ubuntu®



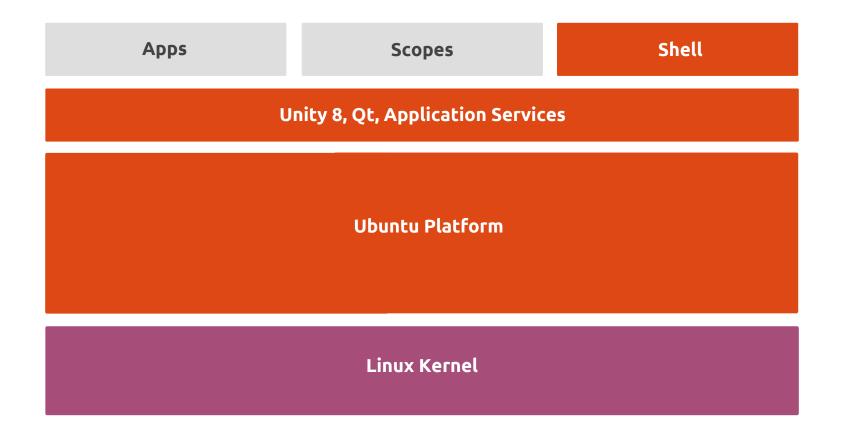
the human touch

What is Ubuntu for Phones?

It's all Ubuntu



One Platform



Everything you're familiar with

> Same kernel

> Same platform services*

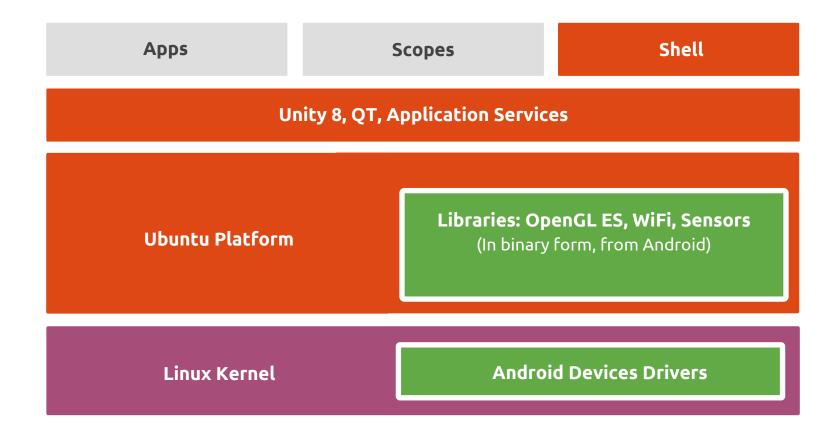
Same GNU userland tools

> Same archives

> Same Unity shell*

* Phone and desktop versions current out of sync

Runs on Android hardware



Adds new technology

> Mir

- > Click packages
- > Application Confinement
- > Lifecycle Management
- > Image-based Updates (OTA)

Adds telephony features

- > Voice Calling
- > SMS/MMS
- > Cellular Data
- > SIM card management
- > Android Container

A better app development story

- > Improved Developer Portal
- > Created an Ubuntu SDK
- > Lots of new platform services
- > Simplified packaging
- > Faster, easier app store
- > Ready for a converged future

Why should you care about new app platforms?

You might think that...

"Android + iOS own the mobile phone market, it's too late for new platforms to compete"

Previous King of the Hill

- > In 2007 Nokia has 51% market share
- In 2004 Symbian had 70%
- > In 2010 IDC predicted that Symbian would still be #1 in
- 2014 with 33% market share
 - > Predicted Blackberry would be #2
- > In 2010 Gartner predicted that Symbian would still be #1
- in 2014 with 30% market share

Current king is still new

In Q4 2010 Android finally passed Symbian

- > Based on quarterly shipments, not phones in use
- > Symbian's unit shipments didn't decrease until 2011
- > Symbian spent 6 years as #1 mobile phone OS
- > Android currently at **4 years** as #1
- > Apple was <u>never</u>#1

You might think that...

"Android/iOS already does everything I need"

Devices are getting more and more powerful







TRS-80

iPhone 3GS

iPhone 5

Devices are getting more and more powerful



Devices are getting more and more powerful



Your use cases haven't kept up

You do the same things you did 5 years ago, just bigger and faster

> The current OS designs only support the current use cases

> The OS must provide for use cases that can take advantage of the exponential growth in hardware

You gotta play to win

Mobile has changed the way people approach and use computers

> Mobile devices now outnumber desktops and laptops

> The future of computing will combine PC and mobile use cases

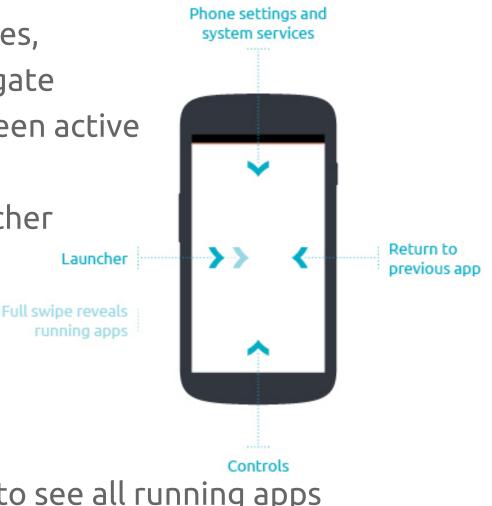
Why would users want Ubuntu?

A new kind of phone



Innovative, easy to use interface

- Simple and intuitive gestures, use the four edges to navigate
- > Right edge to switch between active apps
- > Left edge reveals the launcher to quickstart your apps
- > Top edge for system indicators and messaging
- > Bottom edge for in-app controls
- > Tip: full right-to-left swipe to see all running apps



Your content is king

- > Unity stays out of the way of your apps
- The Header component moves out of the way when you scroll down, but reappears immediately when you scroll back up
- > The Bottom Edge allows apps to make innovative features and controls easily accessible



Customization without Fragmentation



Ubuntu is designed **to allow for OEM and Operator differentiation,** at the default service layer, without fragmentation



3

Ubuntu enables partners to **build their own footprint on Ubuntu devices**, creating a rich core OS experience with scopes

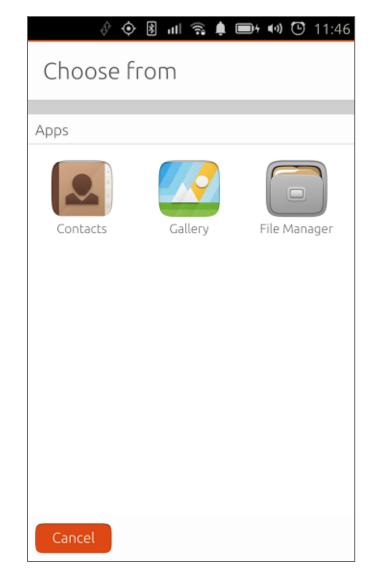
Unprecedented customization capabilities in comparison to Android and other platforms:

- user account own user identity
- default UX with scopes and default apps
- branding and theming own visual identity
- . backend integration -i.e. carrier billing



Easier, safer permissions system

- > No permission grant on app install
- > Access granted only when it's to be used
- > Content sharing via Content Hub gives granular access control
- Content selection gives implicit access permission without annoying prompts



Ready for a converged future

- > Ubuntu designed from the ground up to run across devices and form factors
- > The UI and the UX metaphors naturally adapt to different screen sizes
- > Ubuntu paves the way for a new category of superphones
- > Just dock your device to a monitor and keyboard





You can join us on the desktop today



More than 10 years building the best desktop OS



Over 3500 desktop apps already



An active and dedicated community

Why would developers want Ubuntu?

Easier development languages for apps

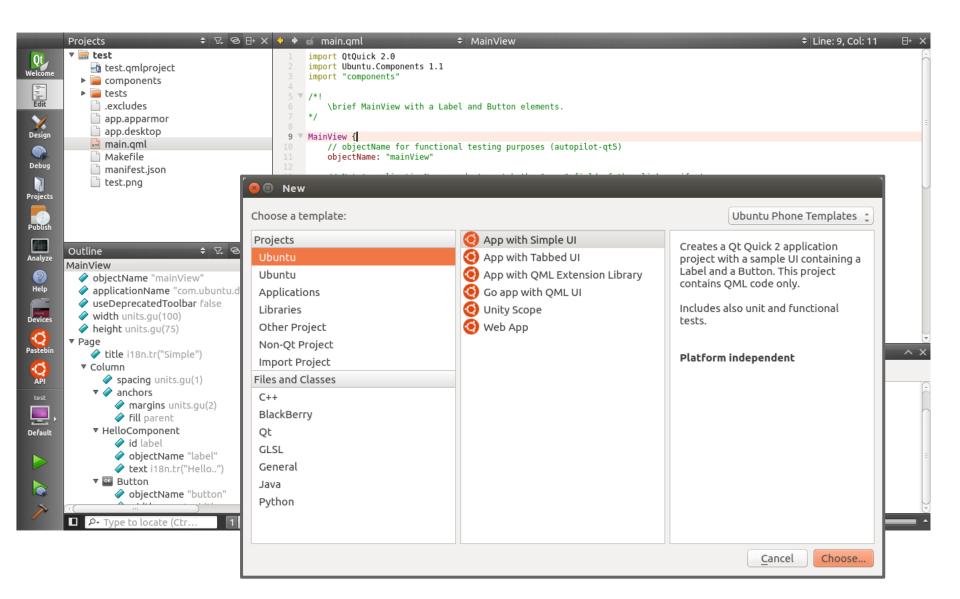
- > Use QML for easy integration or for resource-demanding applications
- > Powerful GUI toolkit and platform integration APIs

66

- > Use HTML5 to use Internet technologies or to port existing apps
- > HTML5 UI Toolkit that matches QML
- Cordova API for HTML5 platform access for device integration
- > Webapps for remote site integration



Simple, powerful development tools



Faster publishing with no human review

ubuntu [®] app de	eveloper	Apps	Scopes	Cloud	Web	Publish	Community	My Apps	Search			
Ubuntu Touch Ubuntu Desktop												
Submit your application												
Uploading Scanning General Discove Overview Feedback Stats												
Your app Upload a new application.					Genera				Edit n	name and tagline Edit description		
Changelog:			٨			Browse the XDA Developer Forums with ease and style						
(Optional)		XDA Developers App				Tagline:		Ac	Access the XDA Forums from Ubuntu			
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		• Publ	ished			Version n	umber:	0.2	New version]		
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Your application:	Drag and dr					5	Select file					

Your Content without an App



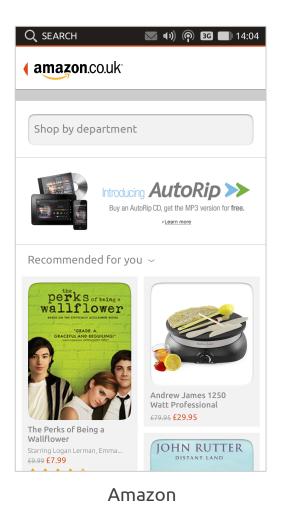
Scopes are a a UI toolkit to present local or remote content and services in the home screen

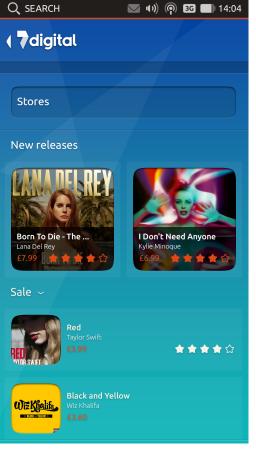
> Users customize their phone by adding scopes to their home screens

> **Discoverability** of apps, services and content from multiple sources:

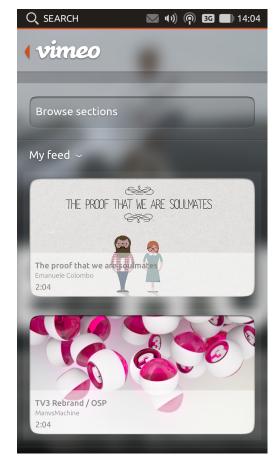
- > users can find your content alongside that shipped by the OEM and carrier
- users can focus on finding content quickly

Customize your content experience





7 digital



Vimeo

Established desktop market



25,000,000 users and still counting



7,000 downloads every day

from Windows users



Users in 240 countries Localised in over 80 languages

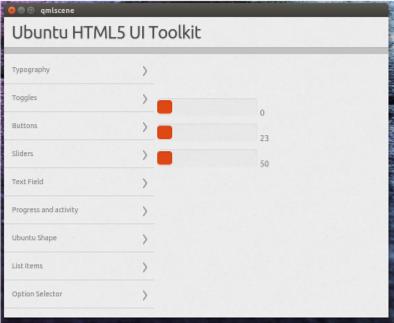
What does the Ubuntu SDK offer?

QML & HTML5 as first-class, native languages





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Toggles	>	Standard			
Buttons	>		value = 0		
Slider	>	Live Update			
Test Field	>		value = 0		
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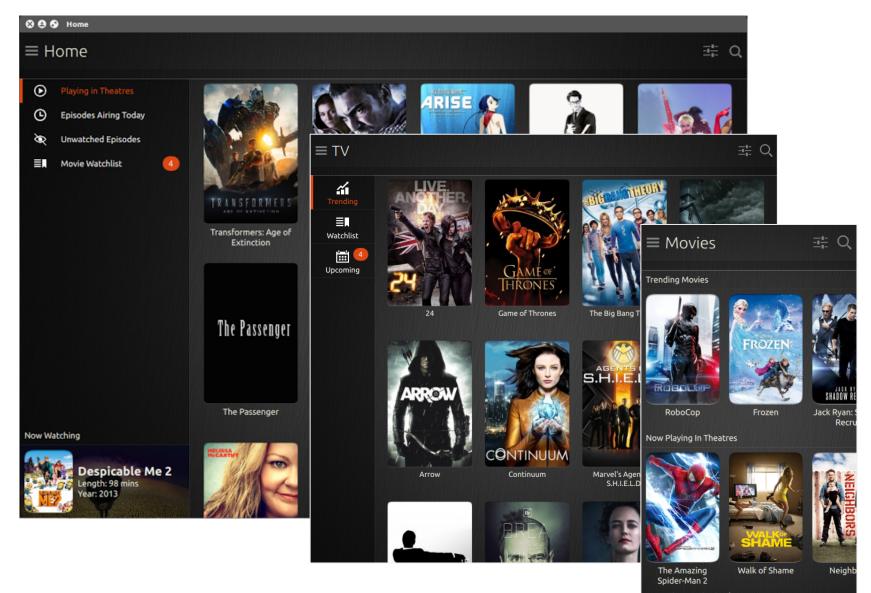
UI Toolkit scales to screen size & resolution

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Conditional layouts



Upcoming Movies in Theatres

Ubuntu Webview: more than just Webkit

> Oxide embeds Chromium browser

component in your app

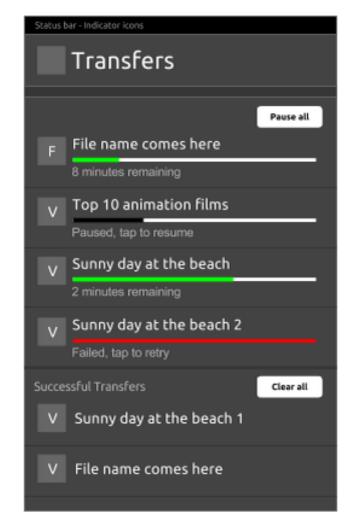
> Enabled Incognito Mode



- > Use system-wide **User Agent Overrides**
 - > Or provide your own
- > Share context between Webview instances
- > API Compatible with QtWebkit

Ubuntu Download Manager

- > Handles long-running downloads in the background
- Notifies your app when the download is complete
 - > Grants access to the files
 - > Re-opens your app if necessary
- Supports multiple simultaneous downloads



> Lets the user **pause, resume or retry** downloads

Content Hub

- > Lets you **send and receive** files or content from other apps
- > **Target** a specific app, or let the user **choose** from a list of apps that support the content type
- > Grants your app permission to access only the files the user has selected
- > Can **share content** without copying to the target app
 - > Can share links and text too

U1db: The Ubuntu One Database

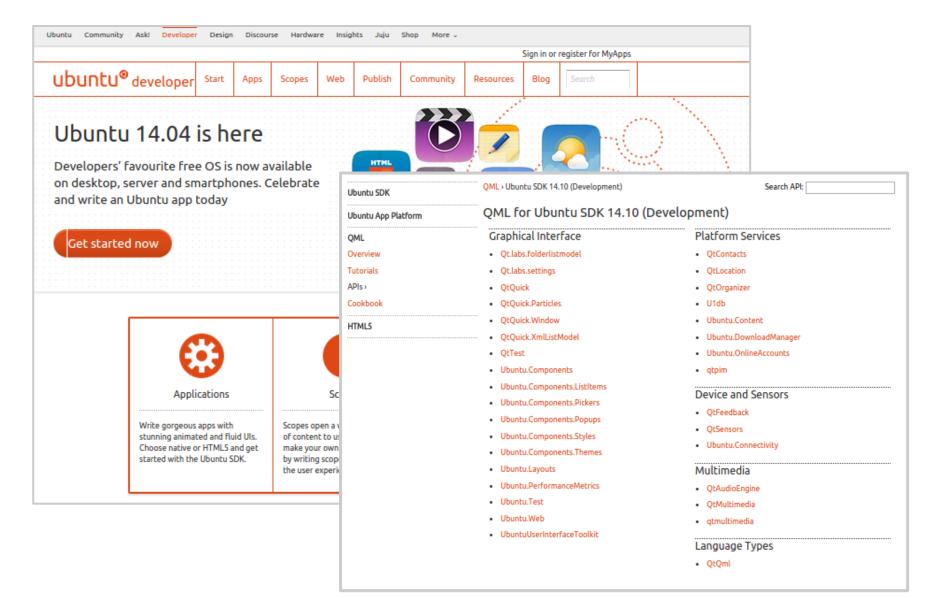
- > Provides **schema-less** (NoSQL) database storage
- > Apps can have **multiple** database files
- > Simple **index** definition for fast queries
- > Integrates easily with Qt components
- > Provides **device syncing** ability out of the box
 - > Not part of the U1 File Sync that was discontinued

Online Accounts

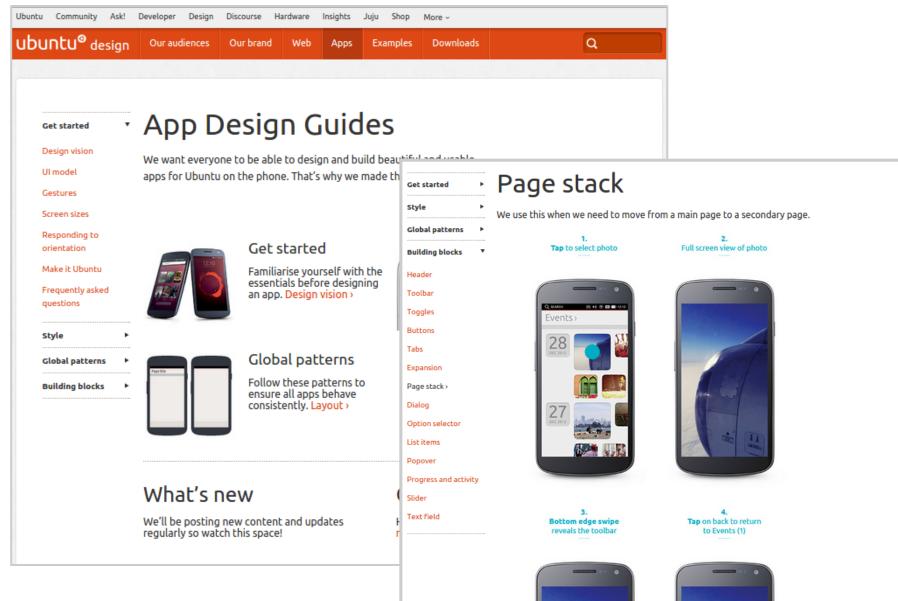
- > Stores user **credentials** in a secure, centralized place
- > Gives **access** to multiple apps
 - > User can choose which apps can access which accounts
- Includes providers for Google, Facebook, Twitter and Ubuntu One
- > Apps can install their own Account Provider for other services

Where do I find more developer resources?

Ubuntu Developer Portal



Ubuntu Design Portal



Ask Ubuntu

Ubuntu Comr	nunity <mark>Ask!</mark> Developer Design Disco	urse Hardware Insights	Juju Shop Mo	ore -	
StackExcl		3,83	31 📌 4 🥷 19	review help ▼	Q [application-development]
askubu	Cluestions Tags Users E	Badges Unanswered			Ask Question
Tagged Q	uestions	INFO NEWEST FREQUE	NT VOTES ACTIVE	UNANSWERED	235 frequent questions tagged application-development about »
	ations for Ubuntu (including Ubuntu Touch) and er. This covers both open source and commerci		on submission proces	s to the Ubuntu	
	improve tag wiki top users synonyms				Hot Meta Posts
59 votes answers 4k views	How to get my software into Ubur As a developer of free software, I want to get for packaging? Or should I create a package m application-development packaging	my application into Ubuntu. S	 asked Dec 6 '10		 Improve my question further in askubuntu Supercharge ROOMBA — again! Migration of tags (live-cd, livedvd) What should we do about XBMC's new name?
61 votes 7 answers 33k views 16 votes 2	What is the best way to develop a I want to write applications for Ubuntu. I do n trying to learn Python right now. What do you application-development How can I get started with develop I am interested in trying the new Ubuntu for per- Ubuntu. Impressed by the Ubuntu Touch prev	ot know much about program u think is the best way to devel ping apps for Ubuntu T phones OS development. (I am	ming but I want develo op apps community wi 10 revs, 7 user User ouch? [closed] not an Ubuntu develo g how to	iki rs 59% oper, I am new to	is it problematic to own and use a Swiss Gear bag?
answers	application-development ubuntu-touch		asked Jan 10'1		0 2000/00/00/00/00/00/00/00/00/00/00/00/00
5k views			183 🦷		Related Tags

Online Communities



6,300 Members 13,000 Followers

43,000 Likes <u>facebook.com/ubuntuappdev</u>

freenode

#ubuntu-app-devel
#ubuntu-touch

ubuntu-app-devel@lists.ubuntu.com ubuntu-phone@lists.lists.launchpad.net



What do I do next?

Get the Ubuntu SDK

http://developer.ubuntu.com/start/ubuntu-sdk/installing-the-sdk/

ubuntu [®] developer	Start	Apps	Scopes	Web	Publish	Community	Resources	Blog	Search	
Ubuntu SDK Ubuntu for Devices				1			I		I	
Installing the S	SDK				Projects	js index.html #tmlSapp.desktop	- Qt Creater : © ⊗ ⊕ ×			
Get started writing Ubunt installing the Ubuntu SDK		s and S	copes by	/	E e myse e e e e e e e e e e e e e e e e e e e	ope-scope AskeLists.txt ta				
Ubuntu SDK Installing the SDK > Using Device Kits Ubuntu for Devices	alling the SDK > The Ubuntu SDK is available for Ubuntu 14.04 (Trusty) onwards. Adding the SDK Release PPA									
	\$ sudo add-apt-repository ppa:ubuntu-sdk-team/ppa Installing the Ubuntu SDK Install as follows:									
	c) Ubuntu, shoul	d ensure a	ll installed packages							
	\$ sudo	apt-get (update && su	udo apt-ge	et dist-upgra	ade				

Write your first app!

http://developer.ubuntu.com/apps/qml/tutorial/building_your_first_qml_app/

ubuntu [®] developer	Start App	ps Scopes	Web	Publish	Community	Resources	Blog	Search			
Ubuntu SDK Ubuntu App Platform	QML HTML5	i			•						
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Building your	first Q	ML ap	р								
Ubuntu SDK	By D	avid Planella (code by t	the SDK Tea	im)						
Ubuntu App Platform	In this recipe y	ou will learn how	/ to write a	a currency co	nverter app for Ut	ountu on the pho	one. You w	vill be using seve	ral		
QML T	components from the Ubuntu QML toolkit: i18n, units, ItemStyle for theming, Label, ActivityIndicator, Popover, Button, TextField, ListItems.Header and ListItems.Standard The application will show you how to use the QML declarative language to create a functional user interface and its										
Overview											
Tutorials	logic, and to co	logic, and to communicate through the network and fetch data from a remote source on the Internet.									
APIs	In practical terms, you will be writing an application that performs currency conversion between two selected currencies. The rates are fetched using the European Central Bank's API. Currencies can be changed by pressing the										
Cookbook		electing the curre	-								
HTML5	Require	ments									
	 Ubuntu 14. 	04 or later – get	Ubuntu								
	 The Ubuntu 	u SDK – install th	e Ubuntu S	5DK							
	The too	ls									
					kit preview and it w of the tools you		ather than	on the tools.			
	Developme	nt host									
	Ubuntu 12.04	(or later) will be	used as th	e host machi	ne for developme	nt. At the end of	this recip	e vou will have			

Write your first scope!

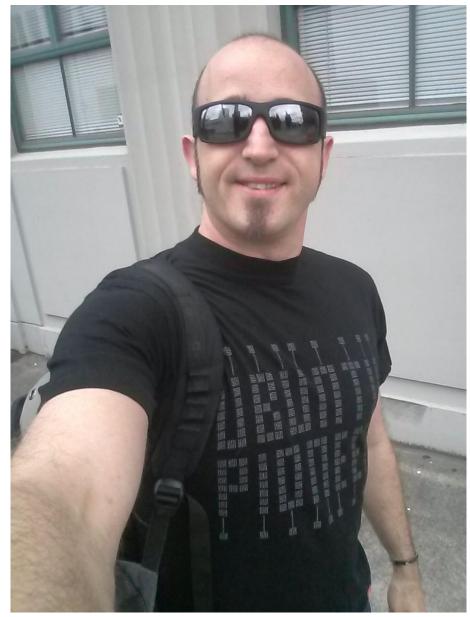
http://developer.ubuntu.com/scopes/tutorials/unity-8-scope-example-openclipart/

ubuntu [®] developer	Start	Apps	Scopes	Web	Publish	Community	Resources	Blog	Search		
Unity 8 Scope	Exa	mpl	e: Of	ben	clipa	rt					
	Scop	e Exa	mple: (Openo	clipart						
Overview Guides	Here you can get started writing Unity 8 Scopes. We provide an example that searches openclipart.com for images with a query string and implements categorised search results and a set of preview widgets allocated to two different layouts for use in different display situations (narrow and wide).										
Tutorials	We provide the source code and discuss all the key points below.										
API	Note: Your development system does not need to run Unity 8 on the desktop to run the example scope.										
	Befo	re ge	tting st	ng started							
	You may want to read the Unity 8 Scopes Guide first. This provides an overview of key concepts you need to understand when developing scopes, including the flow of events, the scope query and its generated results, the preview and its widgets and layouts, and more.										
	Install the Ubuntu SDK										
	See Ubuntu SDK Tutorials for a quick tutorial. You can now create Unity 8 C++ scope projects in the SDK with the Unity Scope Template project type.										
	Get the example scope source branch										
	Ensure the bzr package is installed.										
	\$ sudo apt-get install bzr										
	lf you ar	e new to b	zr, you need	to configu	ire bzr:						

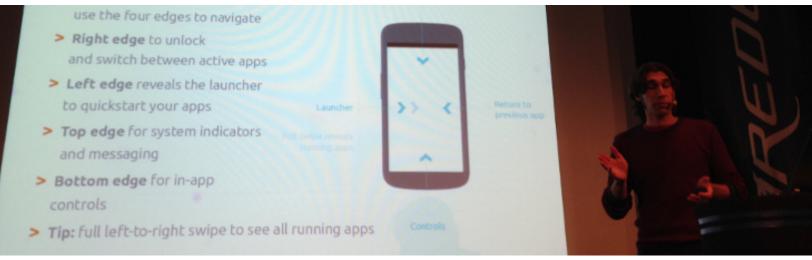
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Featured on: <u>developer.ubuntu.</u> <u>com/pioneers/</u>

- Free limited-edition Ubuntu Pioneers t-shirt
- Open to the first 200 developers who publish an app or scope
- > Only about 30 slots left!



App Development Schools



> Teach Ubuntu app development to others:

- > Local Ubuntu Community (LoCo) teams
- > LUGs and other FOSS groups
- > Schools or organizations

> We provide the instruction materials & sample code http://developer.ubuntu.com/resources/app-dev-training/

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