

Tizen.org Web Infrastructure

Michael Shaver, Intel
Daehyeon Jung, Samsung

TIZEN[™]
**DEVELOPER
CONFERENCE**
2013
SAN FRANCISCO

- Why do we need it?
- Map of Infrastructure
- Current Features
- Roadmap of Features
- Who's Involved

The image features a dark, textured background with several overlapping geometric shapes. On the left, there is a solid blue circle partially overlapping a circle with blue and white diagonal stripes. In the center, there are several large, dark grey and black circles and a curved shape that resembles a thick cylinder. On the right, the text "Why do we need it?" is written in white. Below the text, there is a small, solid yellow circle.

Why do we
need it?

Diverse audience!

Primary

- Application Developers: write applications to run on top of Tizen
- Platform Developers: kernel/distribution developers, release engineers, quality assurance, etc.
- Vendors: companies who create products based on Tizen

Secondary

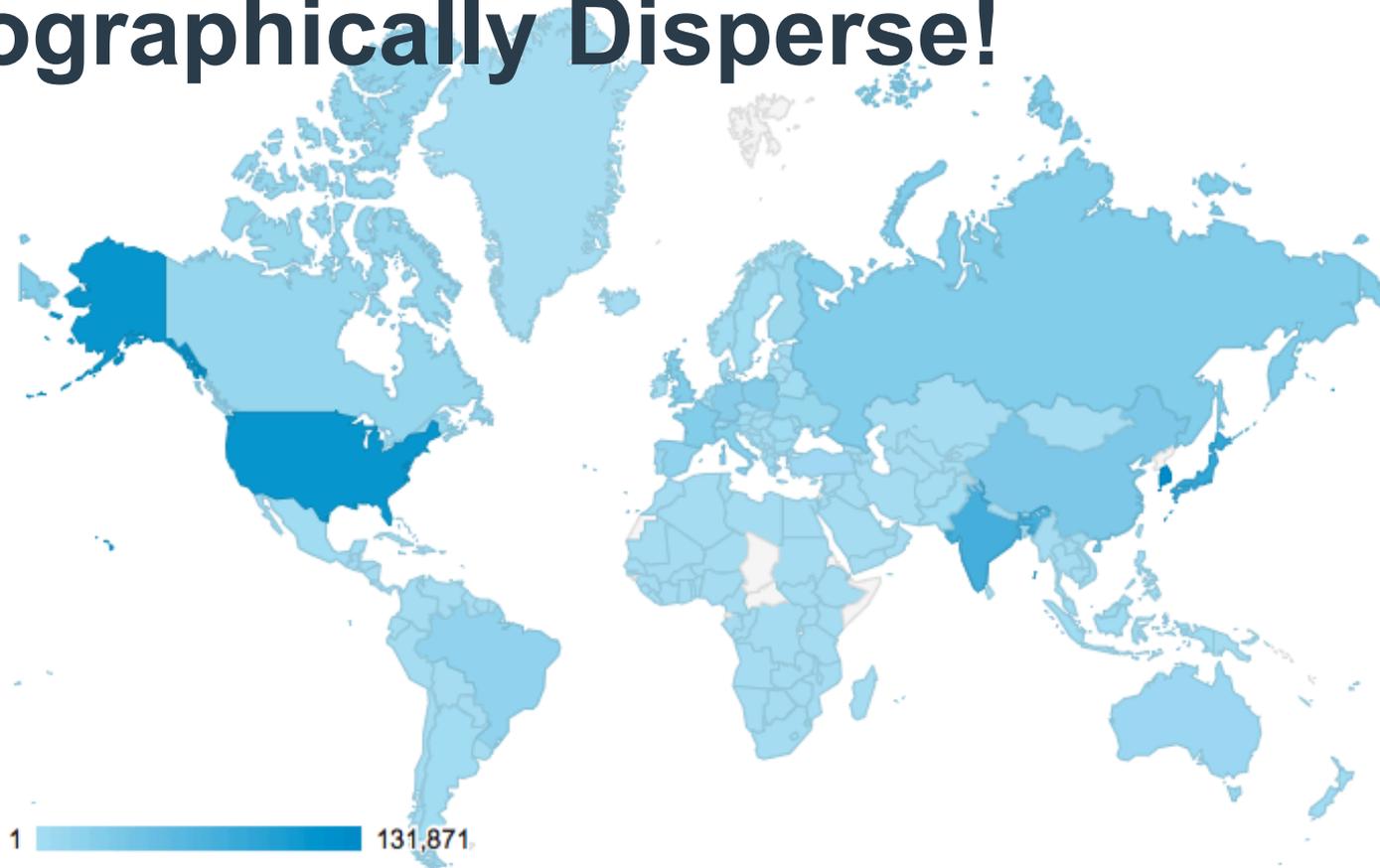
- Users: people who run Tizen on their device and provide feedback
- Other Users: promotion, press



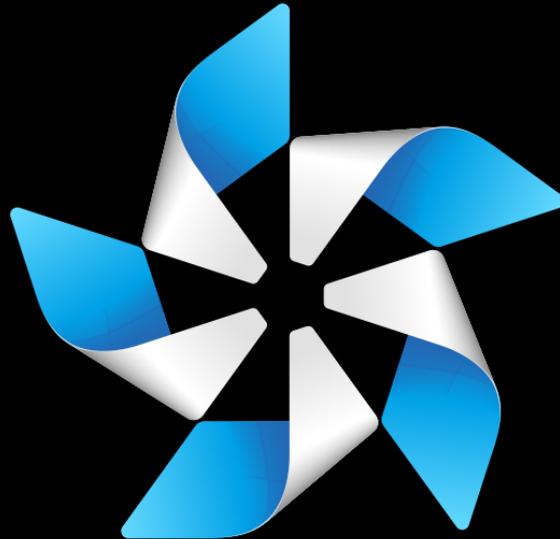
Growing number of developers!



Geographically Disperse!



First time to Tizen

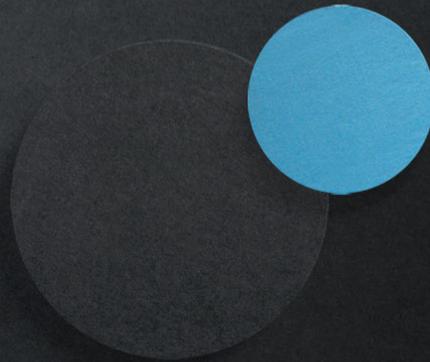


First time to HTML5

HTML



Map of Tizen Infrastructure



Download Server

<https://download.tizen.org>



Jira(Bug Tracker)

<https://bugs.tizen.org/jira>



Websites

<https://www.tizen.org>
<https://developer.tizen.org>
<https://source.tizen.org>
<https://wiki.tizen.org>



Accounts



Git/Gerrit

<https://review.tizen.org/git>
<https://review.tizen.org/gerrit>



OBS

<https://build.tizen.org>

Websites (Drupal CMS)

Main – <https://www.tizen.org>

- Main project website
- Overview information across the project
- Audiences: ALL, general interest, press, bloggers

Developers – <https://developer.tizen.org>

- Application Developer website
- Information required to develop applications for Tizen
- Audience: application developers

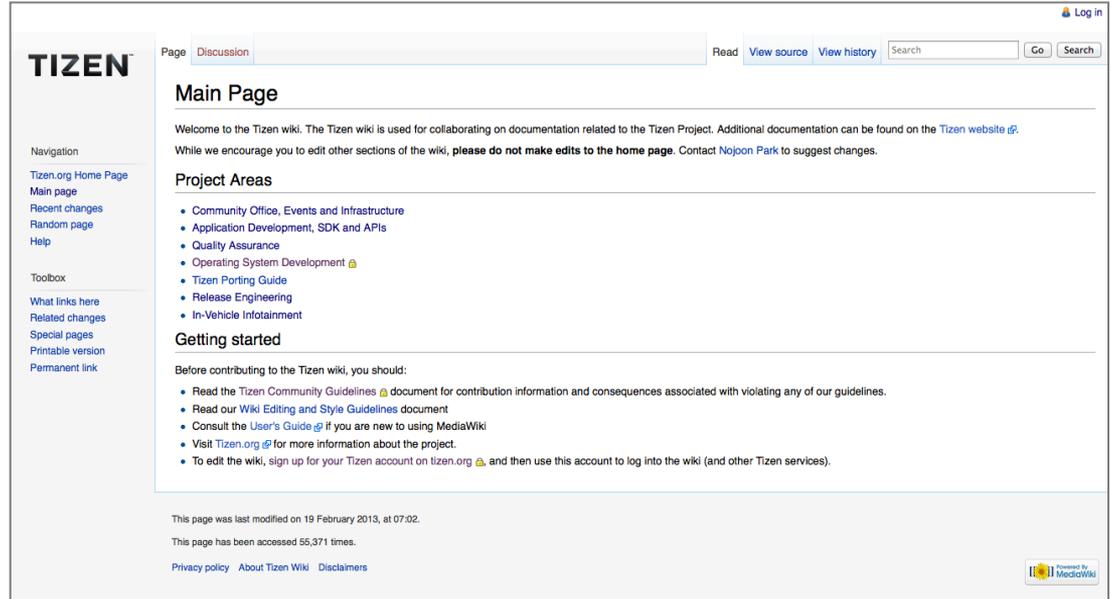
Source – <https://source.tizen.org>

- Platform Developer website
- Information about getting source code and building from source
- Audiences: platform developers, vendors building products on Tizen

Wiki (MediaWiki)

<https://wiki.tizen.org>

- Community driven



The screenshot shows the Tizen Wiki Main Page. At the top left is the TIZEN logo. Below it is a navigation sidebar with links for Home Page, Main page, Recent changes, Random page, Help, Toolbox, What links here, Related changes, Special pages, Printable version, and Permanent link. The main content area has a breadcrumb trail: Page > Discussion. Below this is a search bar and a 'Log in' link. The main heading is 'Main Page'. The text below the heading reads: 'Welcome to the Tizen wiki. The Tizen wiki is used for collaborating on documentation related to the Tizen Project. Additional documentation can be found on the [Tizen website](#). While we encourage you to edit other sections of the wiki, **please do not make edits to the home page**. Contact [Nojoon Park](#) to suggest changes.' Below this is a section titled 'Project Areas' with a bulleted list: Community Office, Events and Infrastructure; Application Development, SDK and APIs; Quality Assurance; Operating System Development; Tizen Porting Guide; Release Engineering; and In-Vehicle Infotainment. The next section is 'Getting started' with a sub-heading 'Before contributing to the Tizen wiki, you should:' followed by a bulleted list: Read the Tizen Community Guidelines; Read our Wiki Editing and Style Guidelines; Consult the User's Guide; Visit Tizen.org for more information; and To edit the wiki, sign up for your Tizen account. At the bottom, there is a footer with the text: 'This page was last modified on 19 February 2013, at 07:02. This page has been accessed 65,371 times. Privacy policy About Tizen Wiki Disclaimers'. In the bottom right corner, there is a 'Powered by MediaWiki' logo.

Bug Tracker (JIRA)

- <http://bugs.tizen.org>
- **Report bugs and request new features**
- **Current JIRA Project Categories**
 - Tizen Mobile: Core, Webkit, Kernel, Framework, Samples...
 - Tizen IVI: Generic, Wayland, Webkit, Connectivity...
 - Tizen Common
 - Tizen SDK: IDE, Emulator, Documentation, Installer, Web Simulator
 - Development Tools: GBS, MIC
 - Tizen Infrastructure: Websites, Jira, Mailing lists, Wiki
 - Tizen Policies: Community Process, Trademark and Copyright
 - Tizen Web API

Git and Gerrit

- <https://review.tizen.org/git/>
 - Tizen Project uses *git* for managing source code
 - SSH Key registration required for *git clone/checkout*
- <https://review.tizen.org/gerrit>
 - Developer can submit patches to Gerrit review system
 - Source Code reviewers can be found at <https://source.tizen.org/documentation/tizen-source-code-reviewers>

OBS (Open Build Service)

- <https://build.tizen.org>
- Open source distribution development platform for Linux distributions
- Used by openSUSE, Tizen and other distributions
- Access only available for Release Engineering Team
- Community developers should use *Git Build System (GBS)*

Download Server

- <http://download.tizen.org>
 - Download latest packages, official releases
- <http://cdn.download.tizen.org>
 - Content Distribution Network through AWS
 - Closer proximity to downloads
 - Bandwidth optimization

Mailing Lists

- <https://lists.tizen.org> - subscription, archives
- general@lists.tizen.org - for general discussion
- application-dev@lists.tizen.org - application development
- product-dev@lists.tizen.org - platform development
- ivi@lists.tizen.org - In-Vehicle Infotainment (IVI)
- announce@lists.tizen.org - announcements about Tizen project where only admins can post to list

- **REMEMBER everything you post to the mailing lists is PUBLIC, will live on the internet FOREVER and CANNOT BE DELETED, so think carefully before posting.**

IRC

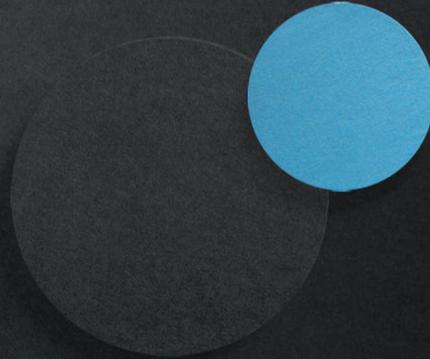
- **Primary Channel**
 - #tizen at irc.freenode.net

- **#tizen IRC Logs**

<https://www.tizen.org/irclogs>

raster	the gpl/gpl/bsd/mit-x11/apr's etc. are well known and dont have any pitfalls u wont already know	[00:09]
ron_frown	yeah	[00:10]
ron_frown	not worried about that stuff	[00:10]
ron_frown	well x11 makes me shudder, but not because of its licensing	[00:10]
raster	flora wikipedia	[00:10]
ron_frown	will do	[00:10]
raster	x11 isnt bad :)	[00:11]
ron_frown	meh	[00:11]
raster	its that big furry cuddly grizzly bear.	[00:11]
raster	big furry and cuddly	[00:11]
ron_frown	its just put a bad taste in my mouth since early slack dasy	[00:11]
ron_frown	days	[00:11]
raster	until it decides it's hungry	[00:11]
raster	:)	[00:11]
raster	just feed it fish and honey regularly and u're all good :)	[00:12]
raster	and x these days is a very different beast from the early days of slack/xf86/linux	[00:12]
ron_frown	maybe so... but not so much like wayland etc	[00:13]
*** Thanatermesis has quit IRC		
raster	wayland is a even more different beast	[00:13]
raster	its a smaller beast	[00:13]
ron_frown	yep	[00:13]
raster	a bit more like your friendly neighborhood hyena.	[00:14]
raster	all nice and puppy-like	[00:15]
raster	until it gets hungry	[00:15]
Sachiell	then it laughs at you	[00:15]
raster	yeah	[00:15]
raster	as it tears your arms off	[00:15]

Website Features



www.tizen.org

- Account management across all tizen.org services
 - All account updates should happen here
 - LDAP backend
 - Can control access to services easily
- About
 - What is Tizen
 - Tizen Brand Guidelines
- Community
 - Contribution Guidelines
- Blogs
 - project announcements
- Events
 - Tizen Developer Conference
 - Other conferences where Tizen may have a presence

www.tizen.org: access request

[View](#)

Access Requests

[Edit](#)

[OpenID identities](#)

Platform Review Service (Gerrit)

Access to this service should only be requested by platform developers who are maintaining or reviewing code.

Platform Build Service (OBS)

Access to this service should only be requested by release engineers who are building Tizen.

Application details

Enter an explanation for how you will use the role, if it is granted.

APPLY

developer.tizen.org

- **SDK Downloads**
- **SDK Release Notes**
- **Documentation (creating apps)**
- **Forums**
- **API References**
- **Contests**
- **Development Unit Applications**
- **Blogs (application developer focused)**

developer.tizen.org: forums

- <https://developer.tizen.org/forums>
- Categories
 - General Support
 - Web App Development
 - Native App Development
 - SDK & IDE

General Support

ACTIVE TOPICS UNANSWERED TOPICS NEW & UPDATED TOPICS

NEW TOPIC MARK ALL AS READ

TOPIC	REPLIES	LAST POST
Bay Area Tizen App Developers Meetup BY Olivier Nyssen on 9 Dec 2012, 20:19	2 2 new	2 hrs, 57 min ago BY Raghurama Kona
Device running TIZEN? BY mars lei on 11 Dec 2012, 01:50	4	9 Dec 2012, 07:56 BY Carlos Gomez
How to write a handler for additional mimetypes? BY Stuart Dickson on 29 Nov 2012, 19:00	3 2 new	8 Dec 2012, 01:25 BY oytun eren sengul
Child Browser for Tizen BY Stuart Dickson on 29 Nov 2012, 19:00	5 2 new	8 Dec 2012, 01:25 BY oytun eren sengul
Emulator System BY gomez on 29 Nov 2012, 19:00	3	8 Dec 2012, 01:25 BY oytun eren sengul

1 2 3 4 5

Responsive Design

Desktop



Tablet



Mobile

OTHER TIZEN SITES LOGIN REGISTER

TIZEN

ABOUT BLOGS COMMUNITY EVENTS

TIZEN 2.1 NECTARINE SDK AND SOURCE CODE RELEASE

Download the latest Tizen SDK release and start developing your application today!

DOWNLOAD THE SDK

THE COMMUNITY

Tizen 2.1 SDK and Source Code Release
17 MAY 2013. BY TECHNICAL STEERING GROUP
We are pleased to announce that Tizen 2.1 source code and SDK are now available at...

UPCOMING EVENTS

MAY 27 **Automotive Linux Summit**
Tokyo, Japan

PROMOTION

TIZEN DEVELOPER

TIZEN

TIZEN 2.1 NECTARINE SDK AND SOURCE CODE RELEASE

Download the latest Tizen SDK release and start developing your application today!

DOWNLOAD THE SDK

THE COMMUNITY

Tizen 2.1 SDK and Source Code Release
17 MAY 2013. BY TECHNICAL STEERING GROUP
We are pleased to announce that Tizen 2.1 source code and SDK are now available at...
READ MORE

Tizen Conference schedule
9 APR 2013. BY THIAGO MACIEIRA
After a couple of weeks reviewing the 160+ sessions submitted to the program committee, we have...
READ MORE

UPCOMING EVENTS

MAY 27 **Automotive Linux Summit**
Tokyo, Japan

PROMOTION

TIZEN DEVELOPER CONFERENCE

TIZEN

TIZEN 2.1 NECTARINE SDK AND SOURCE CODE RELEASE

Download the latest Tizen SDK release and start developing your application today!

DOWNLOAD THE SDK

THE COMMUNITY

Tizen 2.1 SDK and Source Code Release
17 MAY 2013. BY TECHNICAL STEERING GROUP
We are pleased to announce that Tizen 2.1 source code and SDK are now available at...
READ MORE

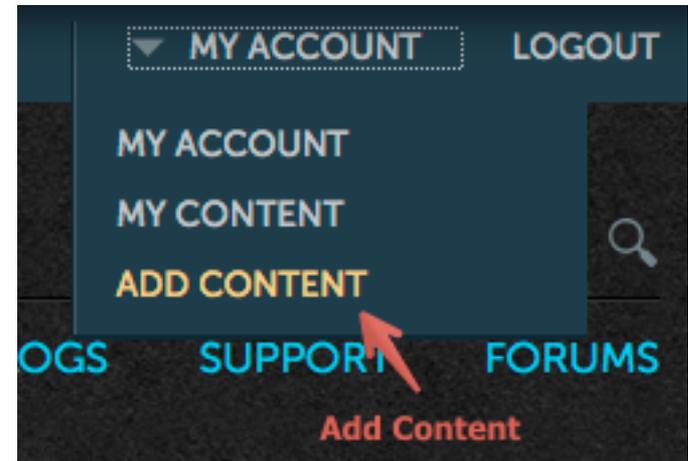
Tizen Conference schedule
9 APR 2013. BY THIAGO MACIEIRA
After a couple of weeks reviewing the 160+ sessions submitted to the program committee, we have...
READ MORE

Responsive Design Challenges

- **3 separate home pages**
- **Mobile menu with multiple levels of navigation**
- **Content within pages**
 - Images
 - Tables
 - Etc

Editorial Workflow

- <https://developer.tizen.org/tizen/editorial-workflow>
- Allows content to follow an editorial process
- Assignments based
- More authors of content
- New drafts of published content



Editorial Workflow



- Author
 - Create content or have it assigned to them
- Reviewer(s)
 - Technical review and editing
- Editor
 - Language and grammar editing
- Publisher
 - Final review and publishing

Editorial Workflow: My Content

My Content

Filter by title:

by state:

by assignment:

Items per page

APPLY

RESET

TITLE ▾	ASSIGNMENT	LAST UPDATE ▾	FEEDBACK	STATE ▾	LINKS
 Geolocation Tutorial Published content	Author (view all assignees)	23:14 MAY 02 2013 BY Michael Shaver	 View	Editing	View Draft Manage Revisions
 Working with the Alarm API Indicates content is your responsibility in the workflow now	Author (view all assignees)	23:11 MAY 02 2013 BY Michael Shaver	 View	Published	New Draft View Published Manage Revisions
 Web Control in Tizen	Author (view all assignees)	23:10 MAY 02 2013 BY Test Account Author	 View	Authoring	Edit Draft Manage Revisions

Documentation Feedback

- Provide feedback on documentation for author

File attachments:

imagetouchslide.zip

Category: Sample Code

Tags: Tizen::Ui, Touch

Report issues or improvements with documentation

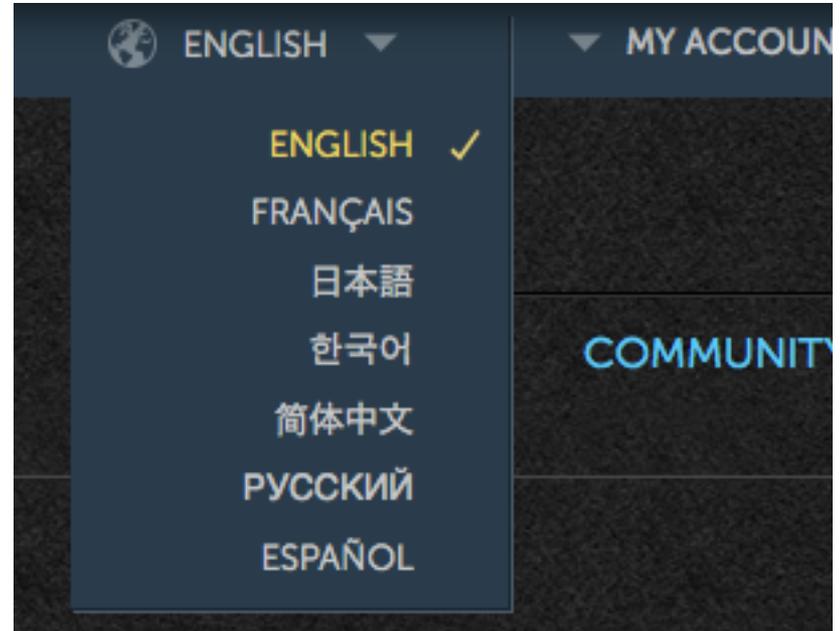
Do you see a problem you'd like to report?

Content Styles

- <https://developer.tizen.org/tizen/styles>
- **Used to help with layout and design of documentation**
- **General web styles that can be used when authoring content**
 - Headers
 - Bullets
 - Code
 - Images
 - Notes
 - Links
 - Buttons
 - Etc

Localization of sites

- **Lingotek translation management**
- <http://lingotek.com/>
- **Interface Translation First**
- **Content Translation Workflow:**
 1. Content authored
 2. Pushed to Lingotek backend
 3. Machine Translation
 4. Translation Memory
 5. Professional Post Editing
 6. Pulled back into sites
- **Community Translations**
 - Same as above but community translators would do the post editing and there would be a final review



Localization: Community Translations

The screenshot displays the Lingotek Workbench interface for reviewing a translation. At the top, the Lingotek logo and 'WORKBENCH' are visible, along with 'View', 'Edit', and 'Help' menu options. The main area shows a project for '2013' with a 'Percent Complete' of 0% and a 'Phase' of 'Review' for 246 words. A 'Review Translations' section is active, showing the 'Original Text' as a URL: `https://www.eiseverywhere.com/file_uploads/c9fb70a69b29083af7942e2fe279ef19_LF_05_Tizen2013_eTouches_Header_v1.jpg`. The 'Current Translation' field contains the same URL. Below the text are buttons for 'Copy Original Text', 'Revert Changes', and 'Special Characters'. A red 'Unapproved' status indicator is present. A 'Show revision history' link and an 'Approve and Next' button are also visible. At the bottom, a comparison between 'English' and 'French' is shown. The English text includes a placeholder `` and the French text is its translation. A status bar at the bottom right shows 'Formatting 0', 'Matches Exact', 'Terms 0', 'MT 2', and 'Notes 0'.

The background features several overlapping dark grey geometric shapes, including a large circle, a smaller circle, and a curved rectangular shape. On the left side, there are two overlapping circles: a solid blue one on top and a blue one with white diagonal stripes below it. A single yellow circle is positioned in the lower right area of the slide.

Roadmap of Features

Dev Guide Migration

Search: Go Scope: All topics

Contents

- + Getting Started with Tizen
- + Tizen Web App Programming
- + Tizen Native App Programming
- + Tizen Platform Development
- + Tizen SDK Development

Using the help system

Browse topics in the **Contents** frame () on the left. Click on a topic to have it displayed. Use the **Back** and **Forward** buttons to navigate within the history of viewed topics.

Searching

To quickly locate topics on a particular subject in the documentation, enter a query in the **Search** field. Use the **Search** frame () to display the Search view. You can narrow the **scope** of your search by selecting only the sections you are interested in.

Synchronizing

Clicking the **Show in Table of Contents** button () will select that topic in the navigation tree. The **Link with Contents** button () keeps the navigation tree synchronized to the current topic.

Capabilities

To show documentation about capabilities that are disabled in the application, select the **Show All Topics** button () . This affects the table of contents and search results.

Dev Guide Migration

- **Import content into CMS (Drupal)**
- **Retain navigation structure**
- **Apply editorial workflow to content**
- **Localization of content**
- **Export structure and contents for packaging in each new release of the SDK**

Documentation Improvements

- ▶ UX Guide
- Dev Guide
- Articles

▼ BROWSE DOCUMENTATION

Keywords

Category

APPLY RESET

Articles

TITLE ▼	CATEGORY ▼	LAST UPDATED ▼
Asset Library	UX Guide	
Touch Feedback	UX Guide	
Typography	UX Guide	
	UX Guide	

TIZEN DEVELOPERS

DOCUMENTATION DOWNLOADS BLOGS SUPPORT FORUM

TIPS FOR PORTING EXISTING OPENGL APPLICATIONS TO TIZEN

As OpenGL® is used for 3D graphics and has enormous features for game developers. It is not an exaggeration to say that without it, no mobile platform is complete.

CONTINUE READING ▶

DOCUMENTATION

- ▶ Web App Development
- ▶ UX Guidelines
- ▶ W3C Support

W3C SUPPORT

Search APIs

Tizen supports a broad range of W3C compliant APIs and attributes. However you may want to check specific attributes for support in Tizen.

Content Staging

- **Allow collections of content or documentation to be previewed before publishing**
- **View site as it would look at a future date**
- **Publish the collections on a schedule**

Advanced Search Across Tizen

- **Search across all sites**
 - <https://www.tizen.org>
 - <https://developer.tizen.org>
 - <https://source.tizen.org>
 - <https://wiki.tizen.org>
 - <https://bugs.tizen.org>
- **Apache Solr**

W3C & Tizen API Support

- ▶ [UX Guide](#)
- [Dev Guide](#)
- [Articles](#)
- ▼ [Web API Support](#)
 - ▶ [Supplementary API Support](#)
 - ▶ [Tizen Device API Support](#)
- ▼ [W3C/HTML5 API Support](#)
 - ▶ [CSS3](#)
 - ▶ [Communication](#)
 - ▶ [DOM Forms](#)
- ▼ [Device](#)
 - [Battery Status API](#)
 - [DeviceOrientation Event](#)

Battery Status API

[View](#)[Edit](#)[Lingotek](#)[Lingotek Developer Tools](#)[Log](#)

ATTRIBUTE	TIZEN VERSION	SUPPORT LEVEL
BatteryManager.ondischargingtimechange	2.1	yes
BatteryManager.chargingTime	2.1	yes
NavigatorBattery.battery	2.1	yes
BatteryManager.level	2.1	yes

Accommodate Additional Device Types

- **Site is primarily focused on handset**
- **Need to re-architect certain areas to accommodate other device types, such as IVI, PC, TV, other?**
 - Releases & Downloads
 - Promotion
 - Forums

Other Features???

We need input from community using the infrastructure

- **What are you using?**
- **What is useful?**
- **What is missing?**

Submit requests to <https://bugs.tizen.org>

- Tizen Infrastructure Project
- Websites Component



Who's Involved

Community Team

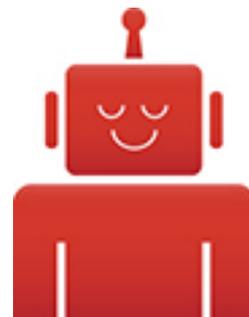
- **Thiago Macieira**
- **Michael Shaver**
- **Shira Womack**
- **Daniel Holmlund**
- **Brian Warner**
- **Sriram Ramkrishna**
- **Eric Manton**
- **Michael Ludden**
- **지명진 Myeongjin Ji**
- **마재준 Jaejun Ma (JJ Ma)**
- **이성진 Seongjin Lee**
- **한대호 Daeho Han**
- **정대현 Daehyeon Jeong**
- **최태호 Taiho Choi**
- **박노준 Nojoon Park**
- **이명재 Myungjae Lee**
- **김홍익 Hongik Kim**
- **정동신 Dongshin Jung**
- **장혜경 Hyekyeong Chang**
- **Junyoung Park**
- **Julio Staude**
- **Stewart Christie**
- **Kirill Chuvilin**
- **Hiroki Minagawa**
- **Amarnath Kona**
- **Matsuzono Katsuki**
- **Romuald Rozan**
- **Youngsik Yoon**

Development Team

- **Lullabot (Drupal Development Agency)**
- <http://www.lullabot.com/>

Design

- **Claire Alexander**
- **Cyrene Domogalla**





Questions?



TIZEN™

**DEVELOPER
CONFERENCE**

2013

SAN FRANCISCO