Responsive Design

Sep 8th 2021

Reading Discussion

Responsive vs Adaptive

Fluid scaling and resizing vs fixed views that present at load. Responsive responds to browser resizing where adaptive loads a version of the site on launch

Responsive

Adaptive

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From today's featured article

Minogue performing the song in 2018

"**Can't Get You Out of My Head**" is a song recorded by Australian singer Kylie Minogue *(pictured)* for *Fever*, her eighth studio album. Parlophone released the song as the album's lead single on 8 September 2001. Written and produced by Cathy Dennis and Rob Davis, it is a dance-pop, techno-pop and neo-disco song that is known for its "la la la" hook. Its lyrics are about obsession. Music critics praised the song's production and Minogue's vocals and labelled it a highlight of *Fever*. The song peaked at number one on charts in 40 countries worldwide. The music video for "Can't Get You Out of My Head", directed by Dawn Shadforth, features Minogue dancing against futuristic backdrops; the white jumpsuit she wore in the video became a fashion statement. Since the song's release, Minogue has included it on the set lists of various concert tours. (**Full article...**)

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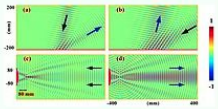
Did you know ...



Method of moments simulations

- ... that **method of moments** is one of the most common simulation techniques in RF and microwave engineering *(example pictured)*?
- ... that sumo wrestler **Shōnanzakura Sōta** had a record 104 consecutive losses?
- ... that the Beach Boys' song **"Rollin' Up to Heaven"** had a chorus that consisted of the lines "alley-oop", "fuck her", and "big tits"?
- ... that **Franček Gorazd Tiršek**, a para-shooter from Slovenia, won three silver medals

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Test

From Wikipedia, the free encyclopedia

Test(s), **testing**, or **TEST** may refer to:

Look up *test*, *testing*, *Test*, or *TEST* in Wiktionary, the free dictionary.

- Test (assessment), an educational assessment intended to measure the respondents' knowledge or other abilities

Contents [hide]
1 Arts and entertainment
2 Computing
3 People
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Arts and entertainment

- *Test* (2013 film), an American film
- *Test* (2014 film), a Russian film
- *Test* (group), a jazz collective
- *Tests* (album), a 1998 album by The Microphones

Computing

- .test, a reserved top-level domain
- test (Unix), a Unix command for evaluating conditional expressions
- TEST (x86 instruction), an x86 assembly language instruction

People

- Test (wrestler), ring name for Andrew Martin (1975–2009), Canadian professional wrestler
- John Test (1771–1849), American politician

Why Use Dedicated ‘M.’ Mobile Sites?

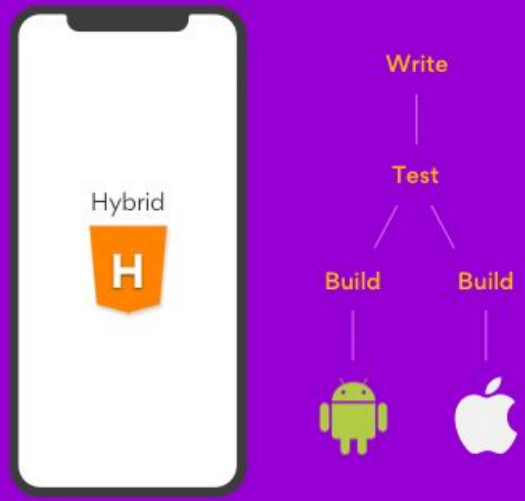
Why use Dedicated ‘M.’ Mobile Sites?

Pros	Cons
Performance	Maintenance
Unique domain	Unique domain

With Breakpoints

Without Breakpoints

HYBRID APPS



NATIVE APPS

Native apps are built for a specific OS (iOS, Android, MacOS) and have independent codebases. Hybrid apps, on the other hand, can work across OS and share the same code base.

Hybrid apps are **less time-consuming to develop and need less maintenance**. Having a single shared codebase allows developers to add new functionalities once. Native apps are more flexible and **offer better performance as well as security**. They offer a **better user experience and allow integration with OS-level features** such as a camera, mic, GPS, Bluetooth, etc.

Build cross-platform desktop apps with JavaScript, HTML, and CSS

Let’s Play with Figma

Designing Responsively

Are the users moving around?

Where are your users?

Mobile First?
Desktop First?

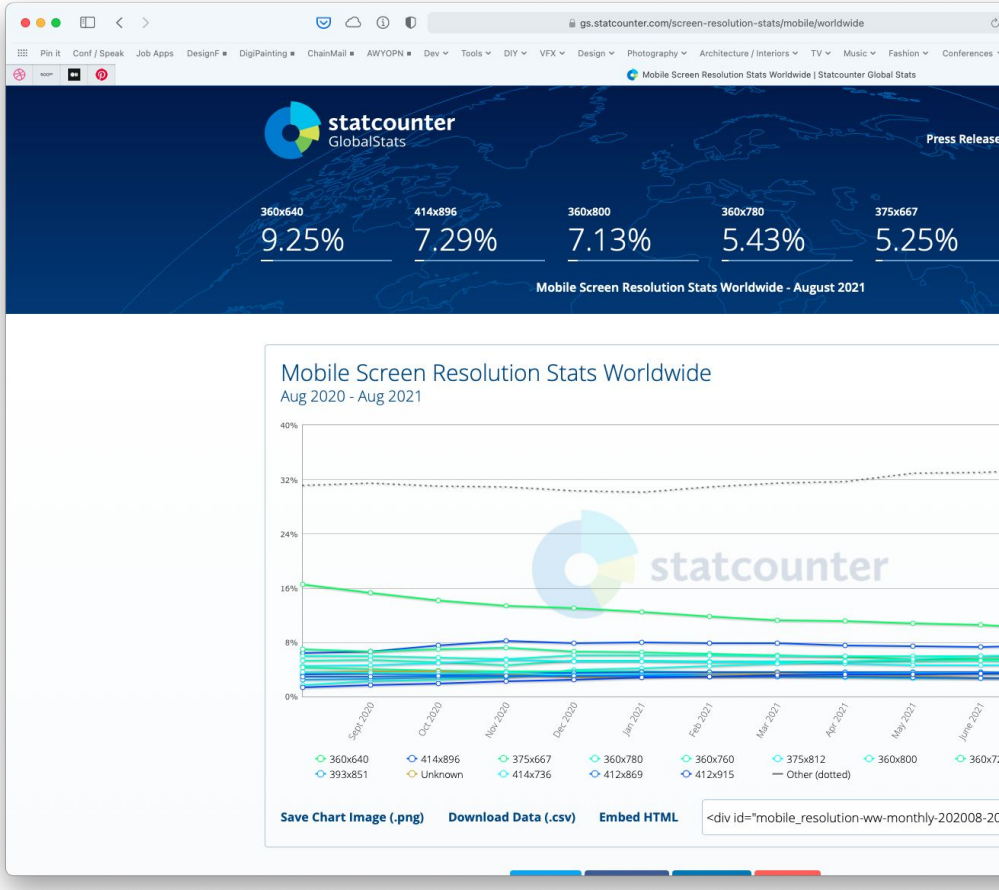
Is this a web app?

Do we want a native app?

Are the users desk bound?

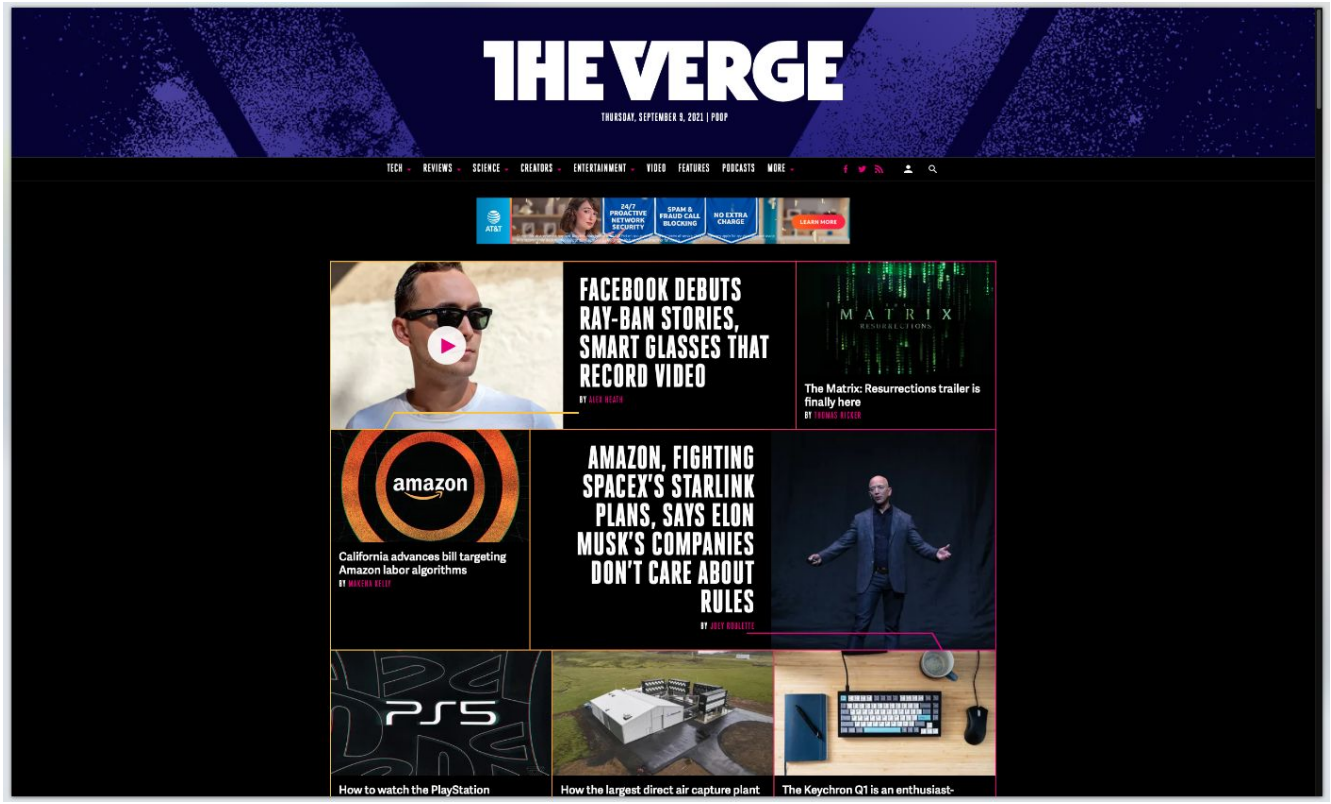
Picking your device sizes to design for

Maybe you want to shoot for the middle ground or the smallest device for the most constraints Think about leveraging an existing grid system.



Consider content flow and hierarchy

Dynamic space constraints change these properties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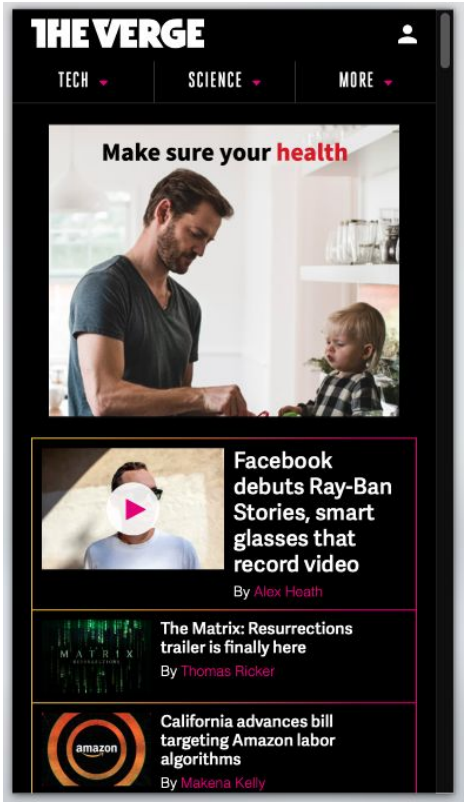
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Precision of the tool + Click target size

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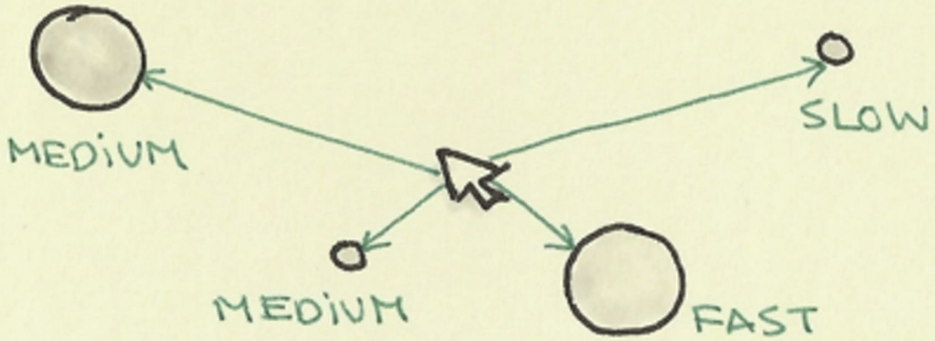
FITTS' LAW



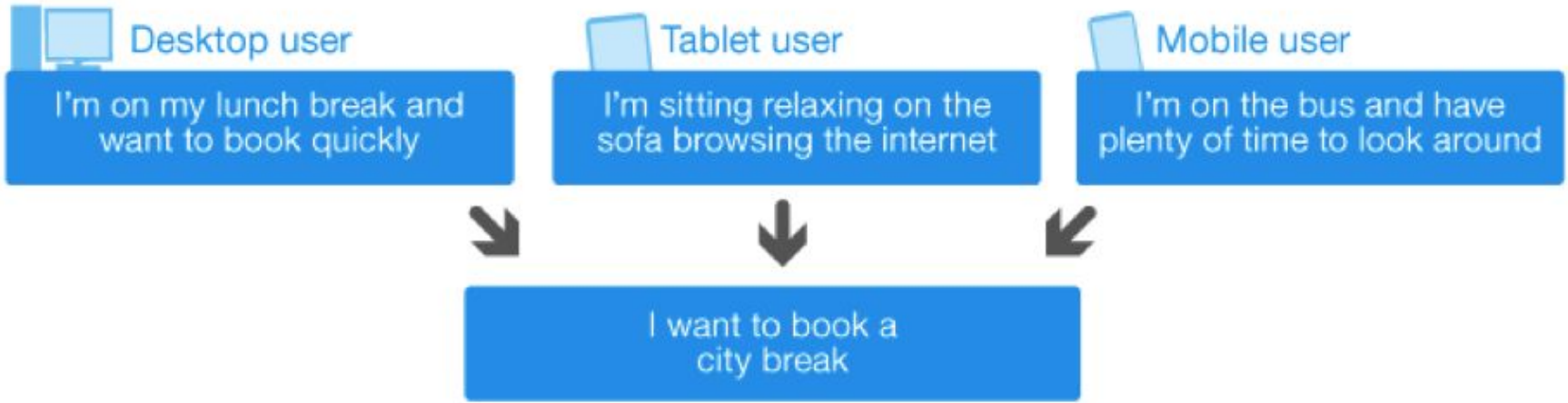
THE TIME TO A TARGET DEPENDS ON THE RATIO OF $\frac{\text{DISTANCE}}{\text{SIZE}}$

or $T = \log_2\left(\frac{D}{S} + 1\right)$

See how aspects of the Bootstrap grid system work across multiple devices with a handy table.

	Extra small <576px	**Small** ≥576px	**Medium** ≥768px	**Large** ≥992px	**Extra large** ≥1200px
Max container width	None (auto)	540px	720px	960px	1140px
Class prefix	`.col-`	`.col-sm-`	`.col-md-`	`.col-lg-`	`.col-xl-`
# of columns	12				
Gutter width	30px (15px on each side of a column)				
Nestable	Yes				
Column ordering	Yes				

Do your user needs change on device size?



Naming Artboards

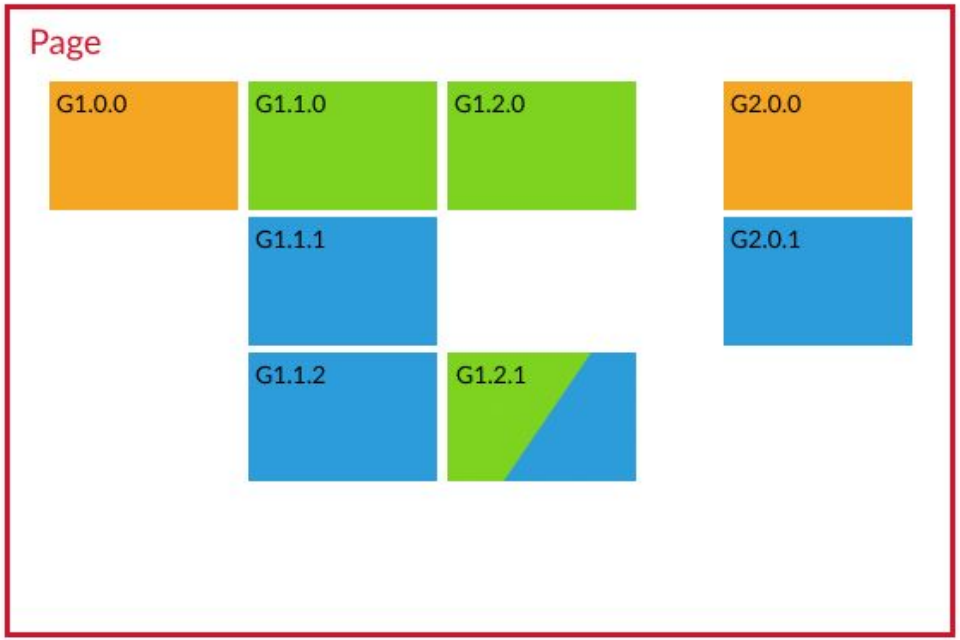
G1.0.0

Related User Group

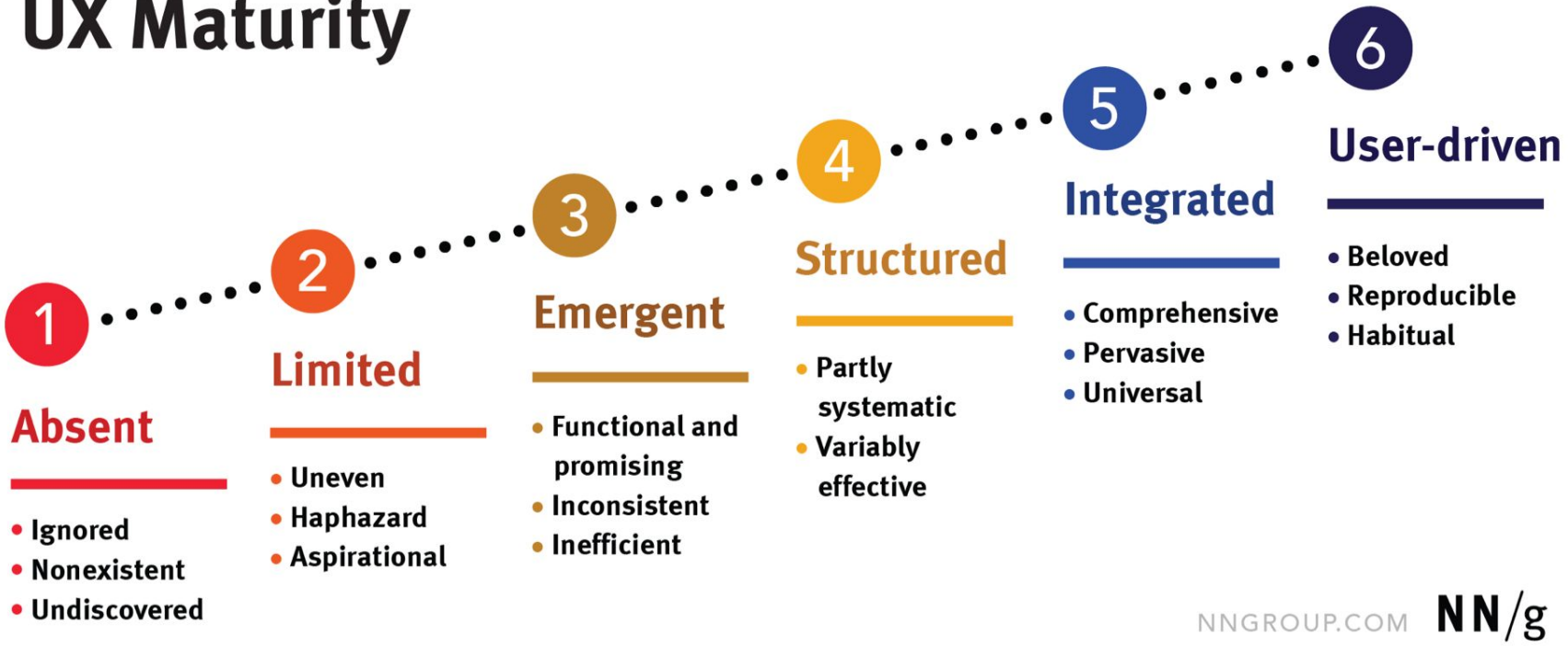
Unique Flows

Steps in a Flow

Iterations of a Step



Stages *of* UX Maturity



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Other Concepts

- Onboarding
- Hierarchy, constraints,
- Information Architecture
- Context is key, consider things like will this app be used at night or in the car? That will inform what you need to worry about and how to prioritize

- Possible Projects: Weather application design, Health app, radiology?, Car Context for a mobile Interface?
-
- Students may be coming into this completely new
- Exposing students to my experiences and knowledge is important… maybe share something weekly
- Ask students if there is anything specific they would like to get out of the class… what topic do you want to cover?