

PART 2

Introduction

CSS Layouts

Responsive Design

Quick revision

- What is HTML?

Quick revision

- What is HTML?

Markup language used to describe the content of a document. Does not impart any style information.

Quick revision

- What is CSS?

Quick revision

- What is CSS?

Language used to apply visual styles to an
HTML document via cascading selectors.

Quick revision

- What's inline and what's block display?

Quick revision

- What's inline and what's block display?

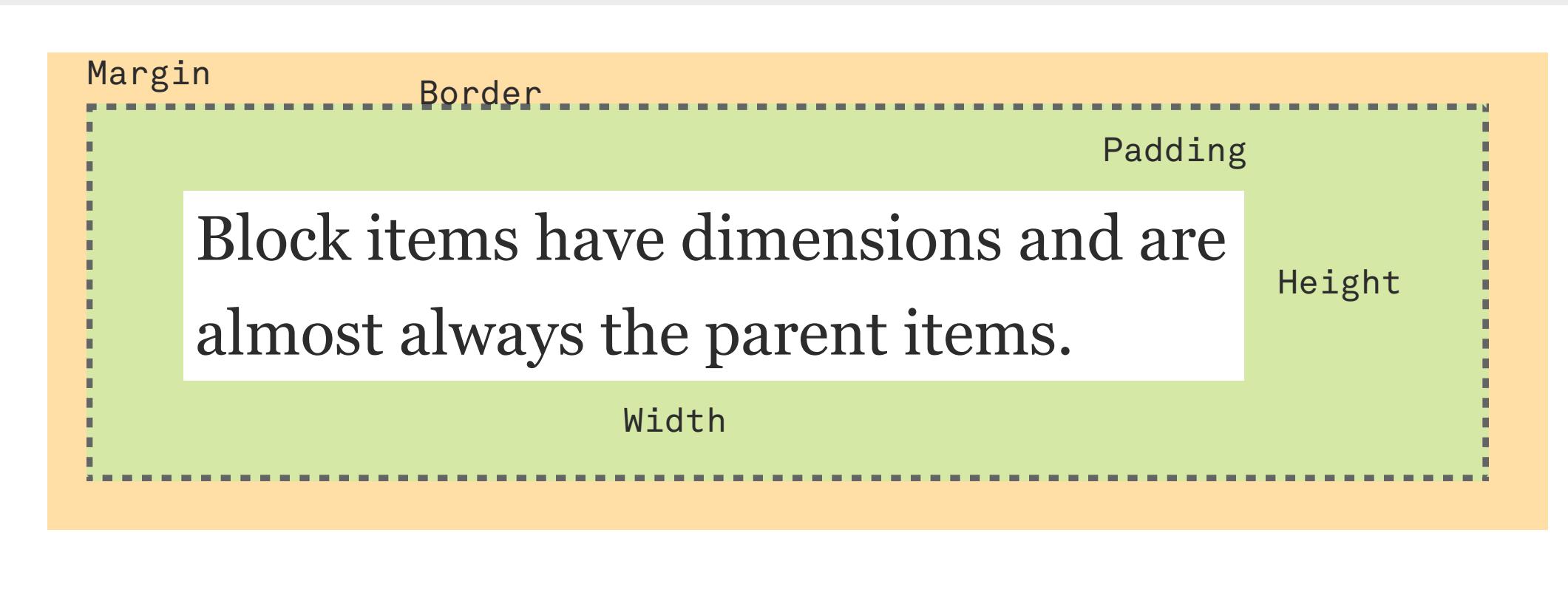
A paragraph is block level whereas
this *emphasised text* is inline.

Quick revision

- What's the difference?

Quick revision

- What's the difference?



Quick revision

- What's the difference?

*Inline items are almost always children
of block items and don't have
dimensions.*

Quick revision

- What's the difference?

Similar to character styles vs paragraph styles in print design.

Layouts and responsive design

Layouts and responsive design

- How CSS is applied to achieve layouts

Layouts and responsive design

- How CSS is applied to achieve layouts
- How CSS works with responsive design

Layouts and responsive design

- How CSS is applied to achieve layouts
- How CSS works with responsive design
- Technical implementation of ‘mobile first’

PART 2

Introduction

CSS Layouts

Responsive Design



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The box model

One of the fundamental principles of CSS is the ‘box model’. In a document, each element is represented as a rectangular box.

Each box may have height, width, margin, border, padding and other properties.

The box model

Because all elements are represented by rectangular boxes it helps to think in linear terms when designing layouts or considering CSS implementations of designs.

The box model

The medium is the message.

The box model

With boxiness in mind, consider this design:

PRACTICAL EXAMPLE

What we'll
be making

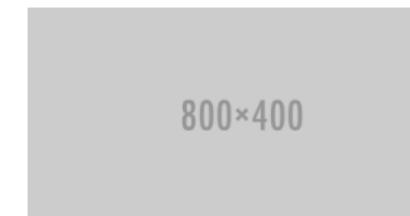
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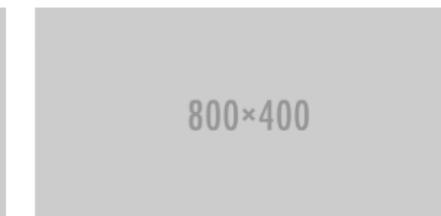
Markets plummet as trade war looms

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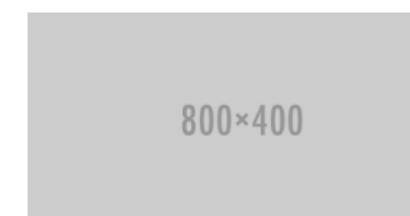
Aliens invade France

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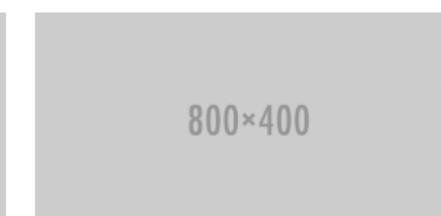
Brexit threatens Continental power balance

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POPULAR

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MOST SHARED

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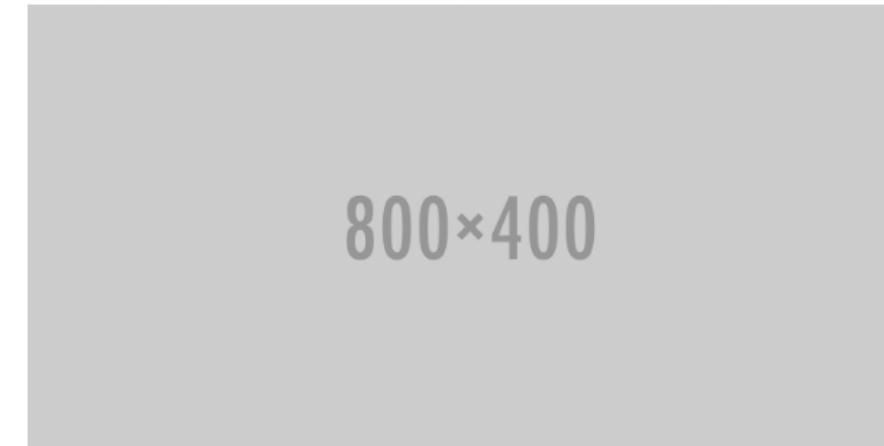


MOST RECENT

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STEP 1

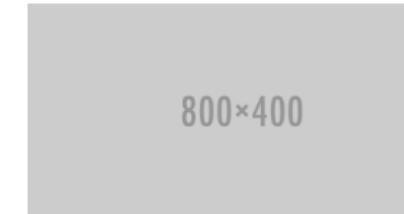
Visualise the grid from a top down perspective.
i.e. Define the highest level elements first



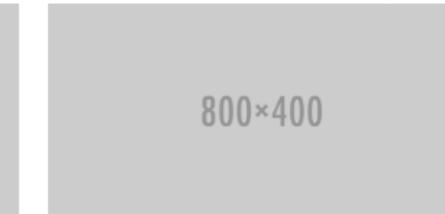
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Markets plummet as trade war looms

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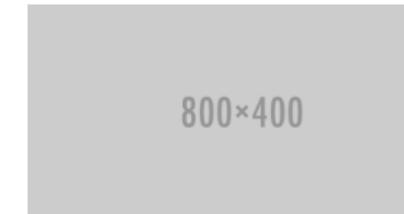
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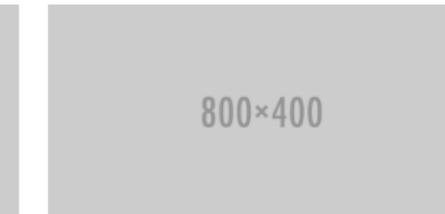
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Aliens invade France

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POPULAR

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300×100

300×100

MOST SHARED

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STEP 1

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i.e. Define the highest level elements first

DAILY NEWS

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STEP 2

Divide the larger units into sub-divisions

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STEP 3

Rinse ‘n’ repeat

DAILY NEWS

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800×400

Markets plummet as trade war looms

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800×400

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• Markets plummet as trade war looms
• Aliens invade France
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300×100

Aliens invade France

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CSS TASK 1

Let's make this layout

DAILY NEWS

Header

HOME BUSINESS SPORT WEATHER LIFESTYLE OPINION ENTERTAINMENT

800×400

300×100

300×100

800×400

800×400

300×300

800×400

Aliens invade France

Brexit threatens Continental power balance

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Left Column

Right Column

But first... a word on floats.

```
.my-div {  
  float: left  
}
```

CSS Floats

- Floats enable boxes to sit side-by-side

CSS Floats

- Floats enable boxes to sit side-by-side
- Without floats boxes will always clear their sides and fall onto a new horizontal space

CSS Floats

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- Parents with floats must use `clearfix`

CSS Floats

- Floats enable boxes to sit side-by-side
- Without floats boxes will always clear their sides and fall onto a new horizontal space
- Parents with floats must use `clearfix`
- Using floats is essential for achieving layouts.

CSS Floats



```
.my-div {  
  width: 50%;  
}
```

CSS Floats



```
.my-div {  
  width: 50%;  
}
```

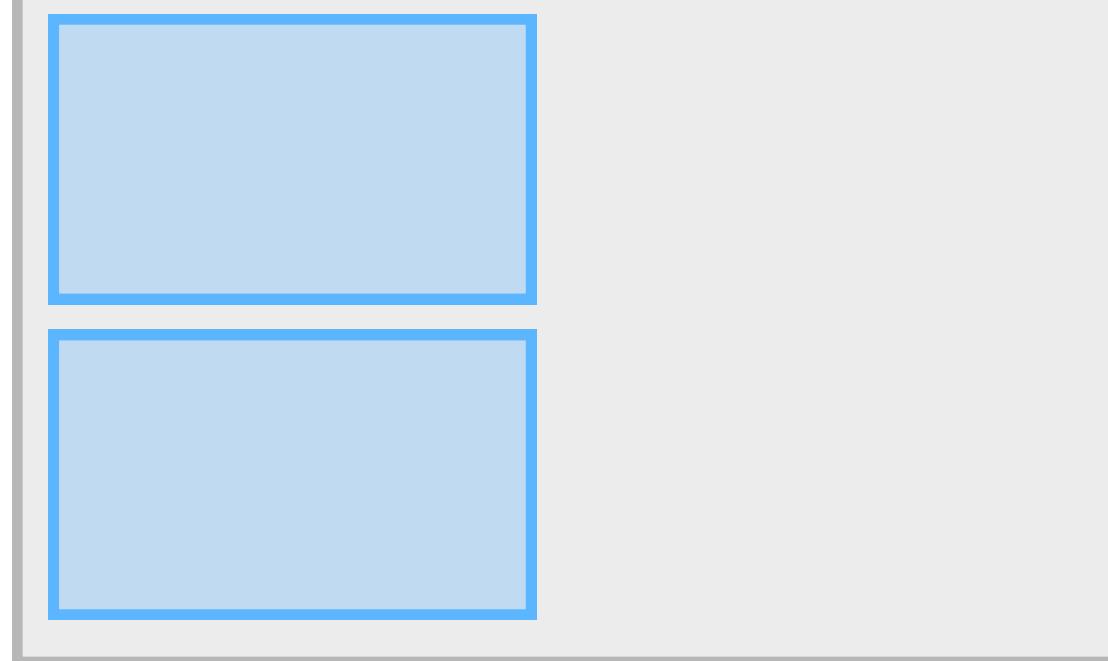


```
.my-div {  
  width: 50%;  
  float: left;  
}
```

CSS Floats

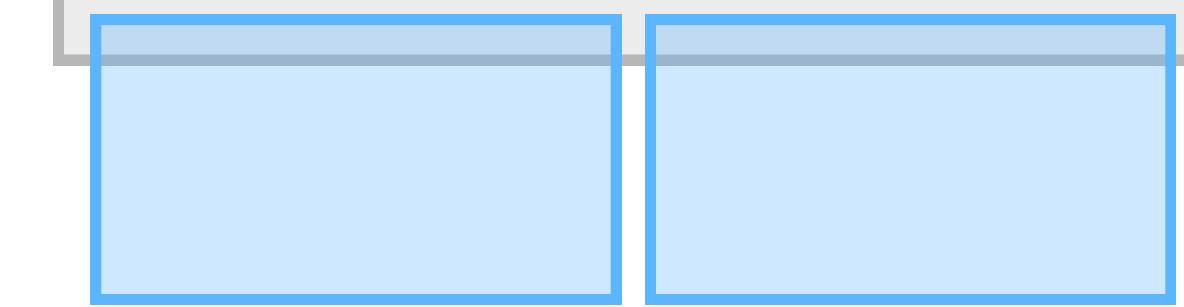


Needs clearfix!

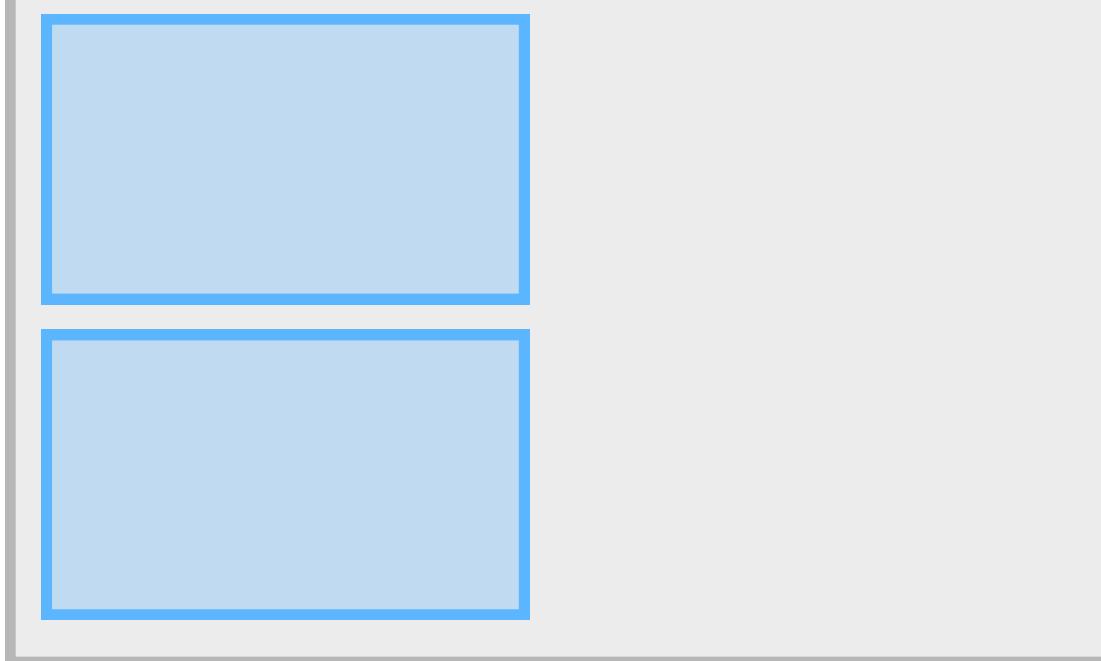
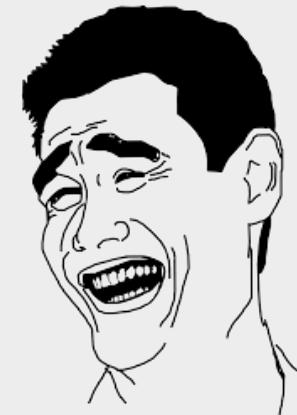


```
.my-div {  
  width: 50%;  
  float: left;  
}
```

```
.my-div {  
  width: 50%;  
}
```



CSS Floats



```
.my-div {  
  width: 50%;  
}
```

```
.my-div {  
  width: 50%;  
  float: left;  
}
```

```
.my-parent-div { clear: fixed; }
```

CSS Floats

Demo time.

CSS TASK 1

Let's make this layout

DAILY NEWS

Header

HOME BUSINESS SPORT WEATHER LIFESTYLE OPINION ENTERTAINMENT

800×400

Left Column

800×400

Aliens invade France
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300×100

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CSS TASK 2

Fill in the columns

DAILY NEWS

HOME BUSINESS SPORT WEATHER LIFESTYLE OPINION ENTERTAINMENT

800×400

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CSS TASK 3

Finish the styling



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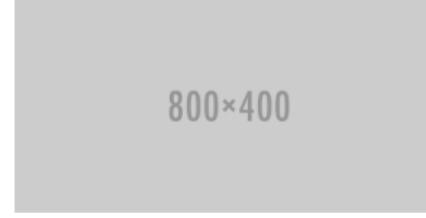
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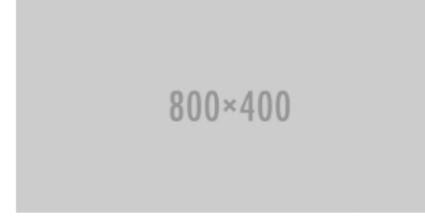
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What is ‘responsive design’

- Term coined by Ethan Marcotte in May 2010

alistapart.com/article/responsive-web-design

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What is ‘responsive design’

- Term coined by Ethan Marcotte in May 2010
alistapart.com/article/responsive-web-design
- Refers to layouts ‘responding’ to the scale of the device in which they’re being viewed
- Usually follows a ‘mobile first’ pattern

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WEATHER | TRAFFIC

AUGUST 22, 2014

65° CLOUDY

SECTION

Remy report pages withheld; DA may have violated law

The report focused on Jared Remy's arraignment following his arrest for assaulting Jennifer Martel days before she was murdered.

Documents: Full Remy report

Arthur S. shows generosity and resolve

Detractors portray him as combative and money grubbing, but that's not how those who deal with Arthur S. see him.

Arthur T's personal touch can cut both ways

The ousted Market Basket leader's management style reveals a tougher side than his public image as a kind-hearted executive.

Arthur T.'s final bid expected today

Hernandez fiancée seeking dismissal of perjury charges

Shayanna Jenkins is asking a judge to throw out allegations that she lied to a grand jury. 5 minutes ago

Teamsters deny harassing Top

65° Cloudy WEATHER | TRAFFIC

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'Frank' tries to get inside a singer's head

The movie with Michael Fassbender in a giant papier-mâche head is an entertaining curio with flashes of inspiration.

What is ‘mobile-first’?

- Technical and design implications

What is ‘mobile-first’?

- Technical and design implications
- Acknowledges primacy of mobile traffic

What is ‘mobile-first’?

- Technical and design implications
- Acknowledges primacy of mobile traffic
- Makes logical sense with regard to how responsive designs are implemented w/CSS

Why mobile first for business?

- One code base to maintain

Why mobile first for business?

- One code base to maintain
- Lower costs to maintain and easier to roll out new features

Why mobile first for business?

- One code base to maintain
- Lower costs to maintain and easier to roll out new features
- Unified experience across all devices

Why mobile first with CSS?

- As the scale of a design grows it usually attains more complexity

Why mobile first with CSS?

- As the scale of a design grows it usually attains more complexity
- CSS is usually added as a design grows

Why mobile first with CSS?

- As the scale of a design grows it usually attains more complexity
- CSS is usually added as a design grows
- Therefore it follows that the smaller, mobile styles are best starting point

Mobile.

Simplest design, single column.

the guardian

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EU referendum

Live / Brexit fallout continues as shadow cabinet crumbles

London / Racist incidents feared to be linked to Brexit result

NHS / Duncan Smith backtracks on £350m claim

Tory leadership / Rift opens as recriminations begin

25,927

Michael White / This is the greatest political crisis of my lifetime

Second referendum / Petition may have been manipulated

Tablet.

Increasing complexity. More columns and layout features.

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EU referendum Monday 27 June 2016

Live / Brexit fallout continues as shadow cabinet crumbles

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Now 10°C 12:00 12°C 15:00 14°C Sydney

Independents / Turnbull's attack 'remarkably arrogant', say senators

Live / Election 2016: Coalition pulls ahead in poll

Today's campaign / Newspoll hands PM best

Small desktop.
More columns and complexity.

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 EU referendum Monday 27 June 2016

● Live / Brexit fallout continues as shadow cabinet crumbles

Eleven resign from Jeremy Corbyn's team

25,927  

London / Racist incidents feared to be linked to Brexit result

NHS / Duncan Smith backtracks on £350m claim

Tory leadership / Rift opens as recriminations begin



Michael White / 66 This is the greatest political crisis of my lifetime

Second referendum / Petition may have been manipulated



headlines

Independents / Turnbull's attack 'remarkably arrogant', say senators

PM described as disrespectful after saying voting for independents is 'a roll of the dice' at campaign launch

161  



Now 10°C  12:00 12°C  15:00 14°C  18:00 13°C  Sydney 

● Live / Election 2016: Coalition pulls ahead in poll

Today's campaign / Newspoll hands PM best result in 14 weeks

264  



California / Multiple people stabbed at Sacramento white

Spanish elections / Initial results point to renewed



Largest viewport. Most complex.

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headlines

Now 10°C 

12:00 12°C  15:00 14°C  18:00 13°C  21:00 11°C 

Sydney 

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161 | 



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264 | 

Republicans / Cracks begin in US election

Trump / Donald Trump speaks at campaign rally

LGBT rights / Pope says Christians should accept gay people

California / Multiple people stabbed at Sacramento white nationalist rally

Iraq / Falluja fully liberated from Islamic State

Spanish elections / Initial results point to renewed deadlock

Climate change / John Hewson accuses Coalition of 'national disgrace'



Mobile-first example

```
// Default (mobile styles)
.story {
  font-family: Arial;
  border-top: solid 1px #ddd;
}

// Tablet + styles
@media (min-width: 768px) {
  .story {
    width: 50%;
    padding-right: 10px;
  }
}
```

The default styles apply to all viewports including mobile.

Using the `@media` selector we extend the default styles to apply to all viewports at least 768px (i.e. tablet and above)

Mobile-first demo

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Up-to-date headlines from around the world.



400×200

Markets sink as trade war looms

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Markets sink as trade war looms

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Thank you.