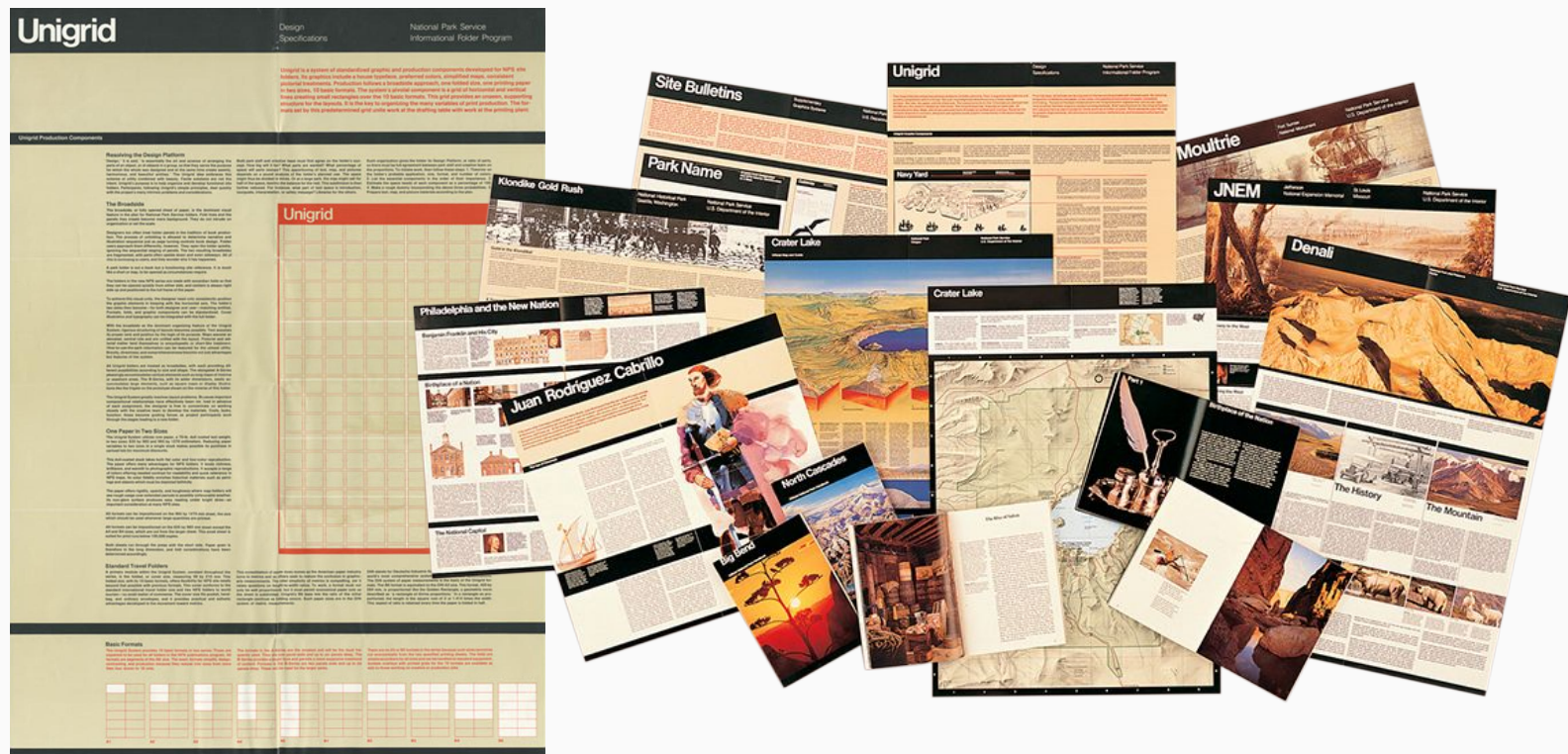


Responsive Web Design

Week 2 Lecture: The Grid



“Our canvas, the browser window, can bend and flex to any shape or size, whether changed at the whim of the reader, or fixed by the phone or tablet they’re using to view our content.”



target ÷ context = result

because em's and % are flexible

Typesetting Example

You're given a mock-up and told a heading needs to contextually be 36 pixels (aka; your target goal). The browser's default (aka; the context you're working in) heading is 16 pixels. You need to determine what em the heading needs to set at (aka; the result) so it is flexible and responsive.

$$36 \text{ (px)} \div 16 \text{ (px)} = 2.25 \text{ (em)}$$

Grid Example

You're given a mock-up and told a section needs to contextually be 1024 pixels (aka; your target goal). The containing div (aka; the context you're working in) is 1280 pixels. You need to determine what % the section needs to set at (aka; the result) so it is flexible and responsive.

$$1024 \text{ (px)} \div 1280 \text{ (px)} = 0.8 \text{ (80\%)}$$



“A css reset cleans up the default browser styling and forces it to be consistent.”

Meyer's Reset Markup

```
<link rel="stylesheet" type="text/css" href="css/styles.css"/>
```


Bootstrap

www.getbootstrap.com



Determining the Viewport

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="utf-8">
    <title>The page title! Yo!</title>
    <meta name="viewport" content="width=device-width, initial-scale=1">
    <link rel="stylesheet" type="text/css" href="css/styles.css"/><!-- Meyer's reset before other CSS -->
    <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/css/bootstrap.min.css">
    <script src="https://ajax.googleapis.com/ajax/libs/jquery/1.12.4/jquery.min.js"></script>
    <script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/js/bootstrap.min.js"></script>
  </head>
  <body>
  </body>
</html>
```

Adding Bootstrap via CDN

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="utf-8">
    <title>The page title! Yo!</title>
    <meta name="viewport" content="width=device-width, initial-scale=1">
    <link rel="stylesheet" type="text/css" href="css/styles.css"/><!-- Meyer's reset before other CSS -->
    <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/css/bootstrap.min.css">
    <script src="https://ajax.googleapis.com/ajax/libs/jquery/1.12.4/jquery.min.js"></script>
    <script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/js/bootstrap.min.js"></script>
  </head>
  <body>
  </body>
</html>
```

Bootstrap Grid

12 columns per row inside a container

	Column	Column	Column	Column	Column	Column	Column	Column	Column	Column	Column	
Row	span 1	span 1	span 1	span 1	span 1	span 1	span 1	span 1	span 1	span 1	span 1	
Row	span 4				span 4				span 4			
Row	span 4				span 8							
Row	span 6						span 6					
Row	span 12											
Container												

Questions?