RESPONSIVE WEB DESIGN

"Day by day, the number of devices, platforms, and browsers that need to work with your site grows. Responsive web design represents a fundamental shift in how we'll build websites for the decade to come."

- Jeffrey Veen



There are thousands of device screen sizes

Can't make assumptions about devices accessing our content

Increasingly mobile

Can't make assumptions about users location and context e.g. waiting in line at the grocery store, on the couch at home, on desktop computer at work

Responsive sites respond to their environment Designs adapt to screen size, and orientation, and use cases

Uses flexible designs that make no assumptions about screen size

Use breakpoints to alter the design based on viewport width

RESPONSIVE METHODS

Three main types:

Dedicated mobile site Barely used these days Adaptive (fixed content widths) Not frequently used Fluid (percentage based widths) Most common

Separate sites (content and design) for desktop and mobile Each individually may utilize another responsive method

Requires detecting a specific device or browser, then routing user to appropriate site

Considered bad practice: Complicated SEO requirements (search engine rankings) Difficult/expensive to maintain multiple websites User agent spoofing (can be error prone, serving the wrong site to the wrong users)

RESPONSIVE METHODS: DEDICATED MOBILE SITE



CNN | 9/7/2019 | Listen

Main Stories

- <u>The Bahamas' death toll is rising as 70,000</u> <u>residents left homeless by Hurricane Dorian</u> <u>seek food and shelter</u>
- Here's how you can help Hurricane Dorian victims
- Jet skiers saved 100 people trapped in flooded homes in the Bahamas
- More tropical storms are brewing on both sides of the US
- Former St. Louis Cardinals player dies at 38, team says
- Eva Longoria and other celebrities write letters of support for actress Felicity Huffman ahead of her sentencing
- Fox's Ed Henry returns after donating part of his liver to his sister
- Italian GP practice shortened after horrific Formula 3 crash
- Pizza Hut is making a comeback. Its NFL deal is one reason why
- <u>Must-watch videos of the week</u>
- Bound by 2 mass shootings, football rivals
 El Paso and Odessa unite on the field
- <u>The NFL kicks off to big ratings in a big year</u> for the league



- At each breakpoint there is a fixed content width
- Easier when retrofitting an existing, non-responsive site
- More control of design because you specify fixed content widths (e.g. mobile = 320 pixels wide; tablet = 768 pixels wide; desktop = 1024 pixels wide, etc.)

RESPONSIVE METHODS: ADAPTIVE



Desktop



Mobile

Percentage based widths

Adapts to almost any screen size

Content width grows as viewport grows

Alter content and layout at specific breakpoints e.g. from single column on mobile to 2 column on tablet

Less control of design because content widths are percentages of viewport width And you, the designer, don't get to control the viewport width

RESPONSIVE METHODS: FLUID



Desktop

Mobile



Design for content and situations not screen sizes

Hierarchy, structure and prioritization Properly structured content is portable to future platforms

Users in different situations require different information (e.g. a event): Prior to committing to attending (desktop, tablet, mobile) Purchasing tickets (desktop, tablet, mobile) Getting to the event (mobile) Navigating at the event (mobile) Looking up personal schedule at the event (tablet, mobile) Reviewing session videos post event (tablet, desktop)

THINGS TO CONSIDER

Simplicity Limited screen real estate User may have less focus (distractions on mobile devices) Information density

Speed and performance Slow internet connections Less powerful devices

Constraints of a restricted screen size Often these constraints help make tough decisions about what information is mandatory

Progressive enhancement: As screen size increases, add additional information and complexity The larger screen size allows for more complex designs without overwhelming users

Consider design stress points

At what point (viewport width) does the design break? Introduce breakpoints at those key points.



EXAMPLES

THE WEATHER NETWORK

 \equiv Toronto, ON \vee Search for location Q 7 Days 36 Hours 14 Days Hourly **Next Hour** Sat 2 pm **POP 30%** 20° Wind 14 km/h W Wind gust 21 km/h Feels like 21 Sat 3 pm POP 30% 21° Wind 15 km/h W Wind gust 22 km/h Feels like 23 Sat 4 pm **POP 30%** Wind 16 km/h NW Wind gust 24 km/h Feels like 23 Sat 5 pm POP 20% Wind 18 km/h NW



TIFF



TIFF 2019: Best Bets for Saturday

We've got your weekend plans right here.



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TIFF DOCS Women Make Film: A New Road Movie Through Cinema Part 1 Mark Cousins





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TIFF 2019

Available tickets

Lots of great films to choose from. And if you can't find what you want, we'll recommend you something cool.





CONTEMPORARY WORLD CINEMA Knuckle City Jahmil X.T. Qubeka



DISCOVERY Hope Maria Sødahl

TIFF 2019



SPECIAL PRESENTATIONS Seberg Benedict Andrews



"Both a sensory journey through adolescence and sexual awakening and a meditation on social alienation and sexual frustration."

Black Conflux

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25 Ministerial departments

405

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Crime, justice and the law Legal processes, courts and the police

Disabled people Includes carers, your rights, benefits and the Equality Act

Driving and transport Includes vehicle tax, MOT and driving licences

Education and learning Includes student loans, admissions and apprenticeships

Employing people Includes pay, contracts and hiring

Environment and countryside Includes flooding, recycling and wildlife

Housing and local services Owning or renting and council services

Money and tax Includes debt and Self Assessment

Passports, travel and living abroad Includes renewing passports and travel advice by country

Visas and immigration Visas, asylum and sponsorship

Working, jobs and pensions Includes holidays and finding a job



The websites of all government departments and many other agencies and public bodies have been merged into GOV.UK.

Here you can see all <u>news and communications</u>, <u>statistics</u> and consultations.



OUESTIONS?