



Css3 Responsive Design

Make web pages
visually attractive!



Agenda

- Intro
- Responsive Design
- Media Queries
- CSS Units



Responsive Design

Agenda

- What responsive design means?
- Why use responsive design?
- What is the resolution?
- How to make web pages responsive?

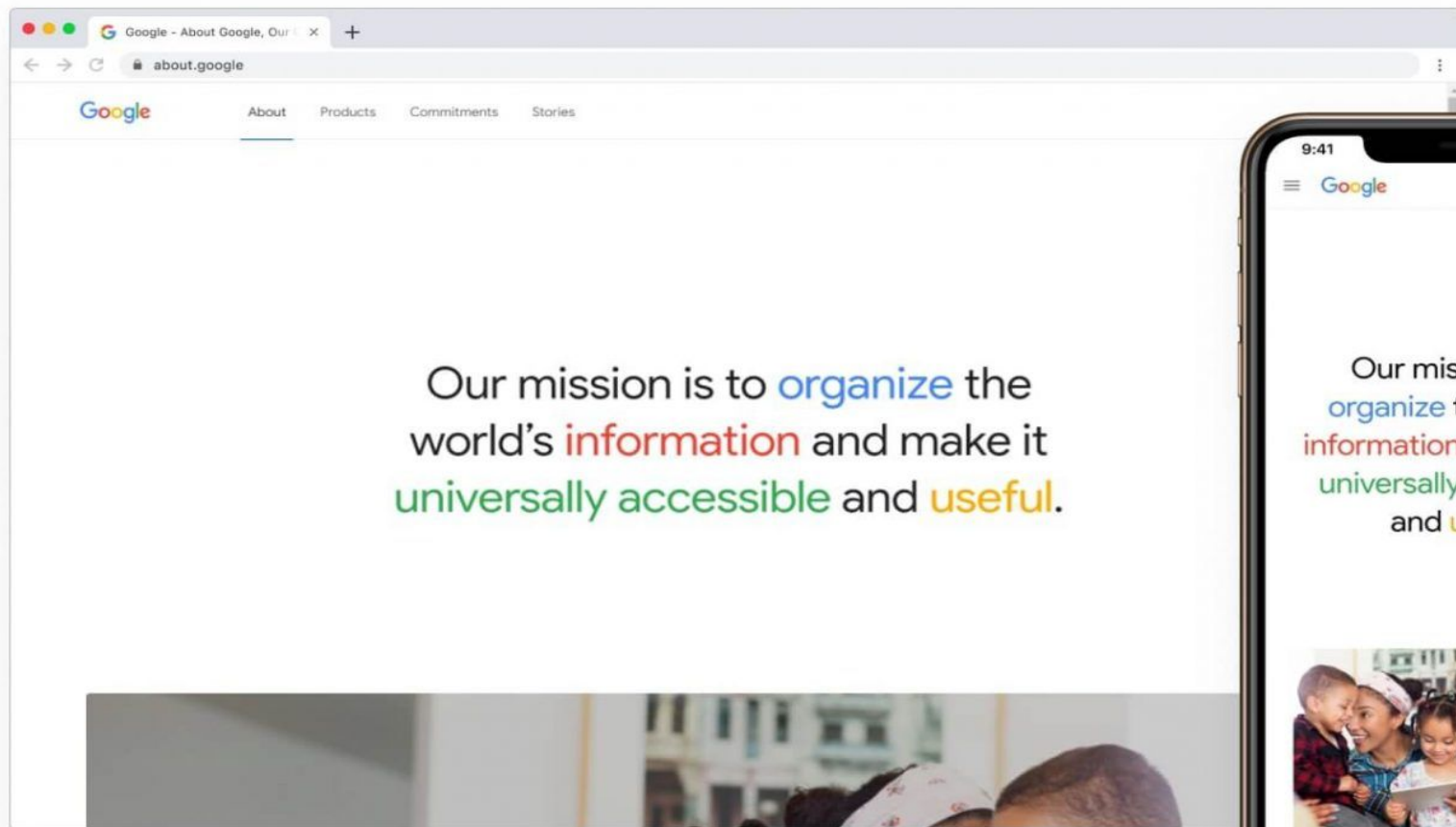


Responsive Design

What responsive design means?

- A responsive design makes a single website adjust to any screen size. It obviates the need to build and maintain two different versions of your site and is as simple to use on mobile devices as it is on tablet and desktop.







Responsive Design

Why use responsive design?

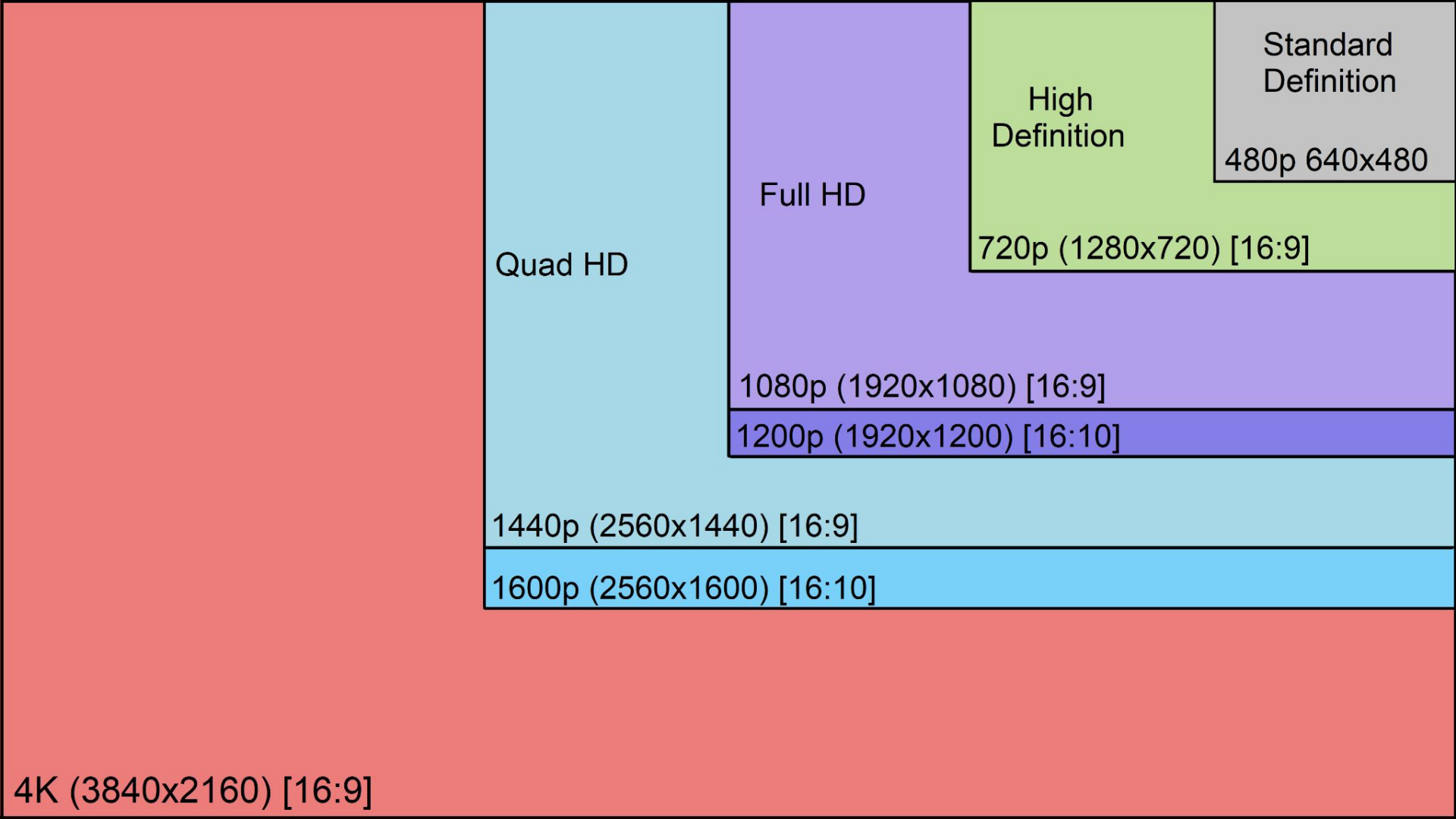
- Less time-consuming
- You update a single site
- You optimize a single site for search engines
- Saves loading time (loads 10 times faster than a mobile site)
- Works effectively on different devices
- All pages are constantly accessible



Responsive Design

What is the resolution?

- Resolution is a measurement of the number of pixels picture elements or individual points of color that can be contained on a display screen or in a camera sensor.
- In practical terms, resolution describes the sharpness, or clarity, of an image or picture.
- It is expressed in terms of the number of pixels that can be displayed both horizontally and vertically.



8K

4K

HD





Media Queries

Description

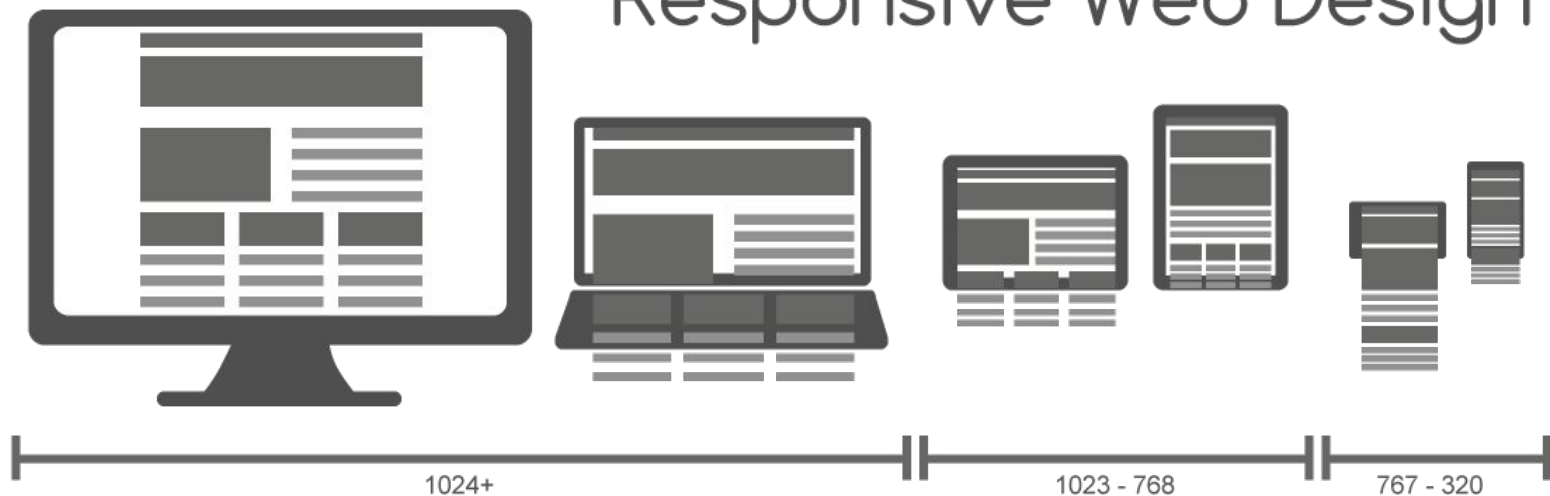
- Media queries are useful when you want to modify your site or app depending on a device's general type or specific characteristics and parameters.



Media Queries

Description

Responsive Web Design





Media Queries

Description

- `@media (max-width: 12450px) { /* ... */ }`
- `@media (color) { /* ... */ }`
- `@media (min-width: 30em) and (orientation: landscape) { /* ... */ }`
- `@media (min-height: 680px), screen and (orientation: portrait) { /* ... */ }`
- `@media (min-width: 30em) and (max-width: 50em) { /* ... */ }`



CSS Units

Agenda

- What is a CSS Unit?
- Absolute length units
- Relative Units



CSS Units

Absolute length units

Unit	Name	Equivalent to
cm	Centimeters	1cm = 37.8px = 25.2/64in
mm	Millimeters	1mm = 1/10th of 1cm
Q	Quarter-millimeters	1Q = 1/40th of 1cm
in	Inches	1in = 2.54cm = 96px
pc	Picas	1pc = 1/6th of 1in
pt	Points	1pt = 1/72nd of 1in
px	Pixels	1px = 1/96th of 1in



CSS Units

Relative length units

Unit	Description
%	Relative to the parent element's value for that property
em	Relative to the current font-size of the element
rem	Relative to the font-size of the root (e.g. the <html> element). "rem" = "root em"
ch	Number of characters (1 character is equal to the width of the current font's 0/zero)
vh	Relative to the height of the viewport (window or app size). 1vh = 1/100 of the viewport's height
vw	Relative to the width of viewport. 1vw = 1/100 of the viewport's width.
vmin	Relative to viewport's smaller dimension (e.g. for portrait orientation, the width is smaller than the height so it's relative to the width). 1vmin = 1/100 of viewport's smaller dimension.
vmax	Relative to viewport's larger dimension (e.g. height for portrait orientation). 1vmax = 1/100 of viewport's larger dimension.
ex	Relative to height of the current font's lowercase "x".

**THANK
YOU!**

Questions?