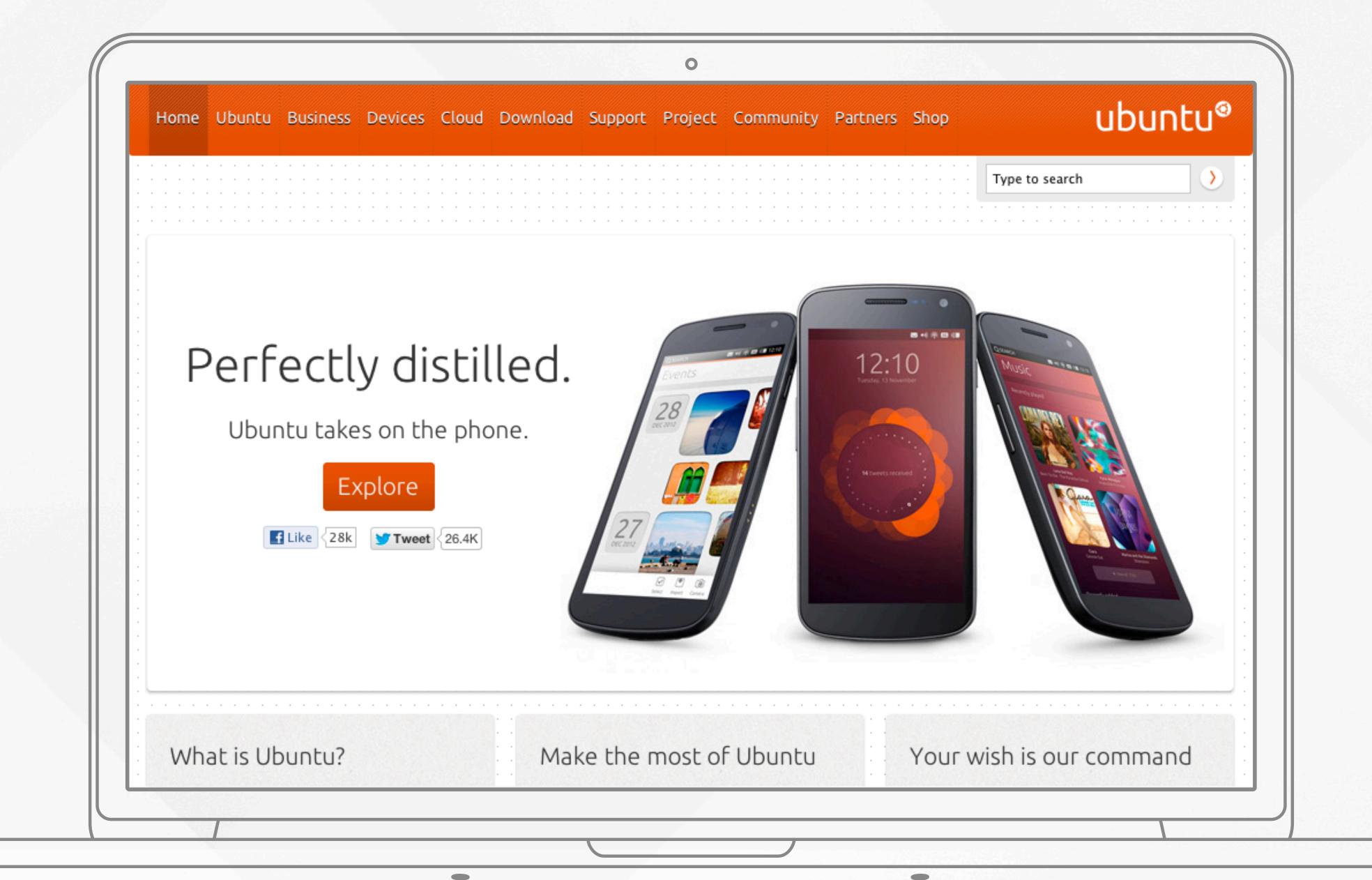
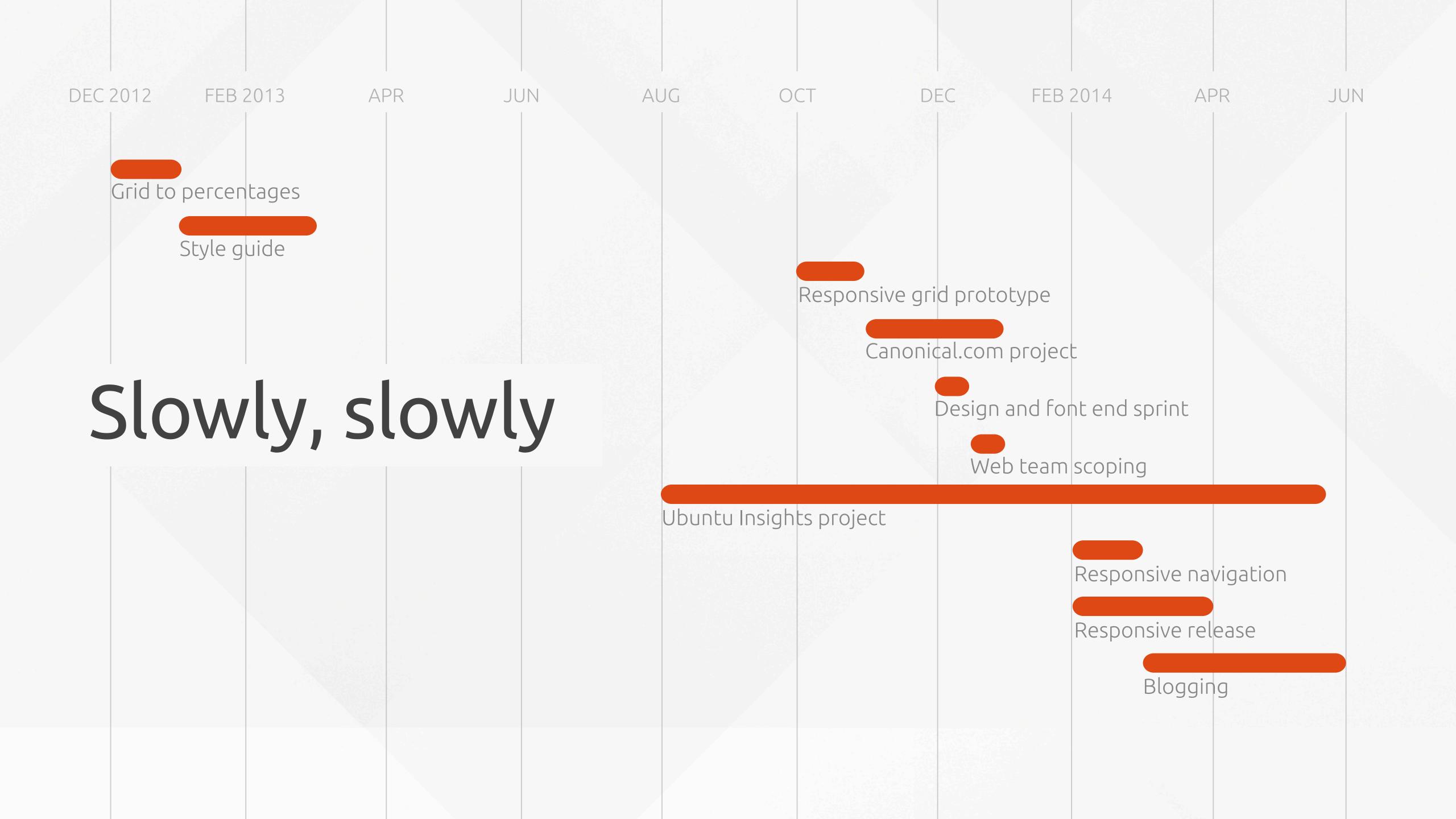
# Realistic responsive design

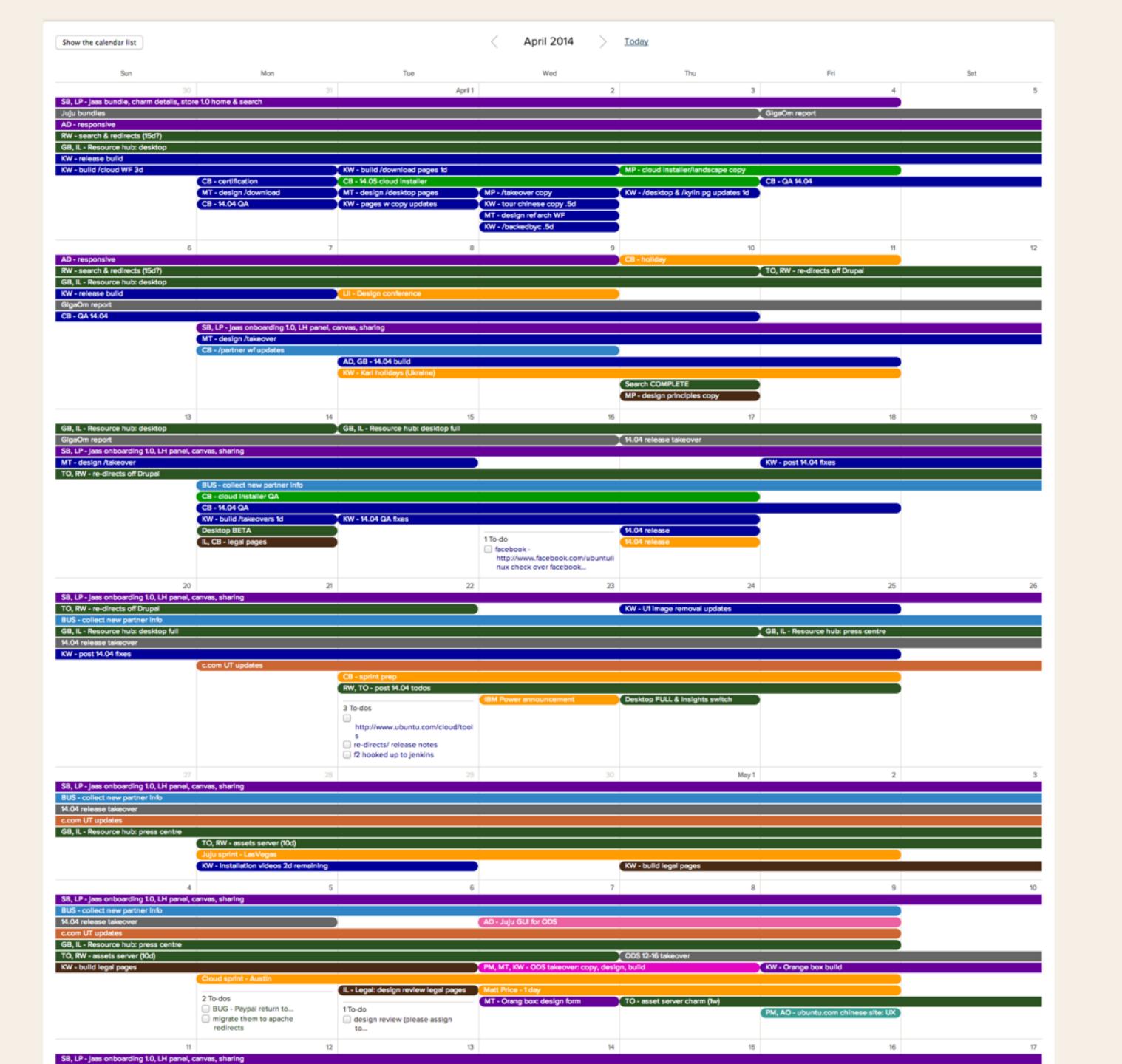


### 1 It's not about you

2 Make a plan

Slowly, slowly List your constraints One thing at a time Go shopping!





### List your constraints

- √ Same content
- √ Same information architecture
- √ Same visual direction
- Existing large screen design

# One thing at a time

### To do:

- 1. Create style guide
- 2. Clean up CSS
- 3. Convert grid to percentages
- 4. Create responsive grid prototype
- 5. Page-by-page estimate
- 6. Update image assets
- 7. Prototype responsive navigation
- 8. Update style guide document

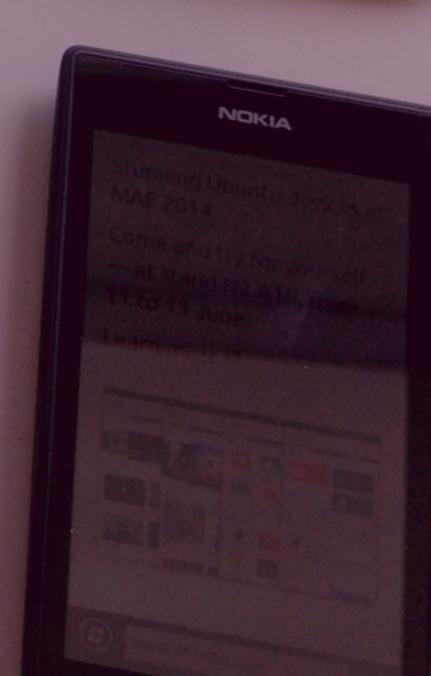












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17%

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3%

APPLE IPAD

APPLE IPHONE GOOGLE NEXUS 7 LG NEXUS 5

2%

2%

1%

GOOGLE NEXUS 4 SAMSUNG GALAXY S3

SAMSUNG GALAXY S4

• • •

### 3 Evolve



### Reuse

# 

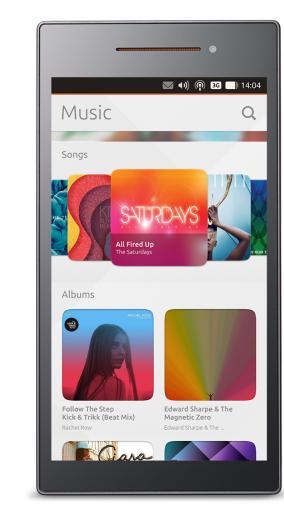


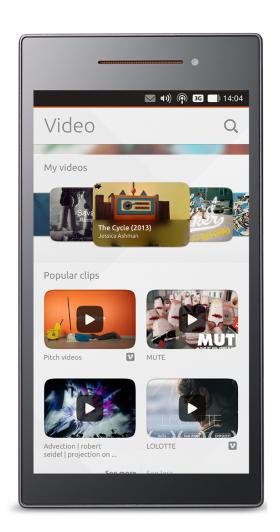






























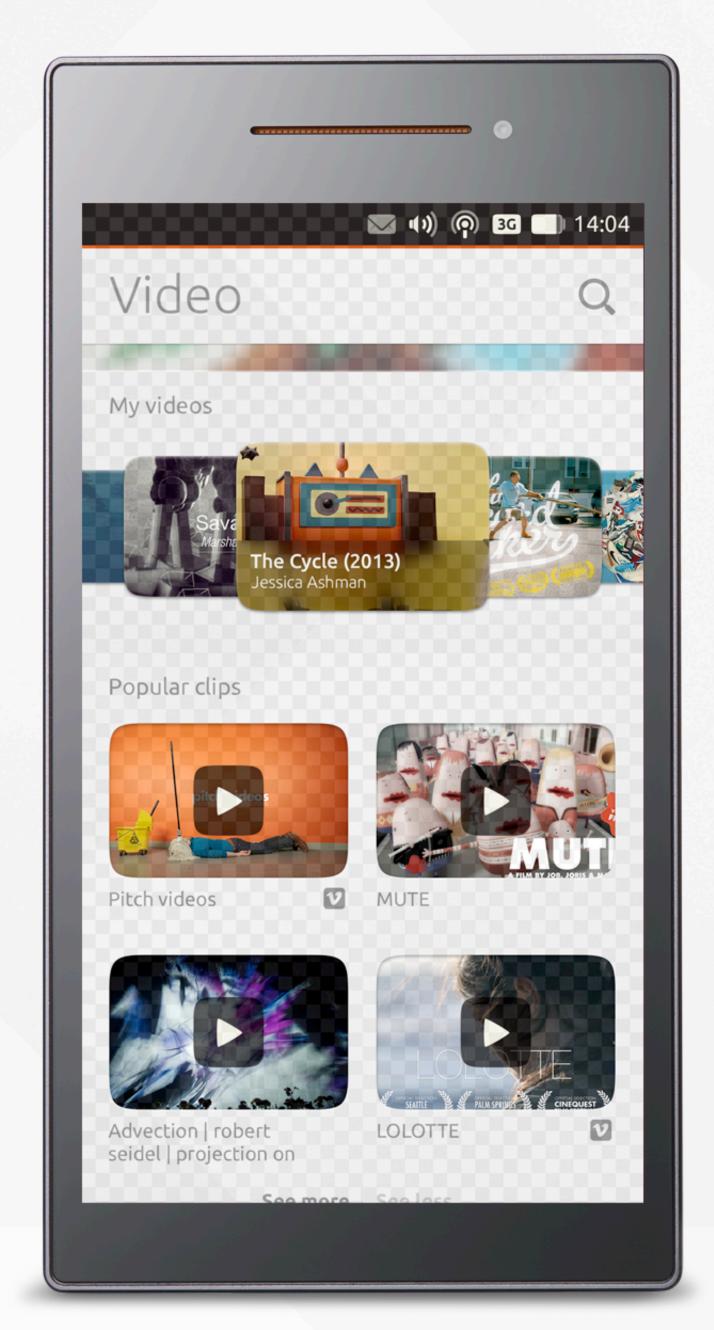


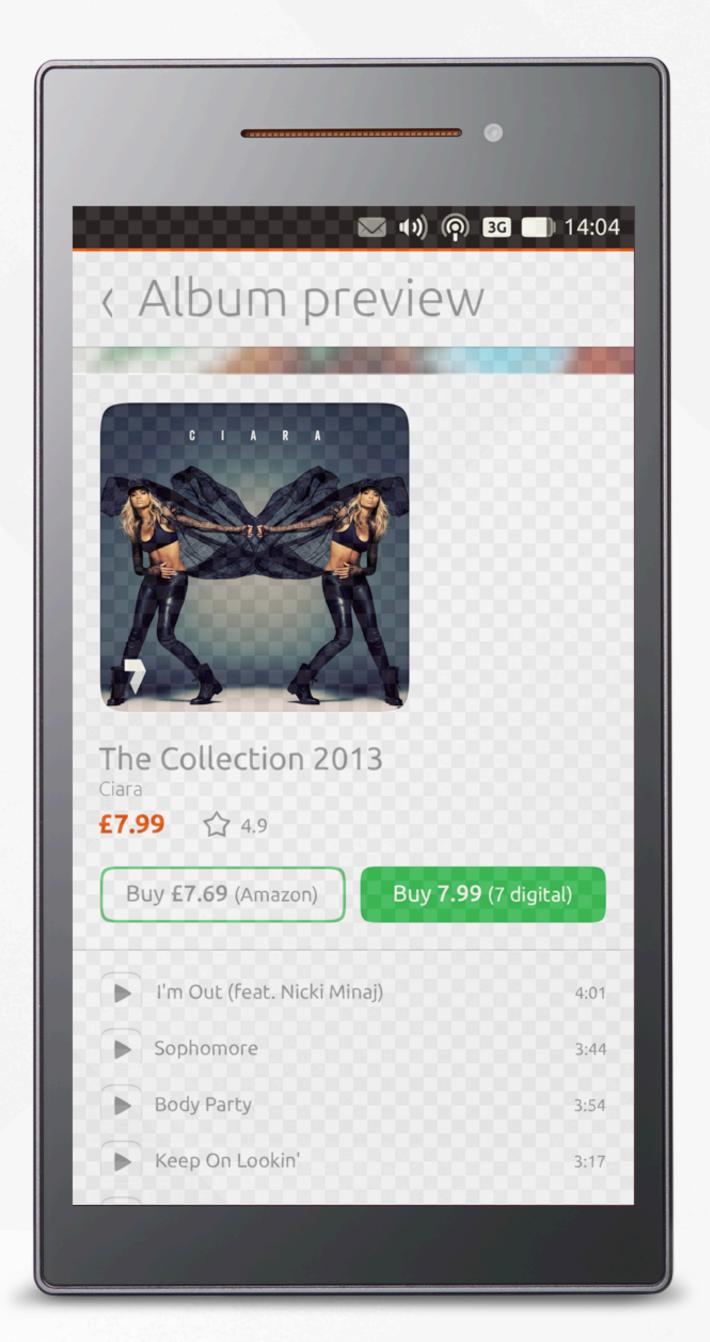


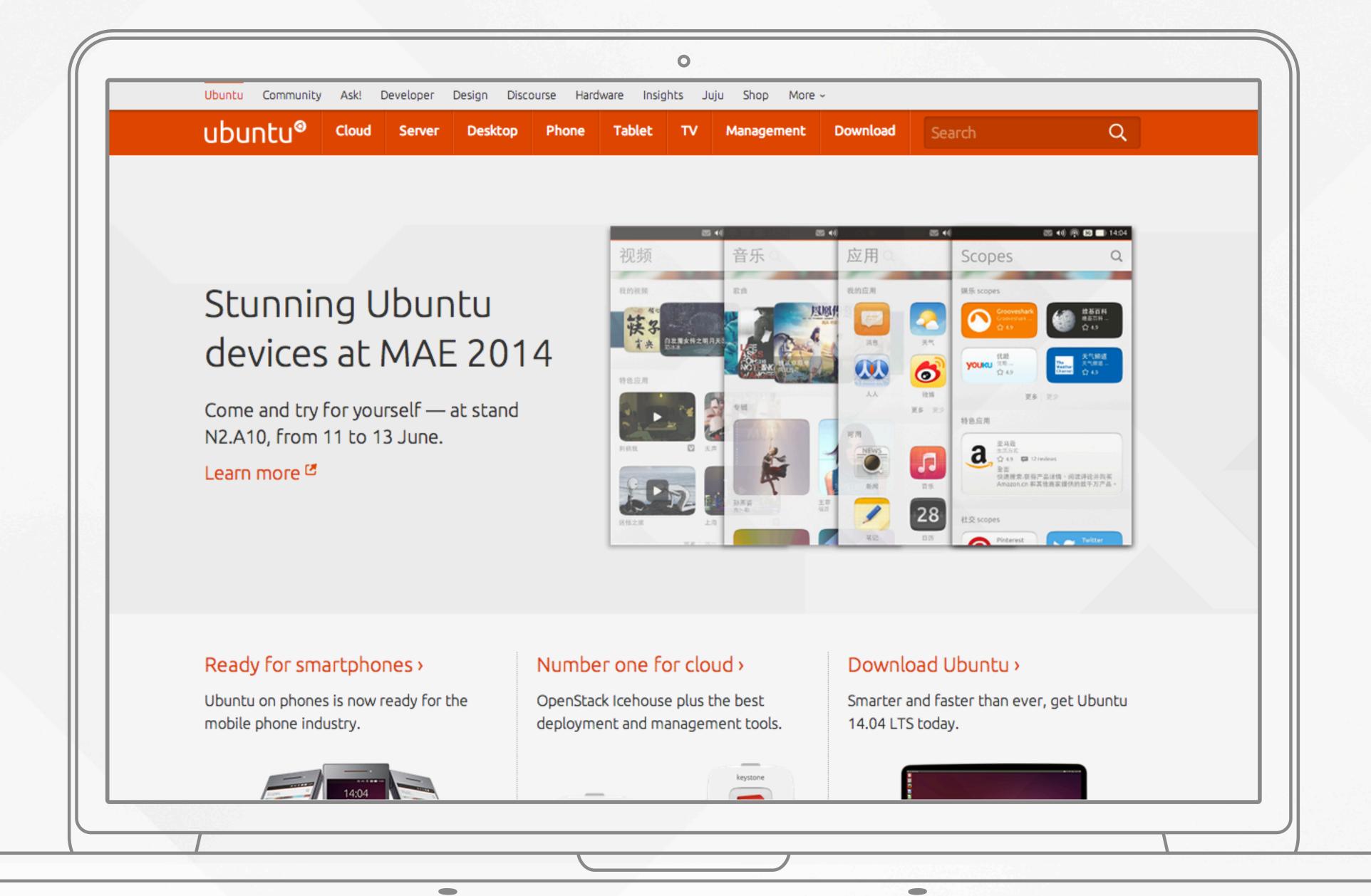


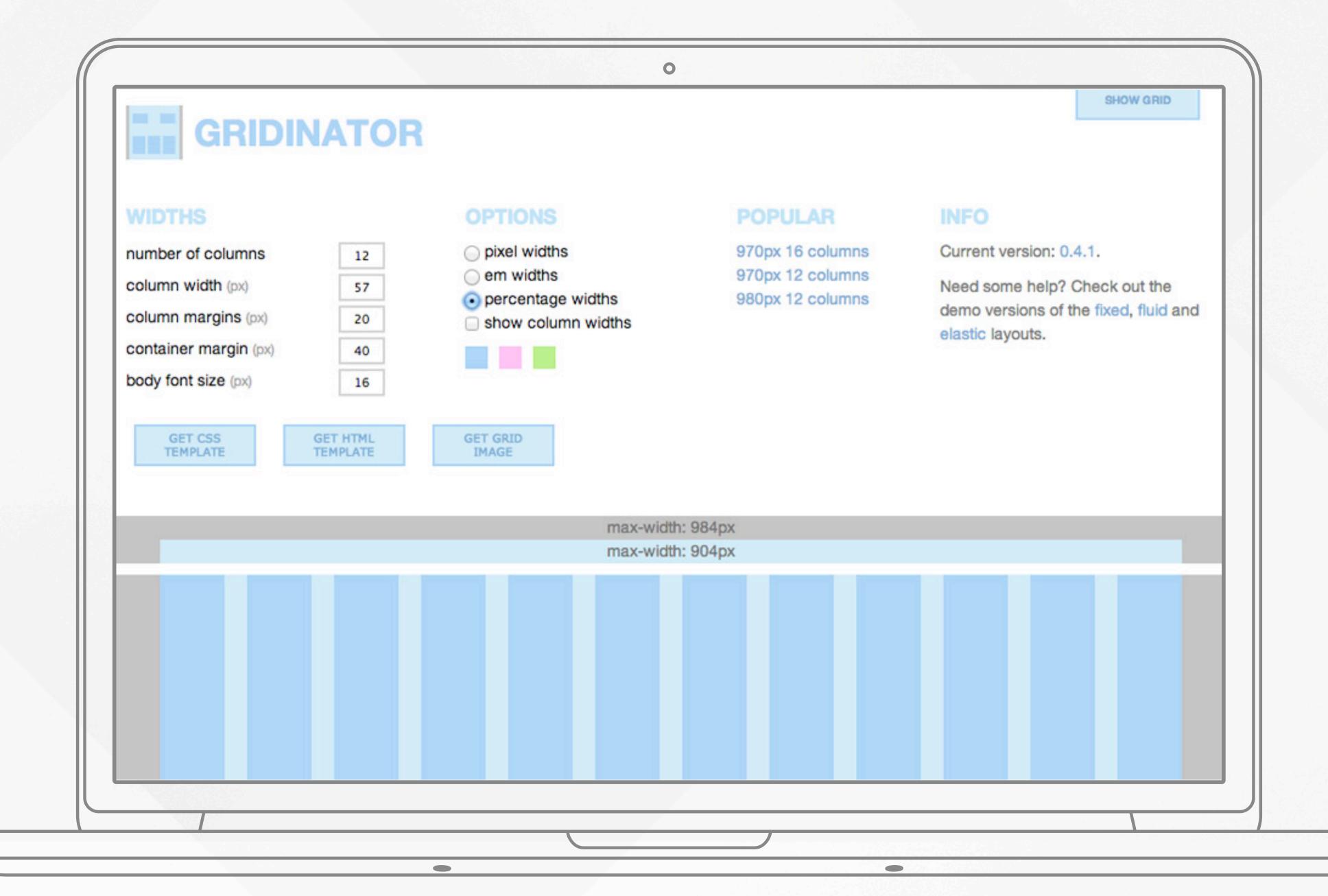


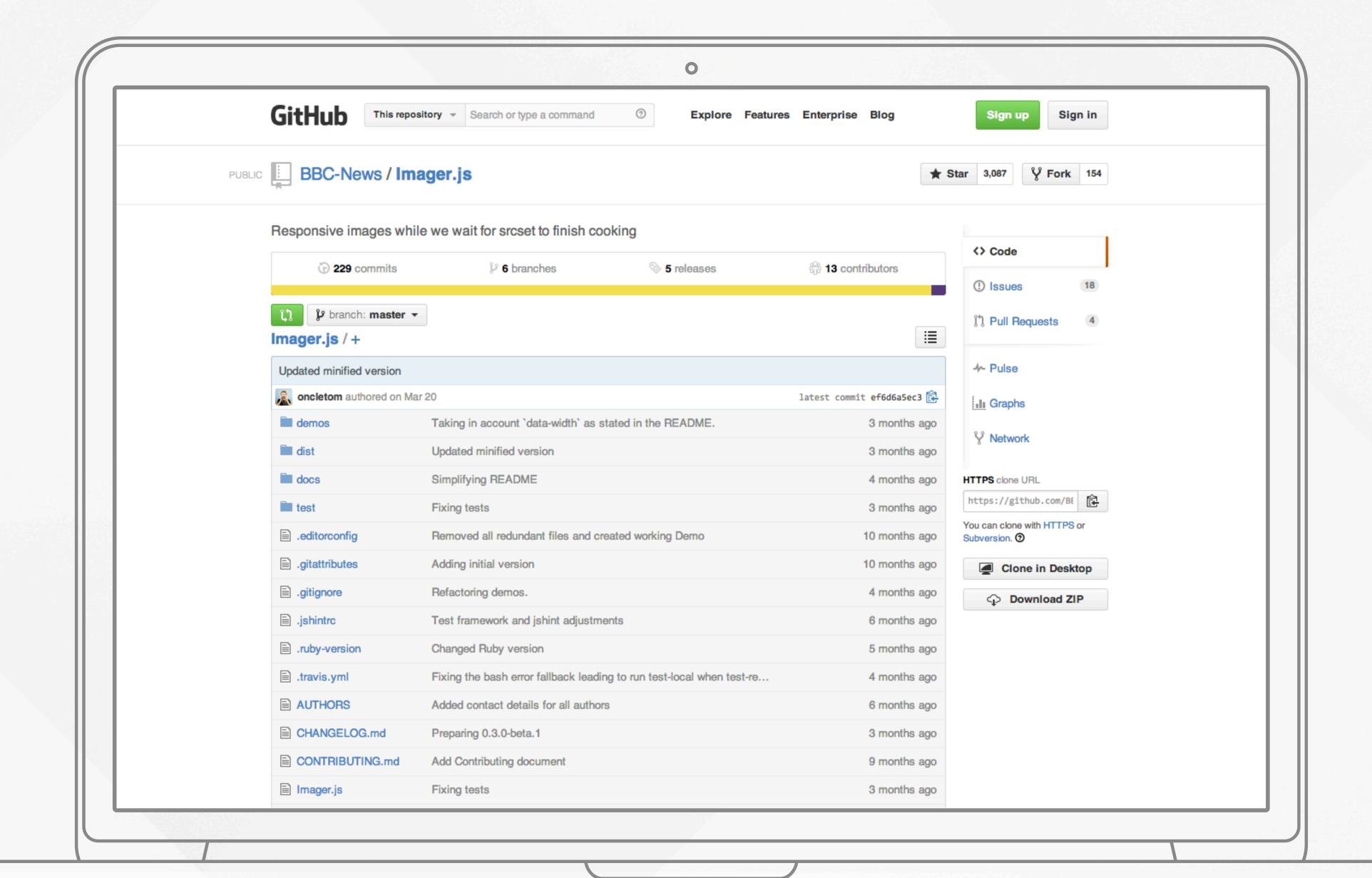












0

Bootstrap Getting started CSS Components JavaScript Customize Expo Blog

### CSS

Global CSS settings, fundamental HTML elements styled and enhanced with extensible classes, and an advanced grid system.

#### **Overview**

Get the lowdown on the key pieces of Bootstrap's infrastructure, including our approach to better, faster, stronger web development.

#### HTML5 doctype

Bootstrap makes use of certain HTML elements and CSS properties that require the use of the HTML5 doctype. Include it at the beginning of all your projects.

```
<!DOCTYPE html>
<html lang="en">

...
</html>
```

#### Mobile first

With Bootstrap 2, we added optional mobile friendly styles for key aspects of the framework. With Bootstrap 3, we've rewritten the project to be mobile friendly from the start. Instead of adding on optional mobile styles, they're baked right into the core. In fact, **Bootstrap is mobile first**. Mobile first styles can be found throughout the entire library instead of in separate files.

To ensure proper rendering and touch zooming, add the viewport meta tag to your <head>.

Overview

Grid system

Typography

Code

Tables Forms

Buttons

Images

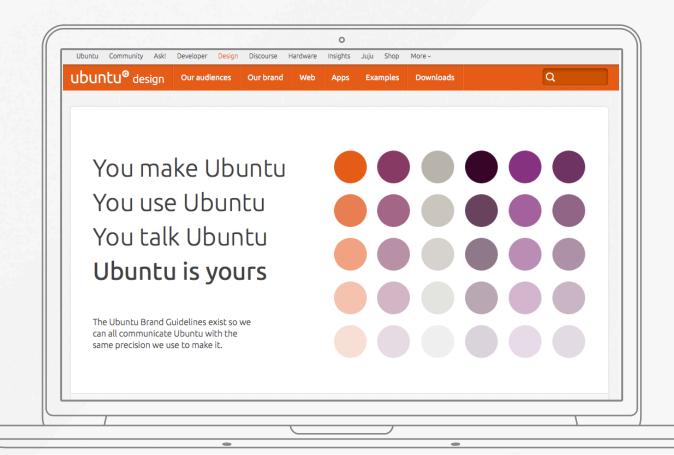
Helper classes

Responsive utilities

Using Less Using Sass

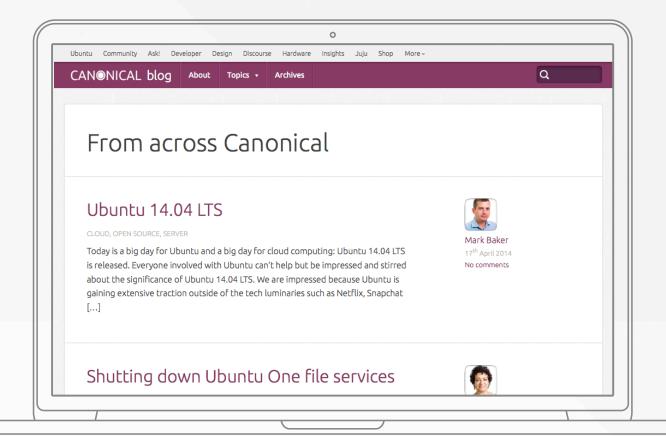
Back to top

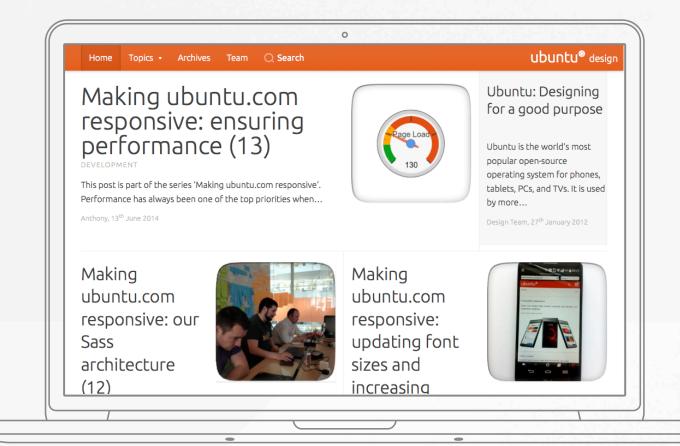


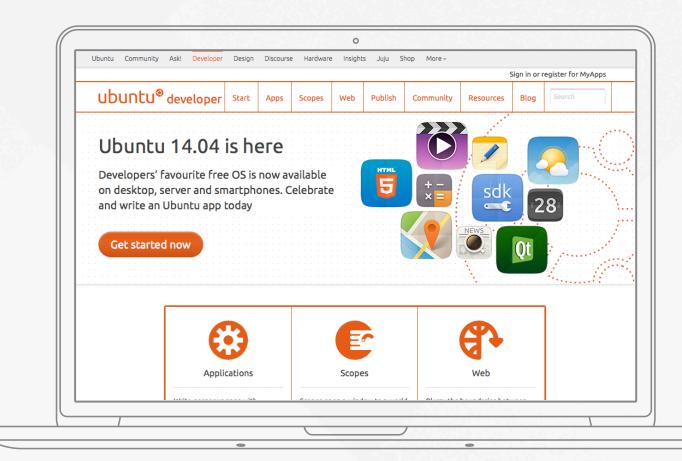


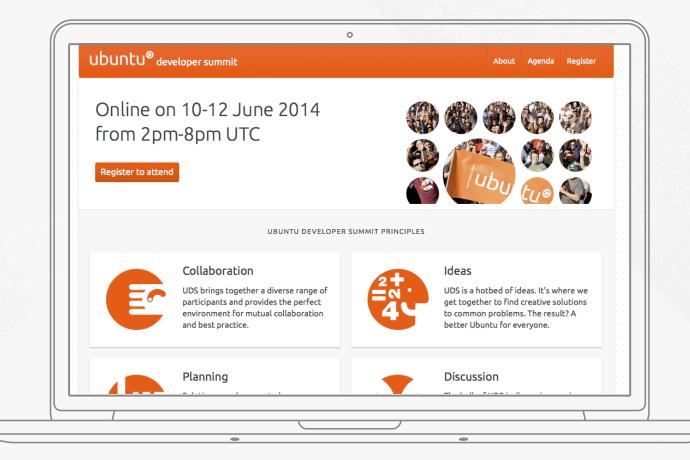


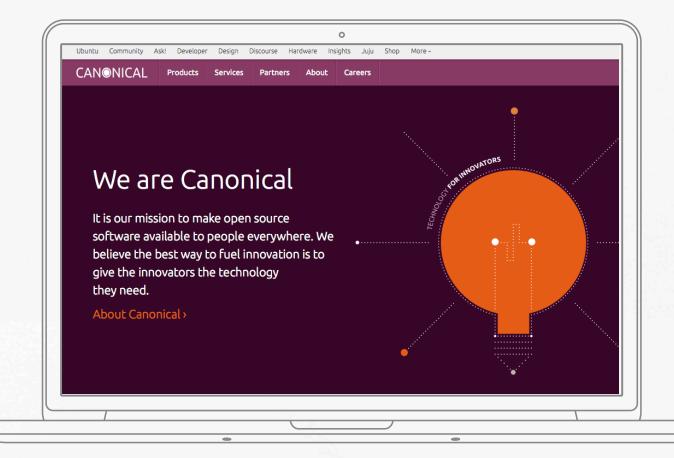
### Standardise across sites









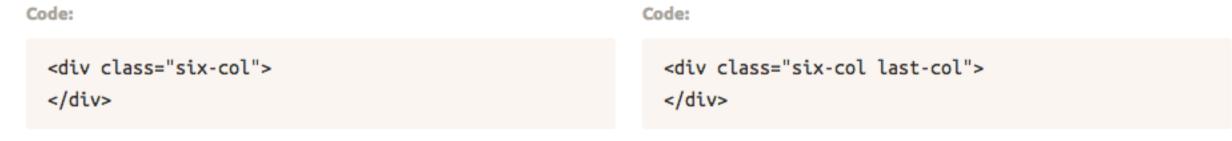


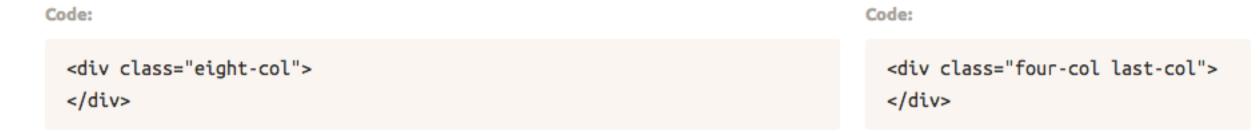
#### 1-column layout

```
Code:
```

```
<div class="twelve-col">
</div>
```

#### 2-column layouts

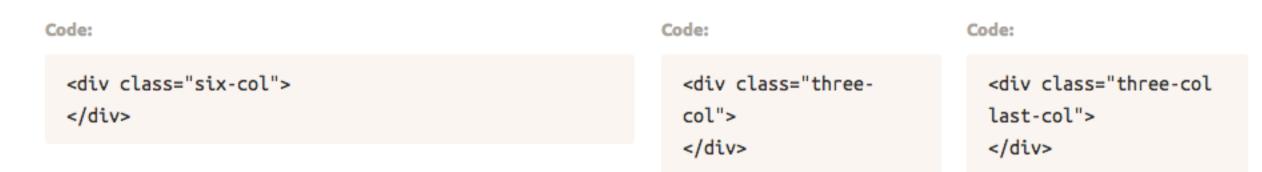






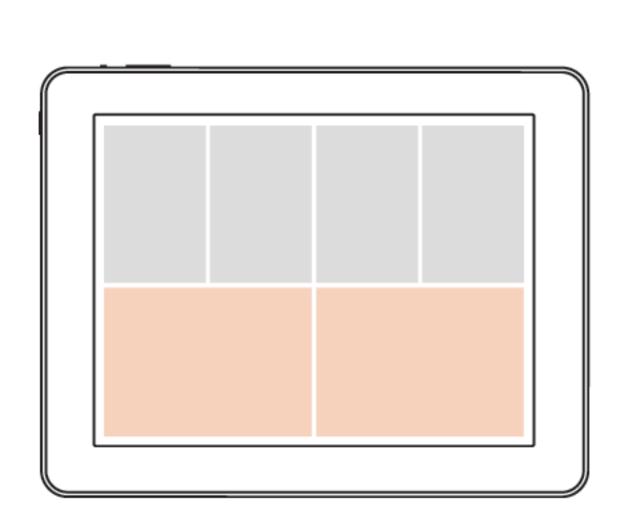
#### 3-column layouts

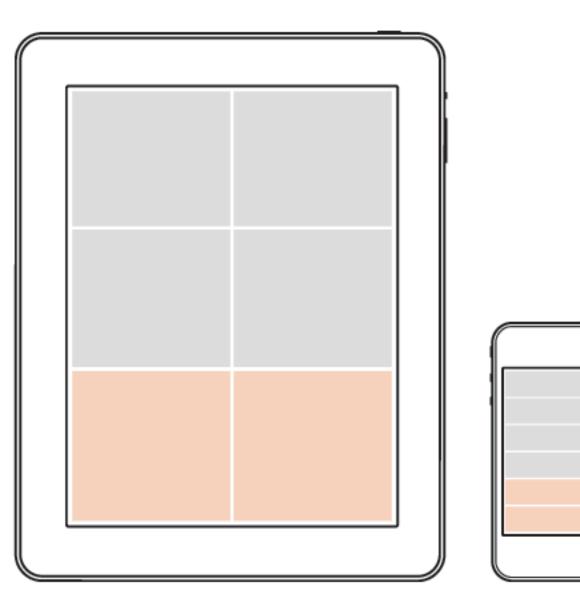
Code:	Code:	Code:
<div class="four-col"> </div>	<div class="four-col"> </div>	<pre><div class="four-col last-col"> </div></pre>



#### 4-column layout

Code:		Code:	Code:	Code:	
	<pre><div class="three-&lt;/pre&gt;&lt;/td&gt;&lt;td&gt;&lt;div class=" td="" three-<=""><td><div class="three-&lt;/td&gt;&lt;td&gt;&lt;div class=" td="" three-col<=""></div></td></div></pre>	<div class="three-&lt;/td&gt;&lt;td&gt;&lt;div class=" td="" three-col<=""></div>			
	col">	col">	col">	last col">	





List with dividers	List with dividers and ticks	List with dividers and ticks		
Example:	Example:	Example:		
First item	First item	First item		
Second item	Second item	Second item		
Third item	Third item	Third item		

### h1. Ubuntu Light 45px/1.3

### h2. Ubuntu Light 32px/1.3

h3. Ubuntu Light 23px/1.3

h4. Ubuntu Light 20px/1.3

#### h5. Ubuntu Regular Bold 16px/1.3

H6. UBUNTU REGULAR BOLD 13PX UPPERCASE/1.3

p. Ubuntu Light 16px/1.5

#### Resource title >

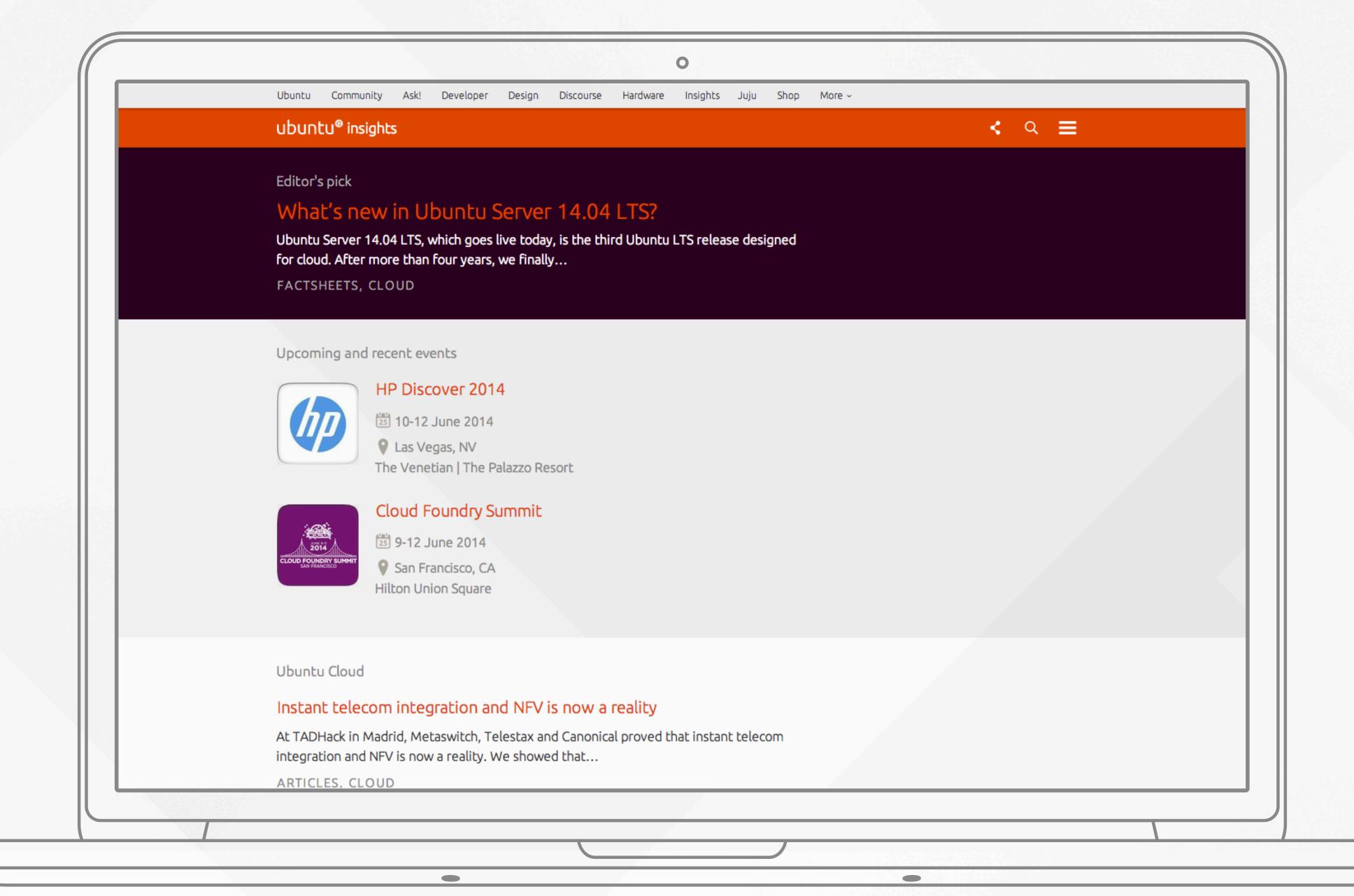
Short description of why the resource is relevant.

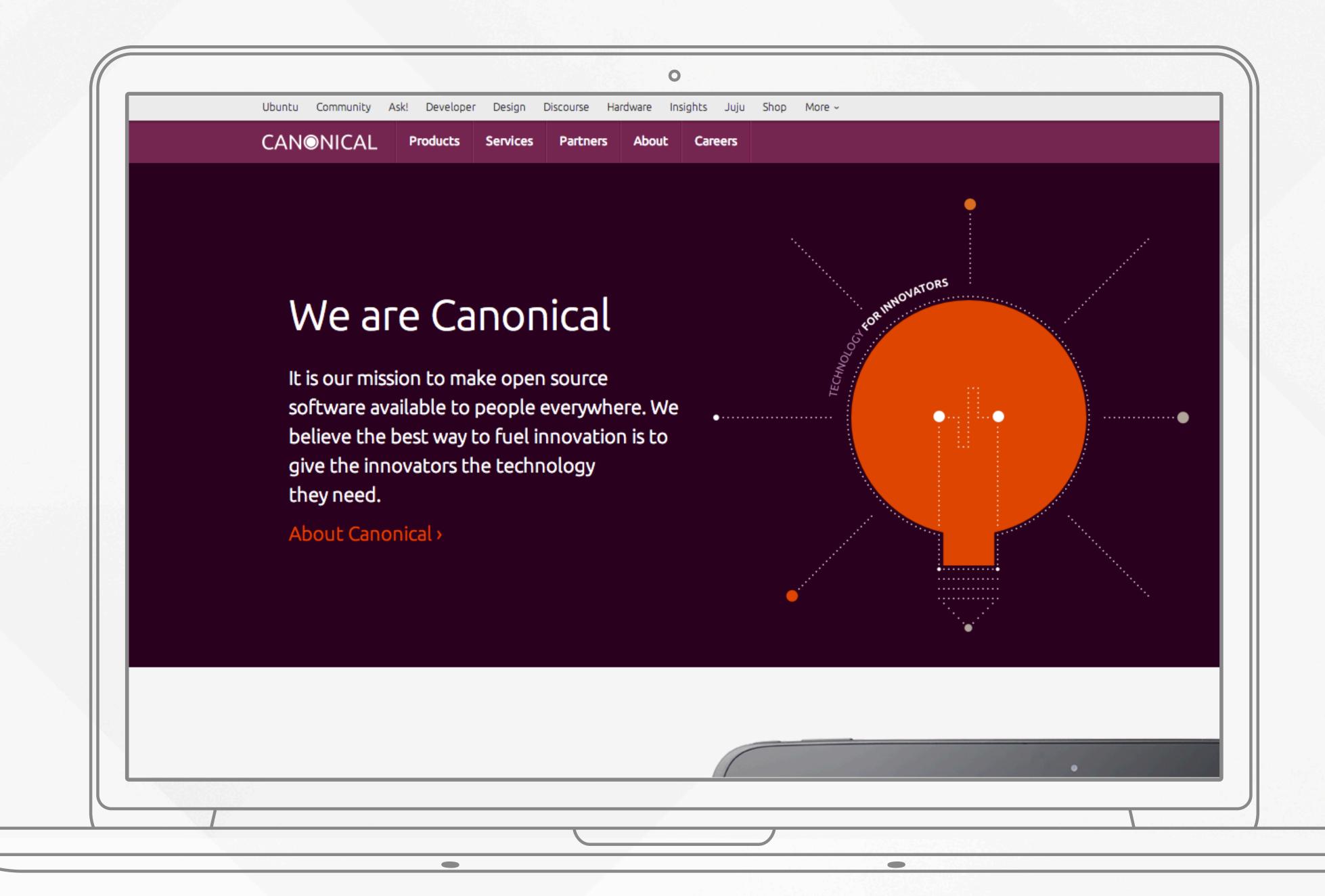
**■** E-BOOK

"Ubuntu is an ancient African word meaning 'humanity to others'."

Canonical

# 4 Experiment





Inayaili d.	SS. LG. /tv/features-and-specs - landscape = No, but I think at some point, later, we should rethink this row at SS.	Apr 15 1	Inayaili d. MS /cloud/ecosystem: hero has no bottom Refreshed and still see this.	Apr 13 1 Inayaili d.	/cloud-tools/juju: title tag should be Ubuntu Yes, I had the link wrong in the to-do. In /cloud-	Apr 3 2	Matt T. /tablet operators an folder:- https://www.d
Peter M.	MS /desktop: 3 boxes below hero not equal height - added words	Apr 15 2	Inayaili d. MS context. footer: can we hide pictograms at MS? - Was this done cross-site?	Apr 13 1 Inayaili d.	tools/jumpstart the word cloud should be titlecase: Ubuntu Cloud Jumpstart   Cloud   Ubuntu  MS desktop/developers and /server and I'll need to check tomorrow, it looks correct, it wasn't	Apr 2 2	Anthony D. SS third level nav ha
📦 Inayaili d.	MS landscape/features page: have a look at the • Same as top/left/right	Apr 15 3	Inayaili d. /cloud/ecosystem: the title of the OIL page Peter: Could we remove the "The" from this	Apr 13 1	touching the edges.	Арт 2	Anthony D. games-and-apps: SV
Inayaili d.	MS iOS - /cloud/management - The bug is: • Second table should be full width too, compare to LS.	Apr 15 2	page's title in the the h1 and the navigation?  Anthony D. Android Gingerbread: the cookie message seems Its now at the top but under the nav bar	Apr 11 2	MS partners section: showing a horiz. bar - The entire partners section and many other pages on the site show a horizontal (scroll)bar.	Apr 2 3	working on this one?  Anthony D. /cloud/cloud-tools/ju
Inayaili d.	MS iOS - /tablet - Also: • Missing top padding in "The system at your service" • Missing top padding in "Celebrate content not controls"	Apr 15 2	though. Need to fix.    Inayaili d.   SS and MS: there is a horizontal (scroll)bar • tablet > app ecosystem	Apr 11 4	/partners/hp/moonshot: "Ubuntu, the hyperscale Yes, unless they start a sentence. In that page I see: • HP Moonshot and Ubuntu work together to disrupt the Hyperscale market • Ubuntu	Apr 2 2	Image: http://assets.u  Anthony D. Open navigation arr
Inayaili d.	SS LGphone. /management - portrait. expanded Issue begins at 332px.	Apr 15 1	Inayaili d. MS: when I test the navigation in Firefox RWD What happens now is that there is a point	Apr 11 2 Inayaili d.	for print ubuntu logo not being referred to in Can't we move the print <img/> tag somewhere else in the code?	Apr 2 2	can let me know whe
Inayaili d.	/desktop/ubuntu-kylin: Unity 8 preview row has Yes.	Apr 15 2	when the search box is out of view, cropped.	Inavaili d.	is the logo correct in the code? - The logo is for print. Adding a to-do for Ant, as it's not doing	Apr 1 2	Anthony D. /ua-servicedescription
Inayaili d.	MS /desktop all features pages: the Explore It's touching edges of the screen now.	Apr 15 4	Anthony D. All sizes: /download/desktop/questions can't Its merged in now so can be tested.	Apr 10 6	what it should.		Anthony D. /tour/zh-CN: can't se
Peter M.	Check at 768px.  LS - /desktop/features - http://cl.ly/image/300k462u1G0s the image goes below the line	Apr 15 1	Matt T. /partners/dell: SVG logo - https://www.dropbox.com/home/14.04%20release/4-deliverables/ubuntu/partners/dell	Apr 8 1 Inayaili d.	SS footer: add #333333 line above Ubuntu This was above Ubuntu websites link, not above copyright info. Can you add back the shadow?	Apr 1 1	Anthony D. /phone/register: can
	MS - clicking on 'cloud' in the footer nav does should open the section I assume? or go to the	Apr 15 1	Matt T. games-and-apps: SVG steam logo? - https://www.dropbox.com/home/14.04%20release/4-deliverables/ubuntu/desktop/features/games-apps	Apr 8 1 Inayaili d.	/cloud: context footer picto is going over the Did you remove pictos in LS context. footer?	Apr 1 3	Inayaili d. /management/ubunt
	overview?	A = 1 4 5	Matt T. desktop management: top pictos SVG'ed - https://www.dropbox.com/home/14.04%20release/4-deliverables/ubuntu/desktop/management	Apr 8 2 Inayaili d.	<u>SS: when the footer links are open the divider</u> - Open Management and DOwnload at the same time: they are not aligned. Also divider lines should be full width touching edges of screen.	Apr 1 1	Inayaili d. LS: /phone/features
	MS iOS /phone/operator-oem - screenshot  MS iOS phone/ubuntu-for-android/features - screenshots	Apr 15 2	Matt T. /2012/11/dellworld: dell SVG logo - https://www.dropbox.com/home/14.04%20release/4-	Apr 8 1 Inayaili d.	LS: /phone/features A life in pictures, compare Yes.	Apr 1 3	Inayaili d. LS: /tv/commercial-i
	SS and MS third level nav: didn't we add They weren't links, they are now.	Apr 15 2	deliverables/ubuntu/2012/11/dellworld  Matt T. U4A features SS: default apps can we show maybe Yep, here you go Ant:	Apr 8 4	Second level nav SS to be open at first - It shouldn't close when you change pages, it should close when you close it once.	Apr 1 5	Anthony D. LS: /500 looking at 0 styles which are the
•	MS /phone from 769px to 853px: weird things Done	Apr 15 6	https://www.dropbox.com/home/14.04%20release/4-deliverables/ubuntu/phone/ubuntu-for-androic	494	MS /about/ubuntu-font: use LS sized image - OK. There is not enough space below the image.	Apr 1 6	Anthony D. SS: I think the space
(M)	Oll page: vendors logos should use canonical style - SS not working very well.	Apr 15 1	Inayaili d. LS: I forgot if I've added this to-do already, The explore further, sorry :D	Apr 7 4 Inayaili d.	/management: remove pictos at the top - SS	Apr 1 2	40px to 20px.
C)	MS /desktop/features/photos: Device-compatible Seem OK now.	Apr 15 2	Inayaili d. /public-cloud: is this page being worked on Should I wait a moment?	Apr 7 3	/server/hyperscale: quote needs space before Yes.	Apr 1 3	Anthony D. /cag SS: grid of icon
<b>C</b>			Inayaili d. SS navigation: is it just me, or has the Thanks.	Apr 7 6 Inayaili d.	SS u4a: the android pictogram box needs some Android icon still touching container edges.	Apr 1 1	Inayaili d. /ua-dell-tc: title "Del
C)	/cloud/openstack/ref-arch: first tab title I only see the first change.	Apr 15 1	Anthony D. HTTPS YUI server - YUI's internal ssl cdn that we can use for testing: https://yui-s.yahooapis.com/	Apr 7	MS: 4-col contextual footers are breaking, eg Let's hide the Explore further section in MS	Apr 1 1	Inayaili d. LS: /tv/features-and-
3	MS /desktop/ubuntu-kylin: Unity 8 preview row OK.	Apr 15 2	Inayaili d. MS cloud/ubuntu-openstack: there is a I mean scrollbar.	Apr 7 2	too, I've confirmed this with Ale and Peter.		Inayaili d. LS: /tv/contributors of code" section.
Anthony D	SS /desktop/ubuntu-kylin: some images need I have reworked the image positions on this page. I think we would benefit from a taller image in the "Sogou Input Method" section.	Apr 14 1	Inayaili d. SS navigation second level: eg. cloud openstack Yes, please	Apr 7 2 Anthony I	<ol> <li>MS cloud-tools/jumpstart/contact-us: the four I cant see this on FF RWD view, I'll have to check the devices in the office tomorrow.</li> </ol>	Mar 31 1	Inayaili d. <u>LS: /2013/07/press-p</u>
lnayaili d.	LS: /phone/ubuntu-for-android image in Why add Could that be an equal height column with a vertically centred image?	Mar 20 2	Tanya E. look at 'highlighting' of sites under the this is a Canonical redsign post-golive todo. see the converstation thread here - https://basecamp.com/2179997/projects/2776746-	<u> </u>	Scaffolding: are all utility classes stillno-margin-bottom	Apr 26, 2013 3	Inayaili d. /ubuntu/features: a
lnayaili d.	LS: /phone/ubuntu-for-android first divider Looks OK now.	Mar 20 2	Tanya E. <u>Guidelines responsive brainstorm</u> - Hi guys and gals, While it's all fresh in your head it makes sense to discuss updating guidelines (ie. ubuntu) to be responsive. We've broken this into Design	Jan 10	[NICE-TO-HAVE] JavaScript (Ant) + Create Ant will review how long this will take. If it takes too long, we can drop this for phase 2.	Apr 26, 2013 1	Anthony D. Standardise list-ub
🚺 Inayaili d.	LS: /cloud/labs Explore further looks funny - It used to be too narrow, looks fine now.	Mar 20 2	Inayaili d. Canonical > Ubuntu: things to consider - What things we can consider adding to	Jan 9	(from Peter) Media: not finished / add image Added initial, basic info. To be expanded in phase 2.	Apr 25, 2013 1	Anthony D. Tabs - Create patte
🚺 Inayaili d.	Operators and OEMs: can we have the Truly Canonical roundel looks pixelated.	Mar 19 2	www.ubuntu.com from the new canonical.com: • external links icon • folded paper background •	Inayaili d.	[DEV] Scaffolding: investigate the removal of If we do this, we won't need row-box-alt either	Apr 24, 2013 1	Graham B. /ubuntu/features: features' at the bott
lnayaili d.	Operators and OEMs: quotes to use standard I think the quotes in Canonical have a space before the closing quotation mark.	Mar 19 1	Inayaili d. How should the footer work? Some links not working - I don't know. This is from May	Jan 9 2	and then all pages can have 40px left and right padding.		Graham B. Why do buttons in
Anthony D		Mar 18 1	Anthony D. complete any outstanding work on dev.u.c site They currently have the global nav on the site but have not applied the guidelines changes. http://developer.canonicalwebteam.com/ Here is my		Scaffolding: are there any new row styles? eg When we remove row-box we can remove row-box-alt too across the site	Apr 24, 2013 4	Inayaili d. <u>I feel there's not e</u>
🕼 Inayaili d.	/about/contact-us/form/thank-you: remove dotted And /about/ubuntu-font	Mar 12 1	Peter M. c.com build review meeting notes - 2 December 2013 - KW, GB, AD, PM PROCESS • good to keep having canonical.com reviews • going to move to merge proposals and team reviews for css	Dec 2, 2013 Inayaili d.	<u>Updating the guidelines doc as it is in its</u> - Same as https://basecamp.com/2179997/projects/2603497-canonical/todos/40179715-from-peter-media	Apr 24, 2013 1	Inayaili d. /ubuntu/features: a
Matt T.	Desktop business SS: quote bubbles needs to be SVG - This graphic is available as a pictogram Ant, you'll find it in the pack ('picto-quote-orange').	Mar 12 1	Tanya E. Responsive in SASS - Lil & team's investigation on making Ubuntu web guidelines responsive - https://docs.google.com/a/canonical.com/document/d/1jlbarmCzO-8b-	Nov 14, 2013 4 Tanya E.	<u>Guideline P1</u> - Hi guys. The estimates for P1 were: Lil - 3-4d Graham - 2-3d Ant - 3-4d I've scheduled in the following time for you to complete this. Please let me know if you need more	Apr 24, 2013 1	Inayaili d. /ubuntu/features/c edge of the box
Anthony D	500 SS: missing owl - Its a naughty owl	Mar 10 1	Anthony D. What should I do with the secondary nav? - David is on holiday this week. I'll ask him when he's	Jul 29, 2013 3 Inayaili d.	Applying all the documented guidelines to This has been divided into other tasks.	Apr 24, 2013 1	Graham B. /business/server: t
Matt T.	Ubuntu logo and cookie message close icon look The logos (web and print):-	Mar 10 2	Anthony D. Compare the height of the headers with ones in Made the headers dynamic.	Jul 29, 2013 3 Inayaili d.	<u>Updating the guidelines doc as it is in its</u> - We don't need this, for now we'll count on the actual Web Style Guide documents to provide the examples.	Apr 24, 2013 1	Graham B. /ubuntu/why-is-it-f
Anthony D	https://www.dropbox.com/home/14.04%20release/4-deliverables/logos And the close icon .SVG  TV experience SS: Second screen and Personal  - Done the uone logo but still need to do the	Mar 10 2	Inayaili d. Logo: the subname isn't following the guidelines - I thought we had fixed this in this case the bottom edge of the letter "d" in "developer" should align with the bottom edge of the "u" in	Jul 24, 2013 1 Inayaili d.	<u>Updating the guidelines doc as it is in its</u> - I'll work on this: https://basecamp.com/2179997/projects/2603497-canonical/todos/39680751-get-started-starter	Apr 24, 2013 1	Graham B. /devices/tv/experie
0	tweet picto.	W. 40 0	Anthony D. Site tag styles - That is also in the scratch file. That will be part of the guidelines shortly.	May 31, 2013 4 Inayaili d.	Set up a Launchpad for people to post This might be similar to this:	Apr 24, 2013 1	section buttons
Anthony D	Desktop thank you SS: missing smile SVG pictogram - Where abouts is the picto pack? The one I have has large gaps around image.	Mar 10 2	Tanya E. potential sites for P1b - From what I could fing, these are the sites we discussed sending	May 3, 2013	https://basecamp.com/2179997/projects/2603497-canonical/todos/38938646-launchpad-ant		Graham B. Home: Images in f
Matt T.	Tablet SS: we could create a small version of https://www.dropbox.com/home/14.04%20release/4-deliverables/ubuntu/tablet ^^ See 'image-	Mar 10 1	Guidelines to their owners to test the implementation of it. community.ubuntu.com -  Matt T. Form component alignment with Phone UI - A definite work in progress (designs not	May 3, 2013	[DEV] (from Peter) How to send feedback? - This is now: https://basecamp.com/2179997/projects/2603497-canonical/todos/40372907-set-up-a-launchpad	Apr 24, 2013 1	Tanya E. <u>Dev site - bug list</u> need addressing be
Matt T.	Desktop business SS: can we have an SVG version (This is the fallback graphic for when javascript doesn't load) https://www.dropbox.com/home/14.04%20release/4-	Mar 10 1	complete yet), but I've started looking at refining our form components. A quick example is		(from Peter) Typography: what are heading pairs? - Section removed — we don't use it.	Apr 23, 2013 1	Inayaili d. <u>Box widths</u> - Yes, a
Matt T.	Tablet SS: build a tablet with us needs to be	Mar 10 1	Anthony D. Get started: Verify and correct "Download" section - Good plan.  Inayaili d. [DEV] Print stylesheet: where does the link This seems done too, is it?		<u>Typography: add more information in heading pairs</u> - Section removed — we don't use it.  (from Peter) Components: no example of tabs - In javascript.html	Apr 23, 2013 1  Apr 22, 2013 1	Inayaili d. /business: I didn't make sense in my l
Matt T.	https://www.dropbox.com/home/14.04%20release/4-deliverables/ubuntu/tablet  /cag SS: Wide industry participation - could we	Mar 10 1	Inayaili d. [DEV] Print stylesheet: I understand why "p This seems done, is it?		[DEV] JavaScript: should we remove pullquotes Hi, Can you help me with this question? y	Apr 19, 2013 1	Anthony D. What are we doing they are we can cre
•	https://www.dropbox.com/home/14.04%20release/4-deliverables/ubuntu/phone/carrier-advisory-		Anthony D. <u>JavaScript: for some reasong equal height is</u> - We updated the function of equal-height to apply the same height to all its direct children. Therefore by adding the box class the eight-col and	May 1, 2013 3 Inayaili d.	Review - 2d (Lil) * including Peter's review I can't actually see Peter's review notes in any of	Apr 18, 2013 1	Anthony D. We need to think of font to 13 and sets:
Matt T.	<u>Tick icons needs SVG (move the Ant when done)</u> - https://www.dropbox.com/home/14.04%20release/4-deliverables/patterns	Mar 10 1	Inayaili d. Technical discussion - Thanks.	Apr 30, 2013 2 Inayaili d.	Applying all the documented guidelines to I'm breaking this down in more concrete tasks.	Apr 17, 2013 1	Anthony Dbox-padded is ma
Inayaili d.	Responsive images meeting notes - 4 March 2014, Ant, Matt and Yaili • Ant will start looking at new footer • We won't resize images, we'll try to reduce file size as much as possible, this way	Mar 6	Anthony D. <u>Update guideline styles</u> - As were currently linking to the live styles I do not need to create a fresh one. It already has the latest developments.		set up a new style.scss to combine the base I have created ubuntu-styles.scss which will contain the core styles without section specific styles. This wont to compiled into css until we can	Apr 17, 2013 1	components styles.  Inayaili d. Confirm font on pu
lnayaili d.	<u>UX workshop notes</u> - Meeting with Peter 9am 28 February 2014 • Legal pages will probably not be a separate site and it will be on u.com • GN links to juju.u.com and other sites not the products • 3	Feb 28 1	Anthony D. [DEV] JavaScript: fix tabs example - Just published it, so will be with you soon. The works done	Apr 30, 2013 4 Anthony (	Add style guide generation automaticly - Now that we have our assets deploying automatically	Apr 10, 2013	Anthony D. Verify we use last
Tanya E.	Responsive cheat sheet - So, now that this is decided what is the work required to make this happen? • does someone go through all the images and tag/file/ them into these categories-	Feb 26 4	though.  Inayaili d. [DEV] Scaffolding: enterprise row is showing I see. Thanks.	Apr 30, 2013 3 Tanya E.	to assets.u.com we need to set up a new style.scss to combine the base styles without section  Guidelines review - Peter's notes: - back to top links not working in Chrome (browser test) - agree		now using last-col f
Tanya E.	Responsive estimate meeting I've written the brief for this work which we can go through at the meeting. It's in the Gdocs project folder -	Feb 24 1	Anthony D. [DEV] JavaScript: rework cookie message wording Removing the cookie policy from the mark up and js is adding it. Were we rewriting the message or just the button? Button = "Accept and	Apr 30, 2013 5	look and feel to make examples stand out more - eg. Typography > end of the page. Clear		designed - it hasn't
_			up and jo to adding it, were we rewriting the message or just the button? Button == "Accept and	Inayaili d.	Project update - planning - Hi, What's the images task? I think all remaining to-dos are in	Feb 18, 2013 4	Anthony D. row-equal-height b

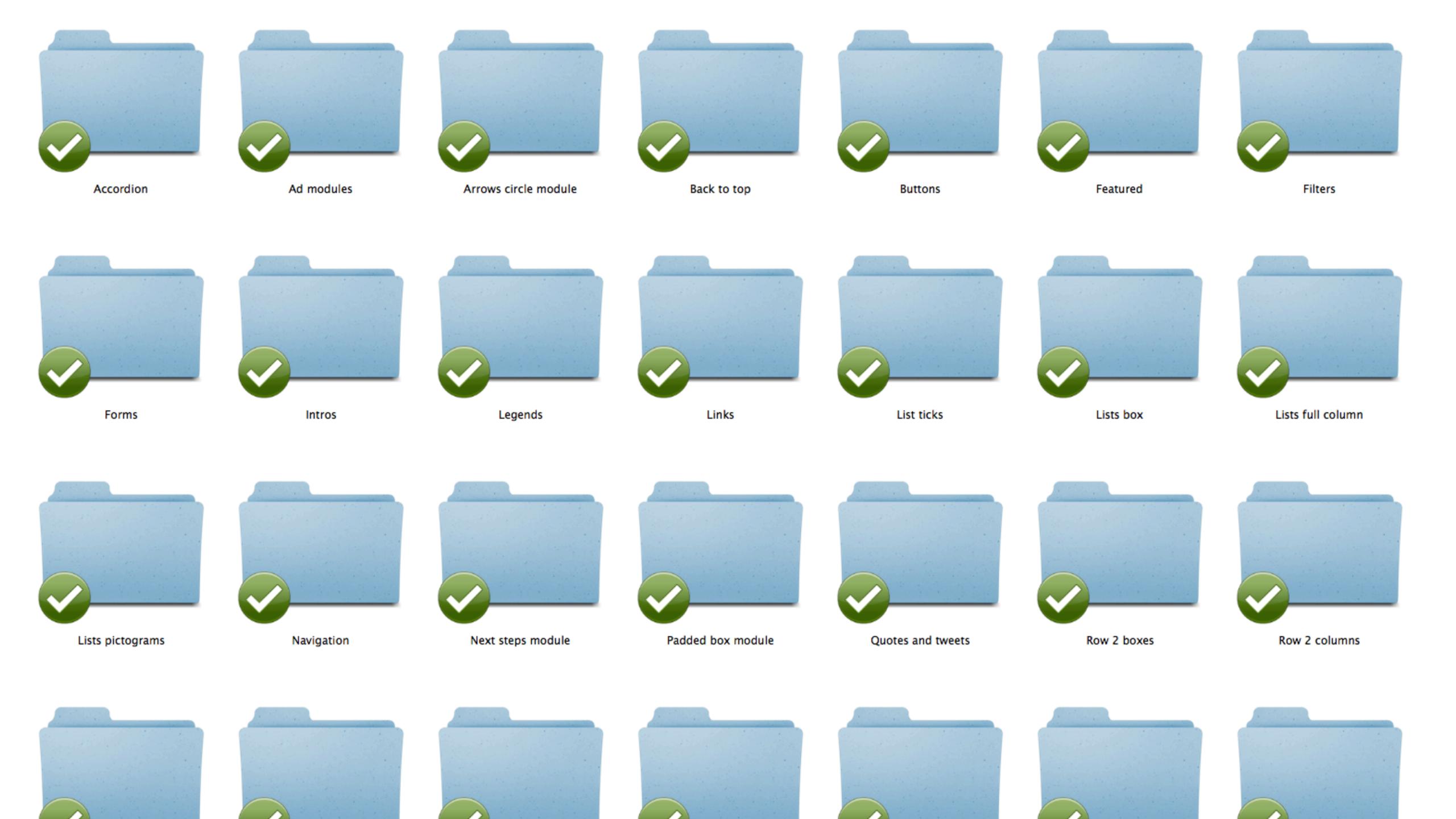
5 Just do it

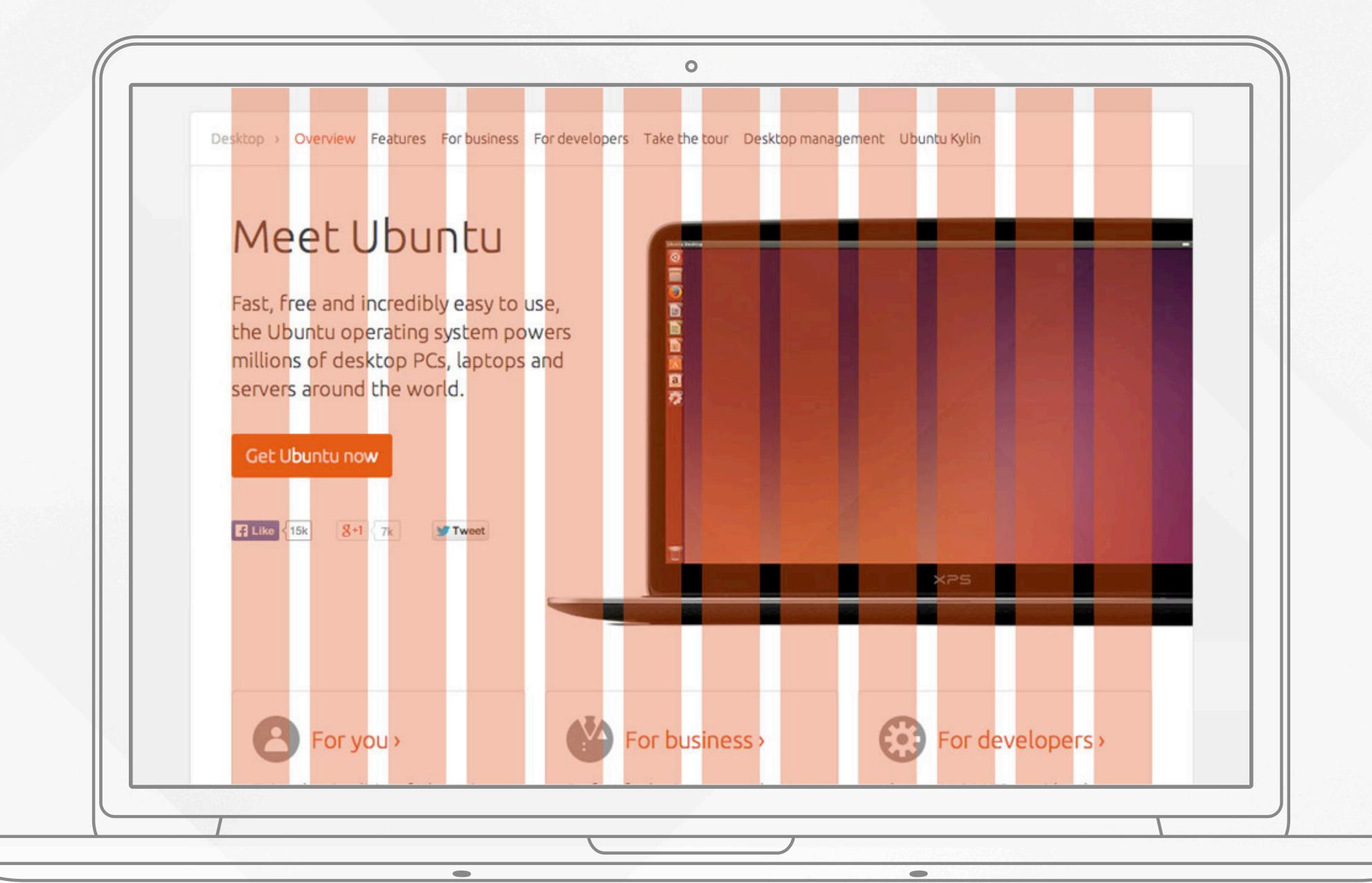
Tidy up before you start

Set the rules

Guerrilla UX

### Tidy up before you start





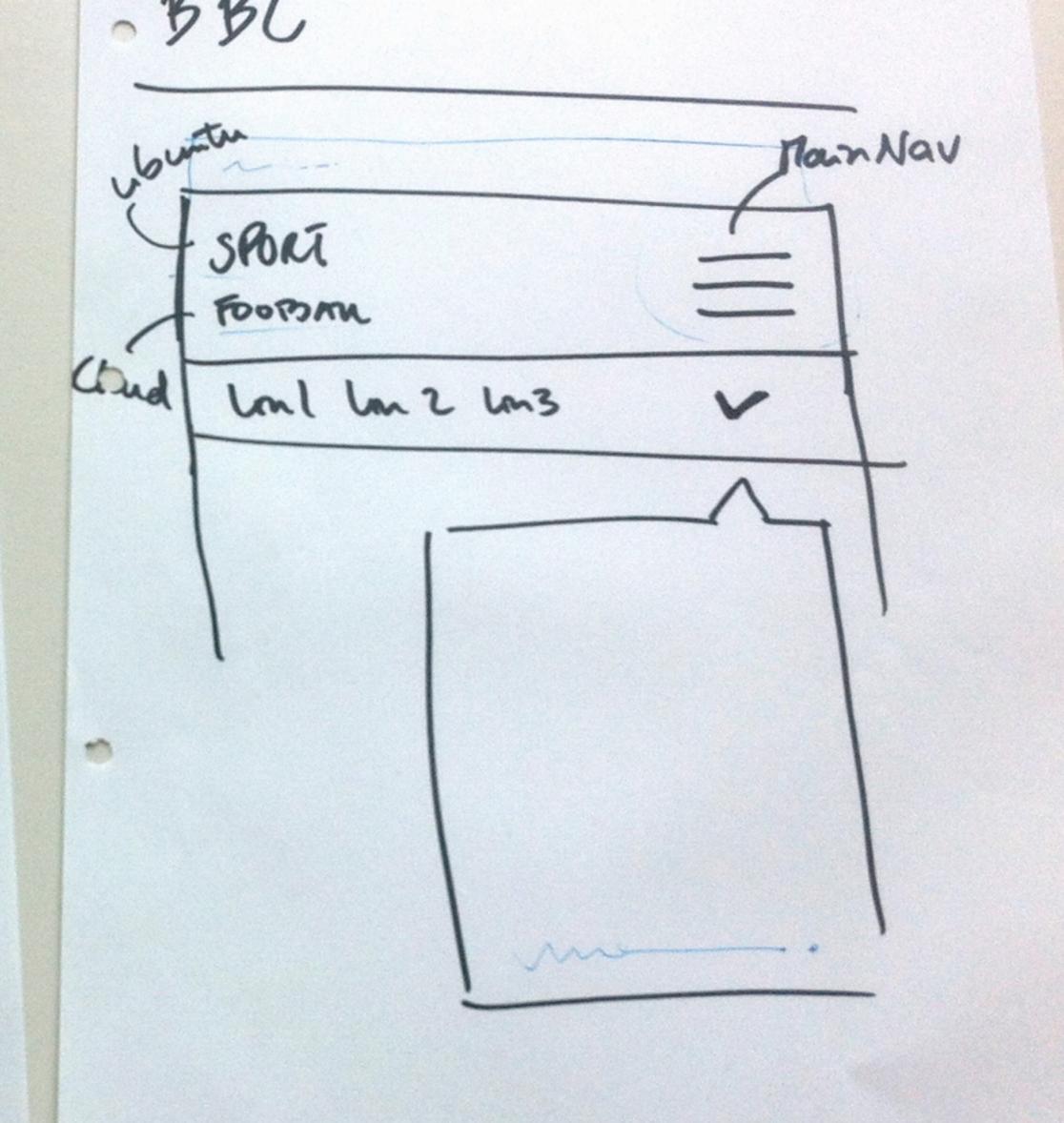
### Set the rules



"Experiment reducing padding inside rows and boxes incrementally as the screen size decreases"



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# Epilogue

# Read more at design.canonical.com

### The end.

Thanks for listening, Inayaili de León Persson @yaili