/UI
- http://www.elmundo.es/tecnologia/2016/05/24/5744882046163f6c1e8b456c.html