

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?

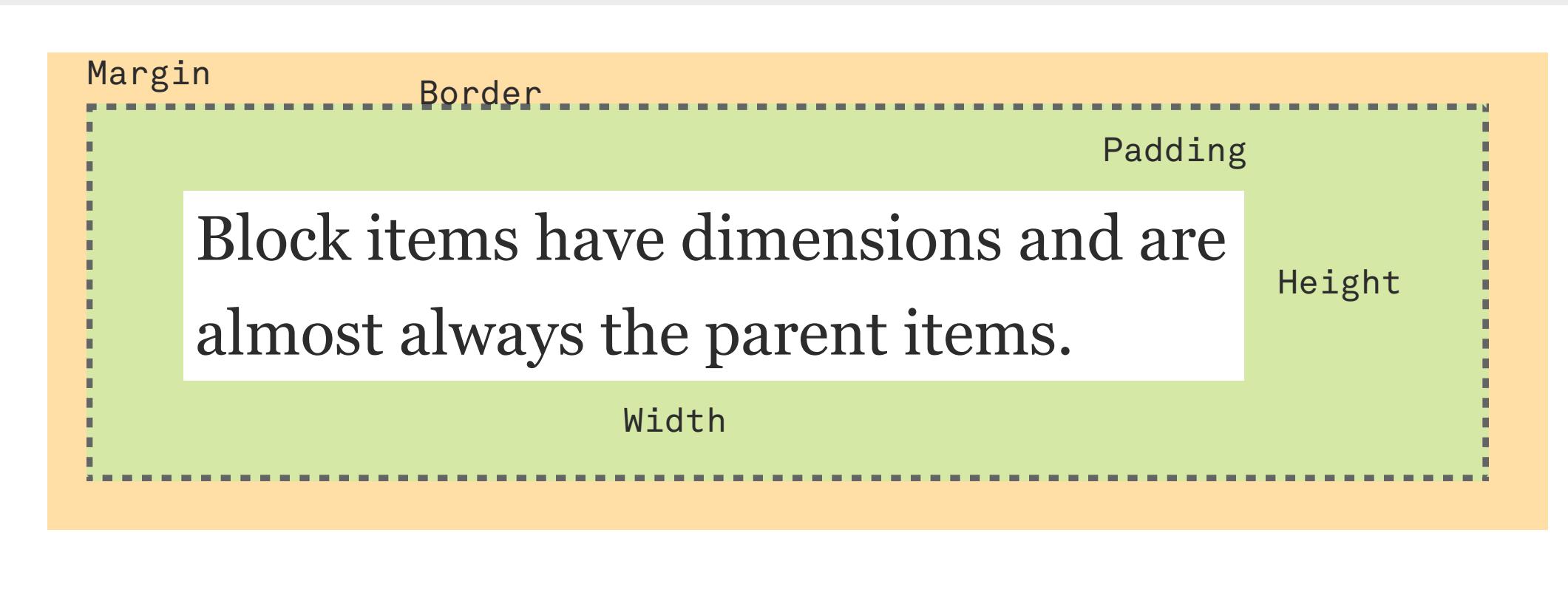
A paragraph is block level whereas  
this *emphasised text* is inline.

# 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

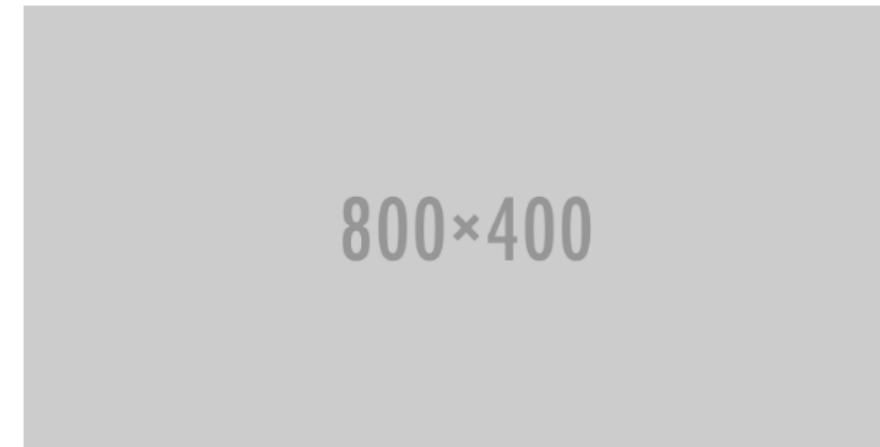
With boxiness in mind, consider this design:

# PRACTICAL EXAMPLE

What we'll  
be making

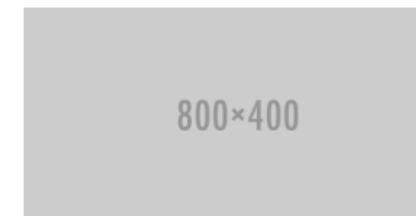
## DAILY NEWS

HOME BUSINESS SPORT WEATHER LIFESTYLE OPINION ENTERTAINMENT



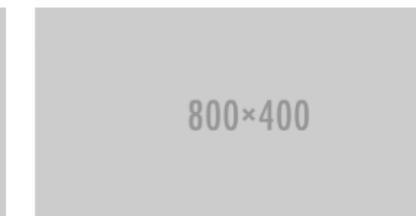
### Markets plummet as trade war looms

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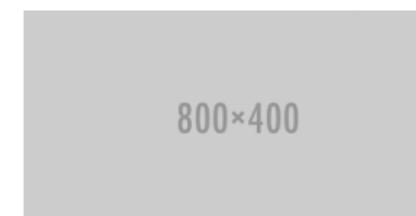
#### Aliens invade France

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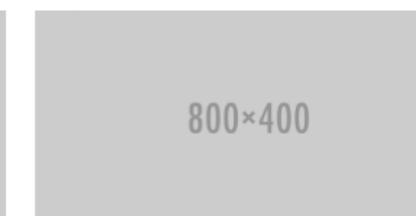
#### Brexit threatens Continental power balance

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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



800×400

### Markets plummet as trade war looms

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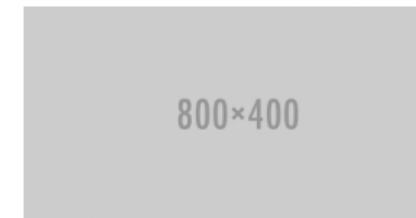
800×400

### Aliens invade France

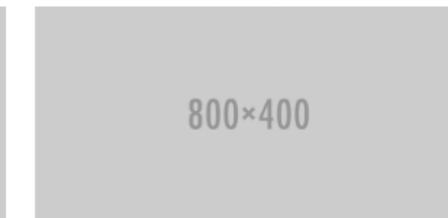
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#### POPULAR

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300×100



300×100

#### MOST SHARED

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300×300

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# STEP 1

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

# DAILY NEWS

HOME BUSINESS SPORT WEATHER LIFESTYLE OPINION ENTERTAINMENT

800×400

**Markets plummet as trade war looms**  
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# STEP 2

## Divide the larger units into sub-divisions

# DAILY NEWS

HOME BUSINESS SPORT WEATHER LIFESTYLE OPINION ENTERTAINMENT

800×400

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# STEP 3

## Rinse ‘n’ repeat

# DAILY NEWS

HOME BUSINESS SPORT WEATHER LIFESTYLE OPINION ENTERTAINMENT

800×400

### Markets plummet as trade war looms

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## Rinse ‘n’ repeat

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HOME BUSINESS SPORT WEATHER LIFESTYLE OPINION ENTERTAINMENT

800×400

### Markets plummet as trade war looms

• Markets plummet as trade war looms  
• Aliens invade France  
• Brexit threatens Continental power balance

300×100

300×100

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800×400

Aliens invade France

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Brexit threatens Continental power balance

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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

**Left Column**

800×400

800×400

**Aliens invade France**  
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300×300

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

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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%;  
}
```

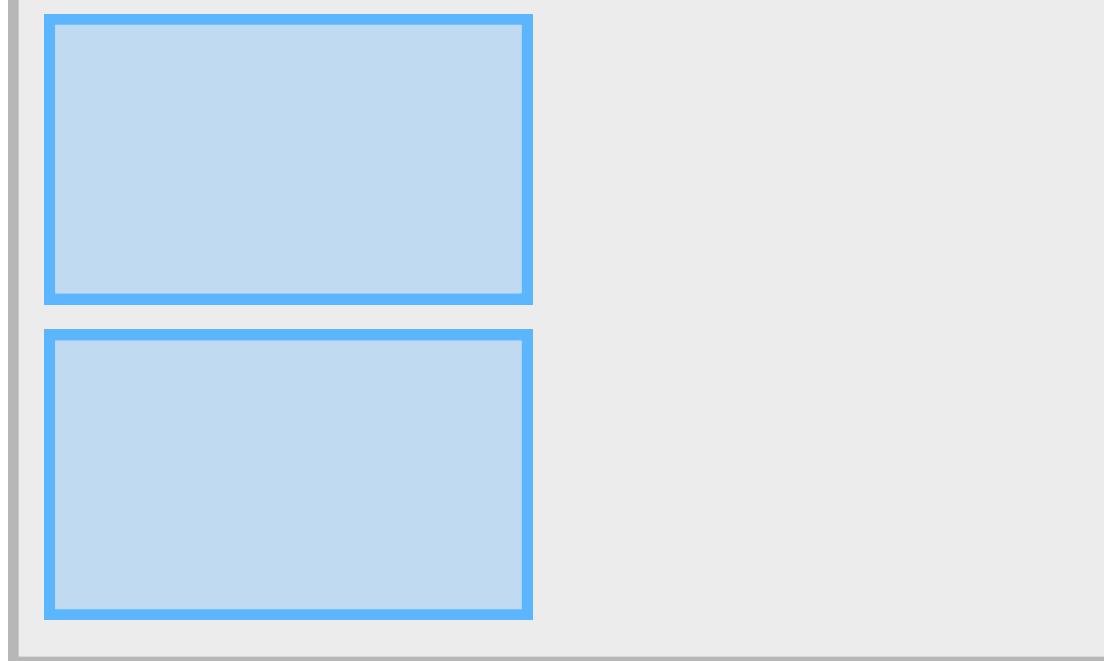


```
.my-div {  
  width: 50%;  
  float: left;  
}
```

# CSS Floats

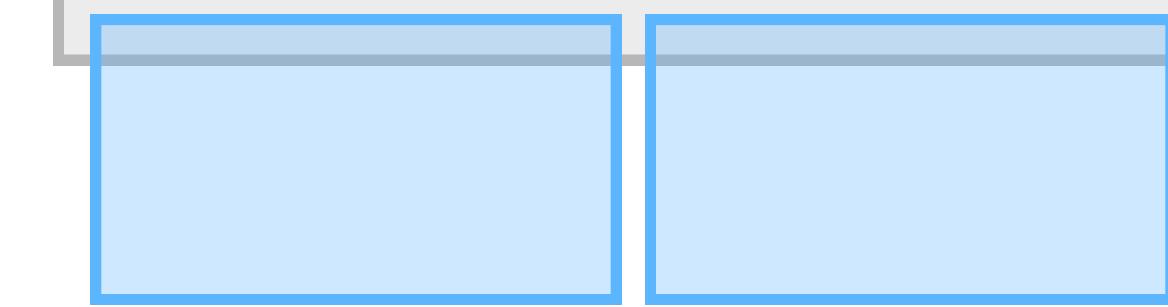


Needs clearfix!

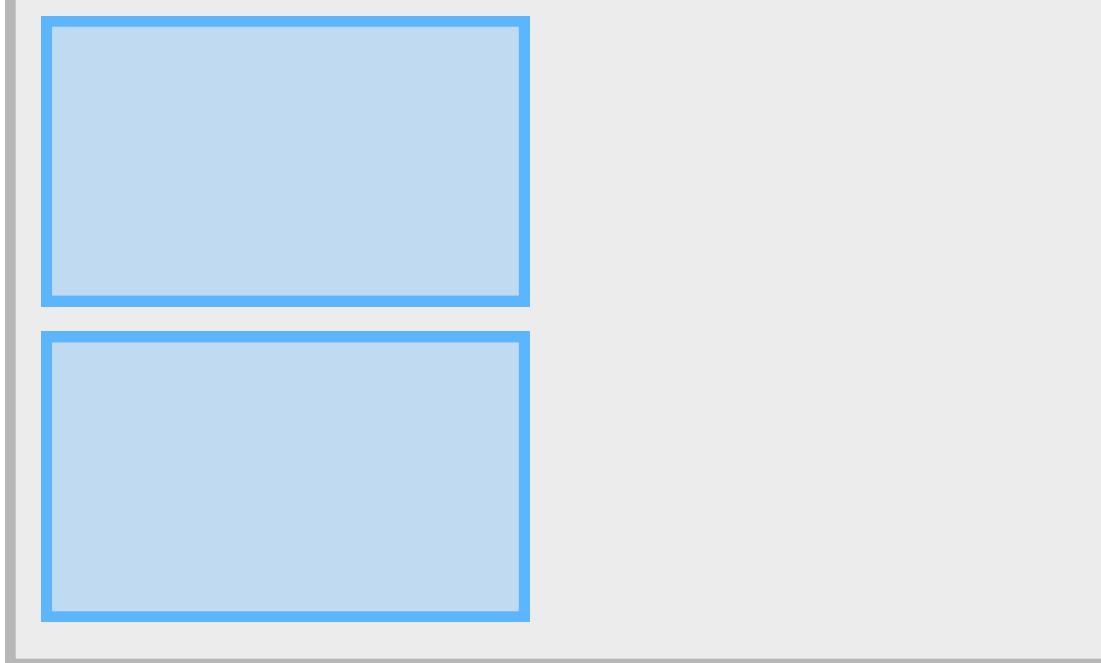
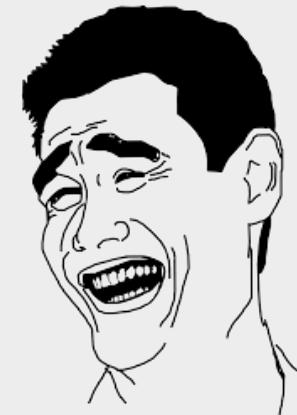


```
.my-div {  
  width: 50%;  
  float: left;  
}
```

```
.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

800×400

**Aliens invade France**  
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**Brexit threatens Continental power balance**  
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**POPULAR**

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300×100

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**MOST SHARED**

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**MOST RECENT**

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# CSS TASK 2

## Fill in the columns

# DAILY NEWS

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800×400

### Markets plummet as trade war looms

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Aliens invade France

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300×100

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MOST RECENT

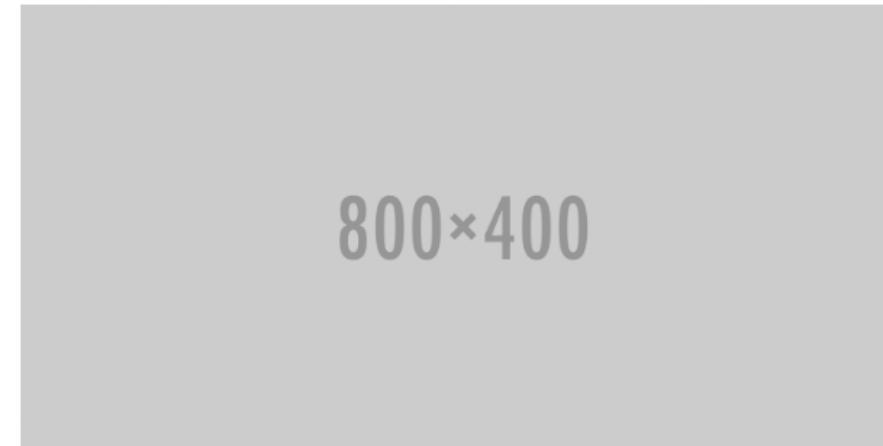
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# CSS TASK 3

## Finish the styling



### Markets plummet as trade war looms

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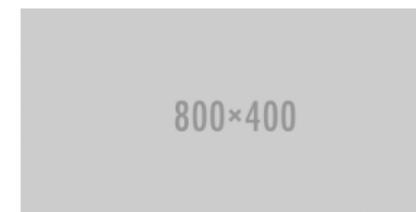
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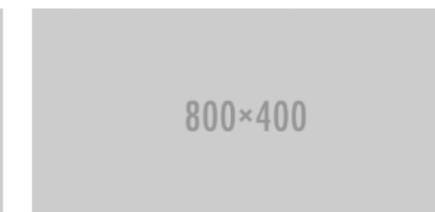
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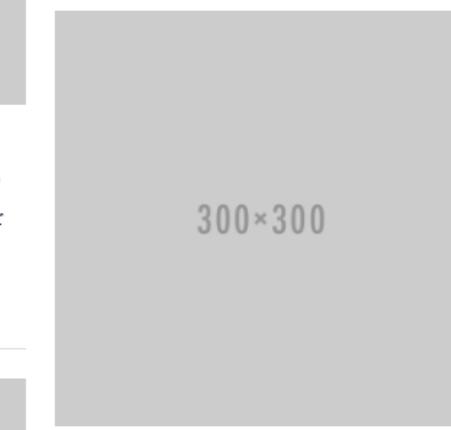
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PART 2

Introduction

CSS Layouts

Responsive Design

# What is ‘responsive design’

- Term coined by Ethan Marcotte in May 2010

[alistapart.com/article/responsive-web-design](http://alistapart.com/article/responsive-web-design)

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- Term coined by Ethan Marcotte in May 2010  
[alistapart.com/article/responsive-web-design](http://alistapart.com/article/responsive-web-design)
- Refers to layouts ‘responding’ to the scale of the device in which they’re being viewed

# What is ‘responsive design’

- Term coined by Ethan Marcotte in May 2010  
[alistapart.com/article/responsive-web-design](http://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

The Boston Globe

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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

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Beacon Hill needs more dialogue, less sparring on ramps

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MOVIE REVIEW

'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

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- Acknowledges primacy of mobile traffic

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- 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?

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

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# 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.

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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

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headlines 10°C

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

161

headlines

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

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## 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

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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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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.



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### **Markets sink as trade war looms**

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### **Markets sink as trade war looms**

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Thank you.