

PART 8

## Introduction

HTML

CSS

Dev

Infrastructure

# The wrapping-up lesson

# The wrapping-up lesson

Let's put together everything we've talked about:

# The wrapping-up lesson

Let's put together everything we've talked about:

- HTML

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- CSS

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# Originals aims

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- Practical skill: edit designs in the browser

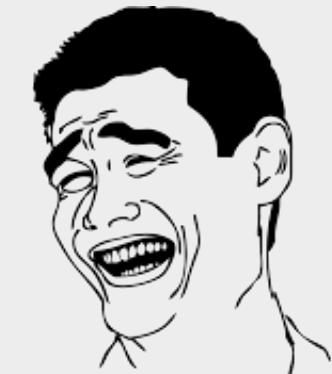
# Originals aims

This course was intended to:

- Improve inter-team communication
- Enhance understanding of the medium
- Practical skill: edit designs in the browser
- ... ultimately allow us to ship better products

# Originals aims

Also I (sort of) learnt how to use Sketch



Let's review what we've done...

PART 8

# Introduction

**HTML**

---

**CSS**

**Dev**

**Infrastructure**

# HTML in a nutshell

# HTML in a nutshell

HTML is just a way of describing a document in terms of content and hierarchy and doesn't impart any stylistic information.

The New York Times website screenshot showing various sections and a sidebar.

**Top Navigation:**

- SECTIONS
- SEARCH
- U.S. INTERNATIONAL 中文 ESPAÑOL
- SUBSCRIBE NOW
- LOG IN
- SETTINGS

**Left Sidebar:**

The world's most trusted perspective.

**Main Header:**

# The New York Times

Sunday, August 21, 2016 | Today's Paper | Video | 63°F | S. & P. 500 -0.14% ↓

**Main Navigation:**

[World](#) [U.S.](#) [Politics](#) [N.Y.](#) [Business](#) [Opinion](#) [Tech](#) [Science](#) [Health](#) [Sports](#) [Arts](#) [Style](#) [Food](#) [Travel](#) [Magazine](#) [T Magazine](#) [Real Estate](#) [ALL](#)

**Green Box Content:**

The New York Times

The world's most trusted perspective.

Get 4 weeks of The Times. Just €1.

SUBSCRIBE NOW

**Election 2016 Article:**

**ELECTION 2016**

## In Trump's Empire, Hazy Ties and \$650 Million in Debt

By SUSANNE CRAIG



Ruddy Roye for The New York Times

**Sunday Review:**

OP-ED | VANESSA BARBARA

### I Criticized the Olympics. It Doesn't Make Me a Traitor.

In Brazil, many of us are so obsessed with how the outside world sees us that we won't recognize our own faults.

- Editorial: How Can America Recover From Donald Trump?
- Douthat: The Virtues of Reality
- Dowd: An Open Letter From Mr. Trump
- Kristof: This Land Is My Land (And Yours, Too!)
- Kirp: Conquering the

**Zika Article:**



### Zika: The Millennials' S.T.D.?

By KELLY MCBRIDE FOLKERS

Zika could threaten my pregnancy. Will I have to give up my dream of having a family?

[SECTIONS](#) [SEARCH](#)[SUBSCRIBE NOW](#)[LOG IN](#)

U.S. INTERNATIONAL 中文 ESPAÑOL

**The world's most trusted perspective.**

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ELECTION 2016

## In Trump's Empire, Hazy Ties and \$650 Million in Debt

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Ruddy Roye for The New York Times

Segregation, the Neighbor That

## Sunday Review

OP-ED | VANESSA BARBARA

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**Zika: The Millennials' S.T.D.?**

By KELLY MCBRIDE FOLKERS

Zika could threaten my

The screenshot shows the top navigation bar of The New York Times website. It includes links for 'SECTIONS' and 'SEARCH', and buttons for 'SUBSCRIBE NOW', 'LOG IN', and a gear icon. Language options like 'U.S.', 'INTERNATIONAL', '中文', and 'ESPAÑOL' are also present. The main headline 'The New York Times' is displayed prominently. Below the navigation, there's a sidebar with the text 'The world's most trusted perspective.' and a large advertisement banner for a 4-week subscription offer.

SECTIONS SEARCH SUBSCRIBE NOW LOG IN

U.S. INTERNATIONAL 中文 ESPAÑOL

# The New York Times

Sunday, August 21, 2016 | Today's Paper | Video | 63°F | S. & P. 500 -0.14% ↓

4 weeks. Just €1.

World U.S. Politics N.Y. Business Opinion Tech Science Health Sports Arts Style Food Travel Magazine T Magazine Real Estate ALL

The screenshot shows the same homepage as above, but with a semi-transparent blue overlay covering the left side. Inside this overlay, the following HTML code is displayed:

```
<nav>
  <ul>
    <li>World</li>
    ...
  </ul>
</nav>
```

To the right of the code, the main content area is visible, featuring the headline 'This is the HTML for this element'. The rest of the page, including the sidebar and ads, is partially obscured by the overlay.

The screenshot shows a single news article from The New York Times. The headline reads 'Segregation, the Neighbor That'. Below the headline is a small image of a person's legs walking. To the right of the image is a sidebar with several links to other articles by different authors. At the bottom right, there's a section titled 'day Review' with a small image of a dog.

TRUMP

Ruddy Roye for The New York Times

## Segregation, the Neighbor That

Douthat: The Virtues of Reality  
Dowd: An Open Letter From Mr. Trump  
Kristof: This Land Is My Land (And Yours, Too!)  
Kirp: Conquering the

day Review

Zika: The Millennials' S.T.D.?

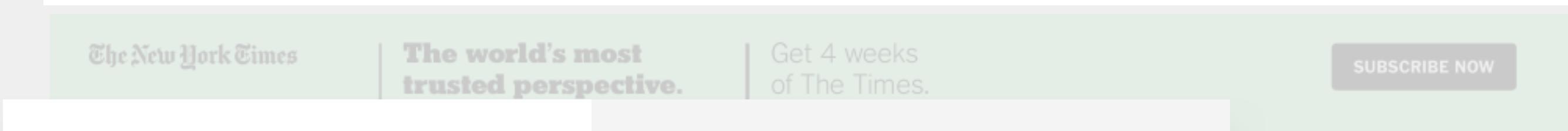
By KELLY MCBRIDE FOLKERS

Zika could threaten my neighborhood. Will it?



The screenshot shows the top navigation bar of The New York Times website. It includes links for 'SECTIONS' (with a search icon), 'SUBSCRIBE NOW', 'LOG IN', and a gear icon. Below the main title 'The New York Times' are language links: U.S., INTERNATIONAL, 中文 (Chinese), and ESPAÑOL (Spanish). The date is Sunday, August 21, 2016. A sidebar on the left says 'The world's most trusted perspective.' and another on the right says '4 weeks. Just €1.'

World U.S. Politics N.Y. Business Opinion Tech Science Health Sports Arts Style Food Travel Magazine T Magazine Real Estate ALL

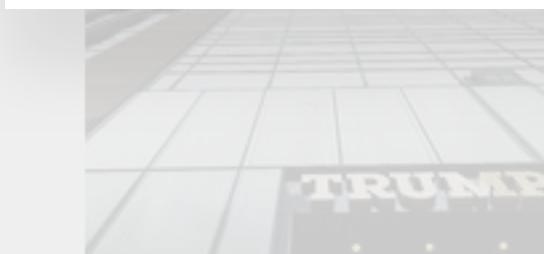


A green overlay box highlights the 'The world's most trusted perspective.' slogan from the previous screenshot.

The New York Times | The world's most trusted perspective. | Get 4 weeks of The Times. | SUBSCRIBE NOW

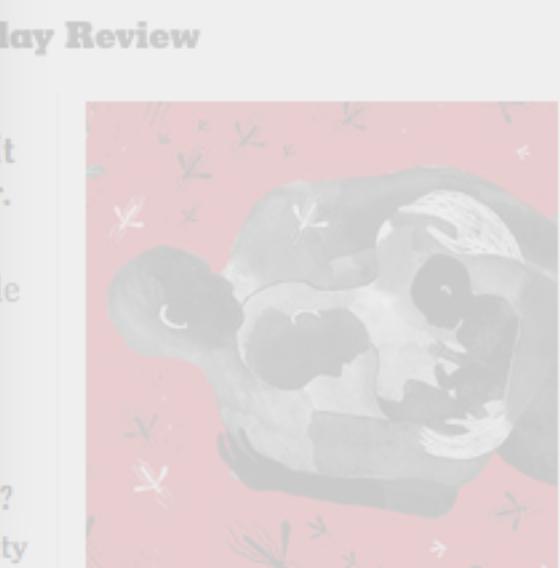
```
<nav>
  <ul>
    <li>World</li>
    ...
  </ul>
</nav>
```

the `<nav>` tag denotes navigation



Segregation, the Neighbor That

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World U.S. Politics N.Y. Business Opinion Tech Science Health Sports Arts Style Food Travel Magazine T Magazine Real Estate ALL

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`<nav>  
 <ul>  
 <li>World</li>  
 ...  
 </ul>  
</nav>`

the `<ul>` tag denotes an un-ordered list of items

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 </ul>  
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The screenshot shows the top navigation bar of The New York Times website. It includes links for 'SECTIONS' (with a three-line icon), 'SEARCH' (with a magnifying glass icon), 'SUBSCRIBE NOW', 'LOG IN', and a gear icon for settings. Below this is a language selection bar with 'U.S.', 'INTERNATIONAL', '中文' (Chinese), and 'ESPAÑOL' (Spanish). The main title 'The New York Times' is prominently displayed in a large serif font. Below the title, the date 'Sunday, August 21, 2016' and various news links like 'Today's Paper', 'Video', '63°F', and 'S. & P. 500 -0.14% ↓' are visible. A sidebar on the left says 'The world's most trusted perspective.' and another on the right says '4 weeks. Just €1.'

World U.S. Politics N.Y. Business Opinion Tech Science Health Sports Arts Style Food Travel Magazine T Magazine Real Estate ALL

A green horizontal banner across the page reads 'The New York Times' on the left, 'The world's most trusted perspective.' in the center, and 'Get 4 weeks of The Times.' on the right, followed by a 'SUBSCRIBE NOW' button.

```
<nav>
  <ul>
    <li>World</li>
    ...
  </ul>
</nav>
```

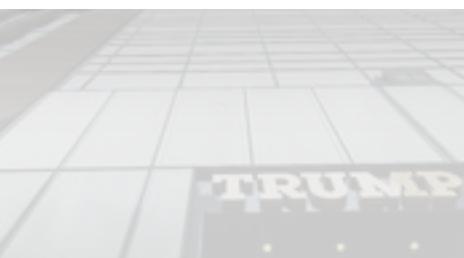
the `<li>` tags denotes each list element

day Review



Zika: The Millennials' S.T.D.?

By KELLY MCBRIDE FOLKERS  
Zika could threaten my



Ruddy Roye for The New York Times

Segregation, the Neighbor That

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SECTIONS SEARCH SUBSCRIBE NOW LOG IN

U.S. INTERNATIONAL 中文 ESPAÑOL

# The New York Times

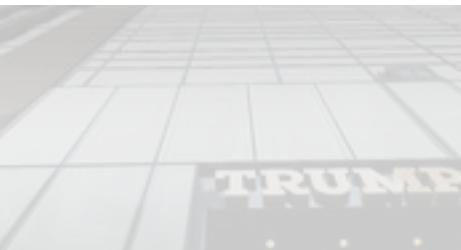
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World U.S. Politics N.Y. Business Opinion Tech Science Health Sports Arts Style Food Travel Magazine T Magazine Real Estate ALL

```
<nav>
  <ul>
    <li>World</li>
    ...
  </ul>
</nav>
```

But none of these tell us that it's a center aligned, set in size 13px font and has a border top 2px and grey border bottom



Segregation, the Neighbor That

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day Review



Zika: The Millennials' S.T.D.?

By KELLY MCBRIDE FOLKERS

Zika could threaten my

[≡ SECTIONS](#)[The New York Times](#)[SUBSCRIBE](#)[LOG IN](#)

# ***Trump's Empire: A Maze of Debts and Opaque Ties***

By SUSANNE CRAIG AUG. 20, 2016



Trump Tower on Fifth Avenue in Manhattan. An investigation into the real estate holdings of Donald J. Trump, the Republican presidential nominee, found complex partnerships and debts of at least double the amount to be gleaned from public filings he has made amid his campaign.

Damon Winter/The New York Times

The screenshot shows a news article from The New York Times. At the top, there is a navigation bar with links for 'SECTIONS', a search icon, and 'The New York Times'. To the right are buttons for 'SUBSCRIBE', 'LOG IN', and a gear icon. The main title of the article is 'Trump's Empire: A Maze of Debts and Opaque Ties', displayed prominently in a large, bold, dark font. Below the title, the author is listed as 'By SUSANNE CRAIG' on 'AUG. 20, 2016'. To the right of the author information are social sharing icons for Facebook, Twitter, Email, and Print. The article content begins with the opening paragraph: '

# Trump's Empire: A Maze of Debts and Opaque Ties

' followed by a descriptive text about Donald Trump's financial empire. The background of the article area features a photograph of the Trump Tower. At the bottom of the article, there is a caption: 'Trump Tower on Fifth Avenue. Donald J. Trump, the developer, has at least double the amount to be gleaned from public filings he has made amid his campaign.' and the credit 'Damon Winter/The New York Times'.

<h1>

Trump's Empire: A Maze  
of Debts and Opaque Ties

</h1>

similarly the <h1> tag lets us know what the page is about and that this heading precedes any content

# Tags for all the things

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The HTML5 spec contains over 200 tags that covers almost any conceivable type of content including...

# Tags for all the things

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`<abbr>` Abbreviations

`<abbr>lel</abbr>`

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`<abbr>` Abbreviations

`<abbr>lel</abbr>`

`<time>` Times (who'd have guessed)

`<time>12:00</time>`

# Tags for all the things

`<abbr>` Abbreviations

```
<abbr>lel</abbr>
```

`<time>` Times (who'd have guessed)

```
<time>12:00</time>
```

`<kbd>` Keyboard Input

```
<kbd>Option-Z</kbd>
```

# Tags for all the things

`<abbr>` Abbreviations

```
<abbr>lel</abbr>
```

`<time>` Times (who'd have guessed)

```
<time>12:00</time>
```

`<kbd>` Keyboard Input

```
<kbd>Option-Z</kbd>
```

`<sup>` Superscript

conditions apply<sup>2</sup>

# Attributes

# Attributes

Some tags would be pointless without attributes.

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<img>

This is an image tag but if we don't know what it's referencing then it's got no use.

# Attributes

Some tags would be pointless without attributes.

<img>

This is an image tag but if we don't know what it's referencing then it's got no use.



# Attributes

Some tags would be pointless without attributes.

```

```

In this case `<img>` has  
a required 'src' attribute.

# Attributes

Some tags would be pointless without attributes.

```

```

Much better.



# New tags

# New tags

Some of the most important recent additions to the HTML specification were `<picture>`, `<audio>` and `<video>` which introduce a wider range of media options for the web.

# New tags

Some of the most exciting additions to the HTML specification were `<picture>`, `<audio>` and `<video>` which introduce augmented media options for web pages.

Retro demo time

PART 8

Introduction

HTML

CSS

---

Dev

Infrastructure

# Cascading Style Sheets

# Cascading Style Sheets

CSS is the style layer of a web page. It applies design to the structure and content defined by the HTML.

# Cascading Style Sheets

CSS is most commonly written using classes to define styles, however tags can also be used.

# Cascading Style Sheets

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```
h1 {  
    font-family: Georgia;  
}  
.quote {  
    background-color: green;  
}
```

# Cascading Style Sheets

CSS is most commonly written using classes to define styles, however tags can also be used.

```
h1 {  
    font-family: Georgia;  
}  
.quote {  
    background-color: green;  
}
```

This selector applies the font ‘Georgia’ to all elements with the `<h1>` tag.

# Cascading Style Sheets

CSS is most commonly written using classes to define styles, however tags can also be used.

```
h1 {  
    font-family: Georgia;  
}  
.quote {  
    background-color: green;  
}  


...</div>


```

This selector applies a green background color to all elements with the class ‘quote’.

# Inline vs block

# Inline vs block

Most styles can be separated into inline or block.

# Inline vs block

Most styles can be separated into inline or block.

**Block level** styles are paragraphs, headings and other units that comprise a self contained unit.

# Inline vs block

Most styles can be separated into inline or block.

**Inline** styles relate to dependent styles such as italics or bold.

# Inline vs block

|||  
Lorem ipsum dolor sit amet,  
consectetur adipisicing elit, sed  
do eiusmod tempor incididunt  
ut labore et dolore magna  
aliqua. Ut enim ad minim  
veniam.

Block

|||  
Lorem ipsum dolor sit amet,  
consectetur adipisicing elit, sed  
do eiusmod tempor incididunt  
ut labore et dolore magna  
aliqua. Ut enim ad minim  
veniam.

Inline

# Boxiness

All block level elements in CSS are boxes with content, padding, border and margin.

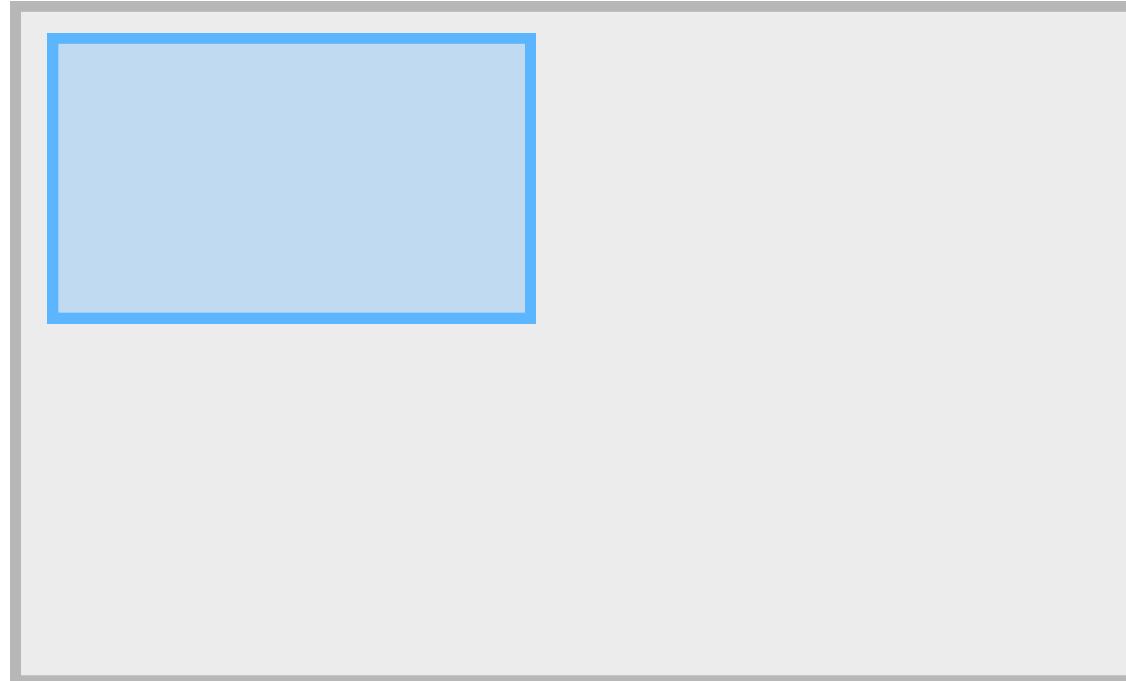


# Layouts

# Layouts

Most layouts are achieved using a style property called float. Floats allow elements to sit side-by-side creating the foundation for grid layouts.

# Layouts



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

# Layouts



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```

# Layouts



```
.my-div {  
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```

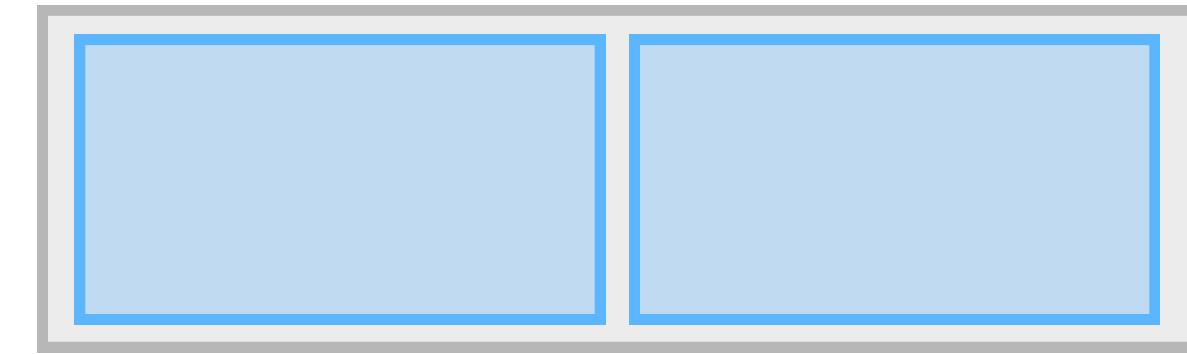


```
.my-div {  
  width: 50%;  
  float: left;  
}
```

# Layouts



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



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

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

# Typography

To display fonts on a user's browser that the user doesn't have pre-installed, a website must use webfonts.

# Typography

Unfortunately vendor differences mean we must use several file types for the same font.

# Typography

```
@font-face {  
  font-family: 'Journal';  
  src: url('http://your-own.site/fonts/journal.woff') format('woff'),  
       url('http://your-own.site/fonts/journal.svg#Journal') format('svg'),  
       url('http://your-own.site/fonts/journal.ttf') format('truetype'),  
       url('http://your-own.site/fonts/journal.eot'),  
       url('http://your-own.site/fonts/journal.eot?#iefix') format('embedded-opentype');  
  font-weight: normal;  
  font-style: normal;  
}
```

# Animation

# Animation

Most basic CSS animation method is transitions.

# Animation

Most basic CSS animation method is transitions.

- Transitions animate changes in CSS properties

# Animation

Most basic CSS animation method is transitions.

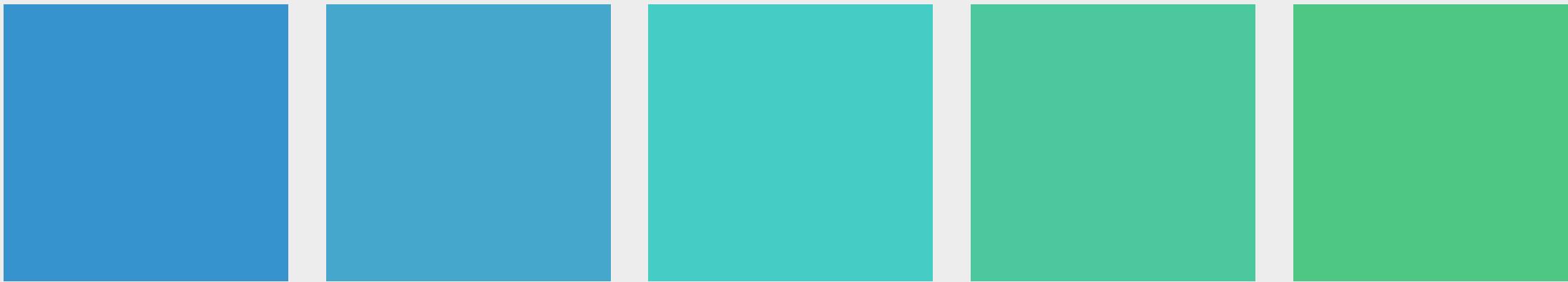
- Transitions animate changes in CSS properties
- Not all properties can be transitioned

# Animation

Most basic CSS animation method is transitions.

- Transitions animate changes in CSS properties
- Not all properties can be transitioned

# Animation



```
<div class="element"></div>
```

```
.element {  
  background: #3693CE;  
  transition: background 1s  
}
```

```
<div class="element green"></div>
```

```
.green {  
  background: #4EC784;  
}
```

# Animation

Demo time

# Transformations

# Transformations

- Alter the co-ordinate space

# Transformations

- Alter the co-ordinate space
- The element remains in the same ‘position’

# Transformations

- Alter the co-ordinate space
- The element remains in the same ‘position’
- Skews, translations, rotations and scale

# Transformations

- Alter the co-ordinate space
- The element remains in the same ‘position’
- Skews, translations, rotations and scale
- Are two or three dimensional

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- Alter the co-ordinate space
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Demo time

# Timeline animation

# Timeline animation

- Animations are defined using @keyframes

# Timeline animation

- Animations are defined using @keyframes
- Progress is defined in percentiles

# Timeline animation

- Animations are defined using @keyframes
- Progress is defined in percentiles
- Animations assigned using selectors

# Timeline animation

- Animations are defined using `@keyframes`
- Progress is defined in percentiles
- Animations assigned using selectors

```
@keyframes my-anim {  
  0% { opacity: 0; }  
  50% { opacity: 1; }  
 100% { opacity: 1; }  
}  
  
.my-element {  
  animation-name: my-anim;  
  animation-duration: 1s;  
  animation-iteration-count: infinite;  
}
```

# Timeline animation

Demo time

PART 8

Introduction

HTML

CSS

Dev

---

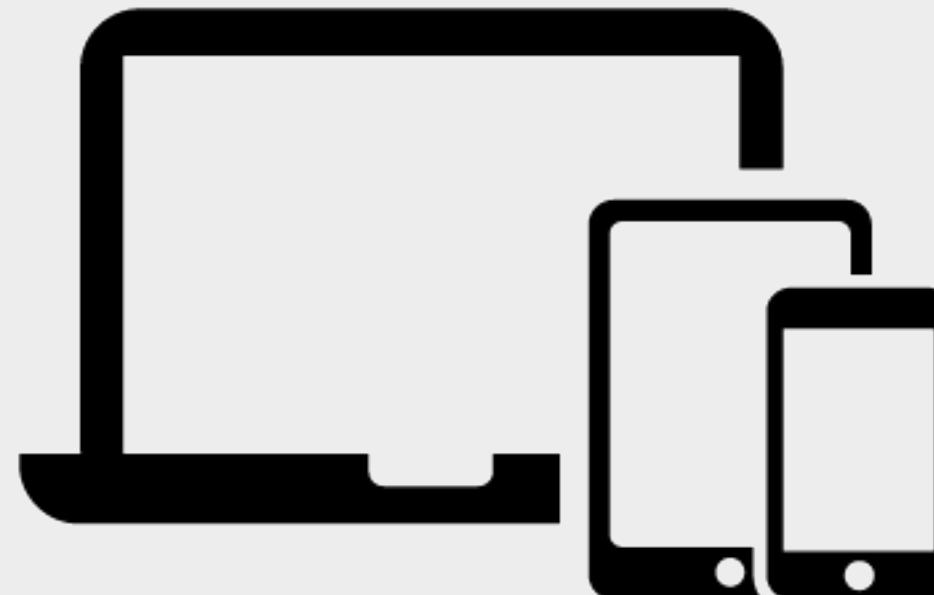
Infrastructure

# Front-end / Back-end

Development is split between two major types.

# Front-end / Back-end

The **front-end** is concerned with everything that happens in the browser.



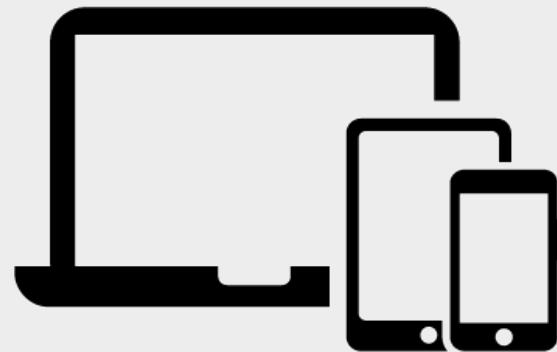
# Front-end / Back-end

The **back-end** is concerned with everything that happens before content is delivered to the browser.



# Front-end / Back-end

Traditionally the languages of both were separate.



HTML, CSS, Javascript



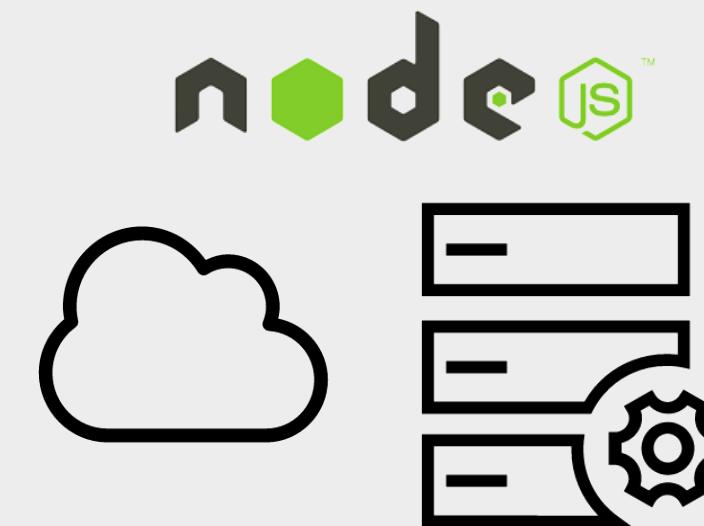
Java, PHP, Ruby, C

# Front-end / Back-end

NodeJS has changed this for some companies.



HTML, CSS, Javascript



Javascript

# Agile

# Agile

- A set of principles for modern software dev

# Agile

- A set of principles for modern software dev
- Agile is meant to be what it sounds like;  
Lightweight, fast, flexible, responsive

# Agile

- A set of principles for modern software dev
- Agile is meant to be what it sounds like;  
Lightweight, fast, flexible, responsive
- Implemented in response to the connected  
and frequent nature of software delivery

# Agile rituals

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Supporting the principles of agile, the following practices are applied by Nine Digital

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- Daily ‘stand-up’ to allow all team members to understand current progress

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Supporting the principles of agile, the following practices are applied by Nine Digital

- Daily ‘stand-up’ to allow all team members to understand current progress
- Two-week ‘sprints’ to complete ‘stories’
- Retros at the end of ‘sprints’ to get feedback

# Agile rituals

Supporting the principles of agile, the following practices are applied by Nine Digital

- Daily ‘stand-up’ to allow all team members to understand current progress
- Two-week ‘sprints’ to complete ‘stories’
- Retros at the end of ‘sprints’ to get feedback
- MVP principle

# Git / Version Control

# Git / Version Control

- Every commit (code change) by a dev is logged

# Git / Version Control

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PART 8

Introduction

HTML

CSS

Dev

Infrastructure

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# Continuous Integration

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# Continuous Integration

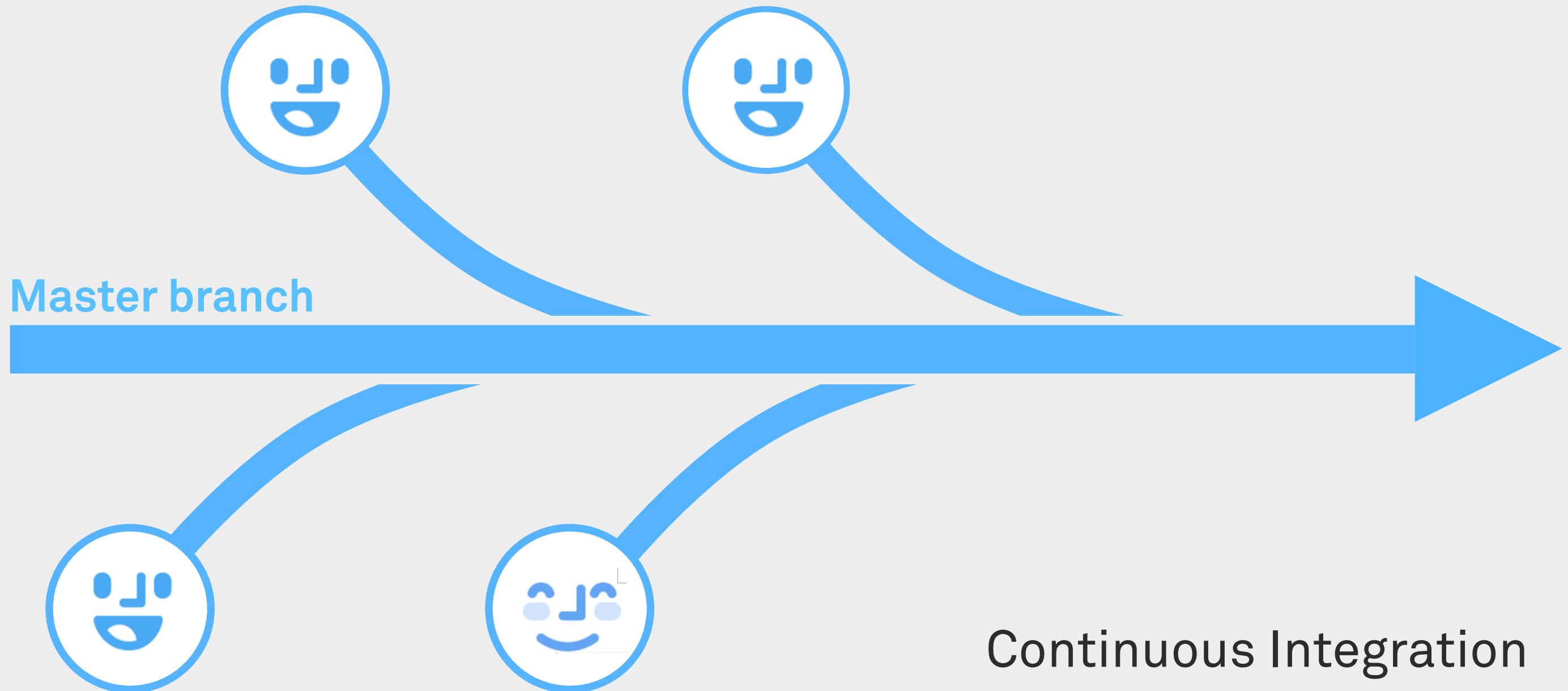
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# CI Server

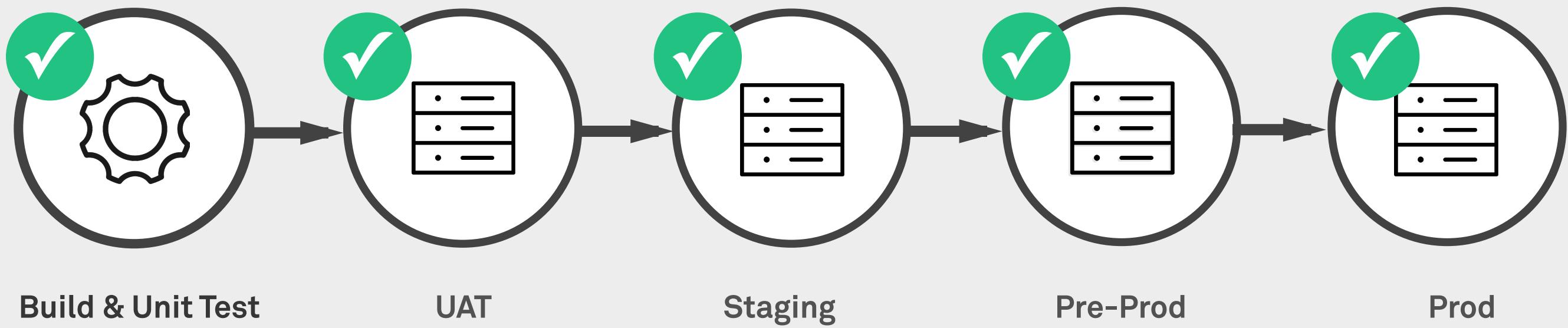
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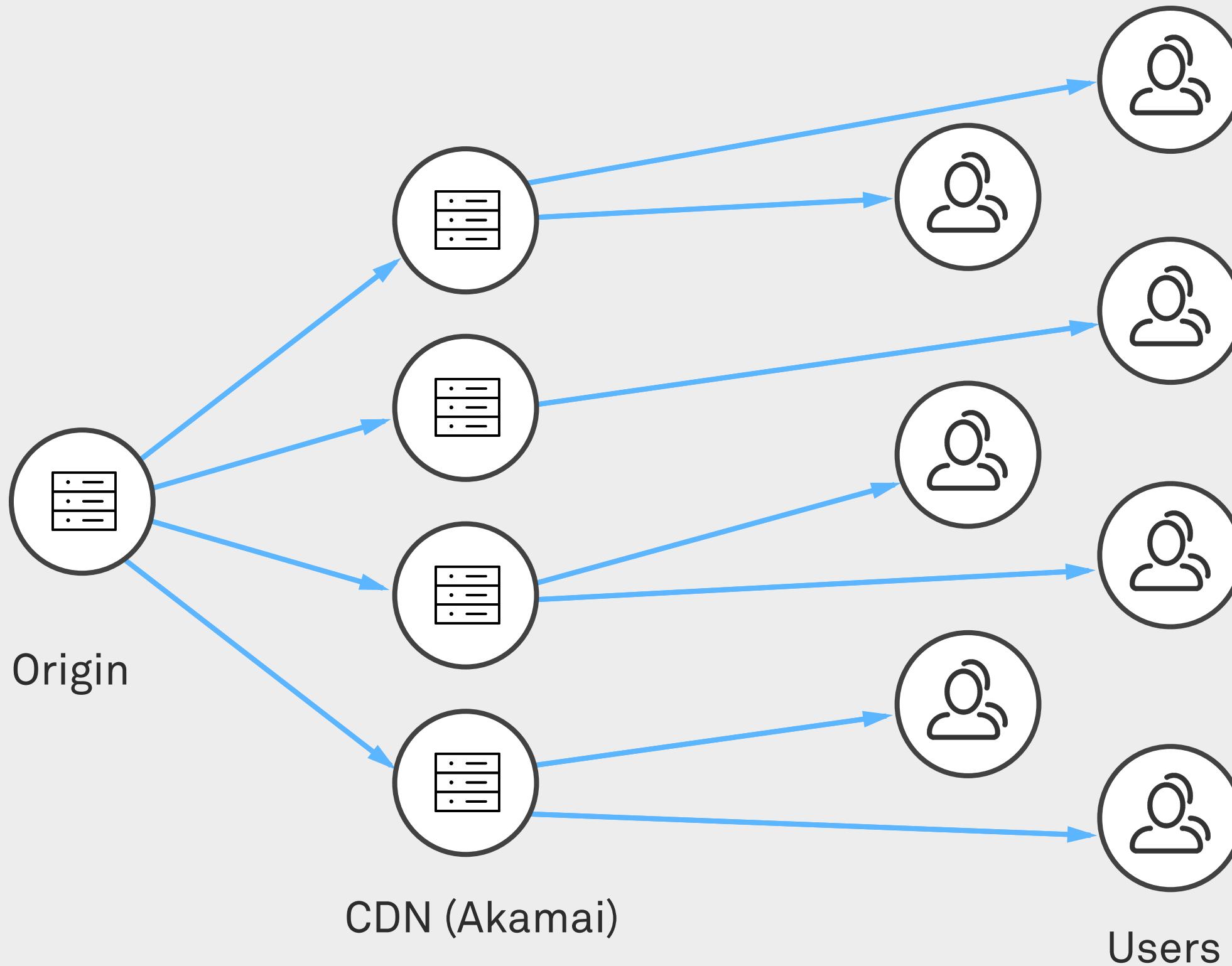
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- Related to the concept of continuous integration is ‘continuous deployment’ which marries the agile concept of short release cycles.

# CI Pipeline



# CDNs

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# What we've discussed

# What we've discussed

## HTML

What it is

Tags

Attributes

Picture

Video

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## HTML

What it is

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## CSS

What it is

Box model

Positioning

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## Dev

Front / back

Agile

JIRA

Git / Stash

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Picture  
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## CSS

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## Dev

Front / back  
Agile  
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Git / Stash

## Infrastructure

Cont. Integration  
Deployment  
CDN / Akamai  
Image Resizer



Thank you.