

Internet Technologies

Introduction to HTML and CSS – Part 2

Block, inline-block, class, id, css pseudoclasses



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Types of HTML elements

Each HTML element is categorized by the HTML spec into one of the following 3 categories:

1. block: large blocks of content, has height and width

`<p>`, `<h1>`, `<blockquote>`, ``, ``, `<table>`

2. inline: small amount of content, no height or width

`<a>`, ``, ``, `
`

a. inline block: inline content with height and width

``

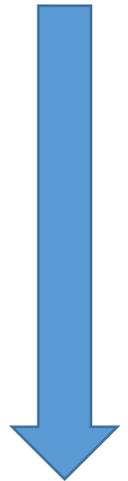
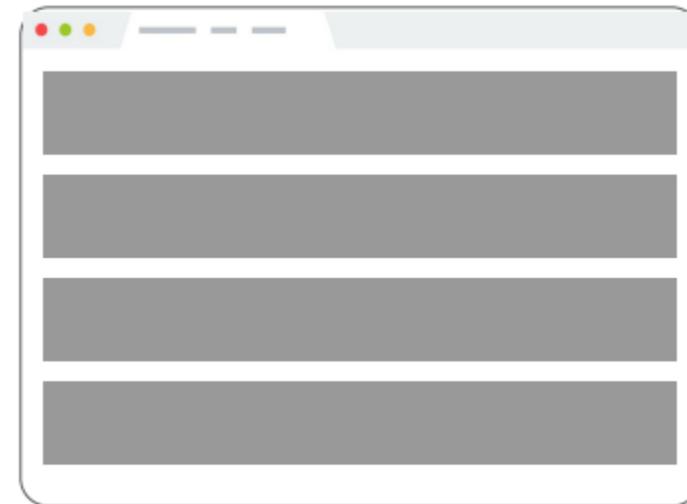
3. metadata: information about the page, usually not visible

`<title>`, `<meta>`

Block elements



- Examples:
`<p>`, `<h1>`, `<blockquote>`, ``, ``, `<table>`
- Take up the **full width of the page**
(**flows top to bottom**)
- Have a height and width
- **Can** have block or inline elements as children



Example: Block



The screenshot shows a web browser window with a single tab titled "Block example". The address bar contains the file path: `file:///C:/Users/csp5pa1/Desktop/Web%20Programming%20&%20Appl...`. The page content consists of a large heading "About vrk" and a paragraph "She likes *puppies*". A light blue box in the bottom right corner of the browser window displays the corresponding HTML code:

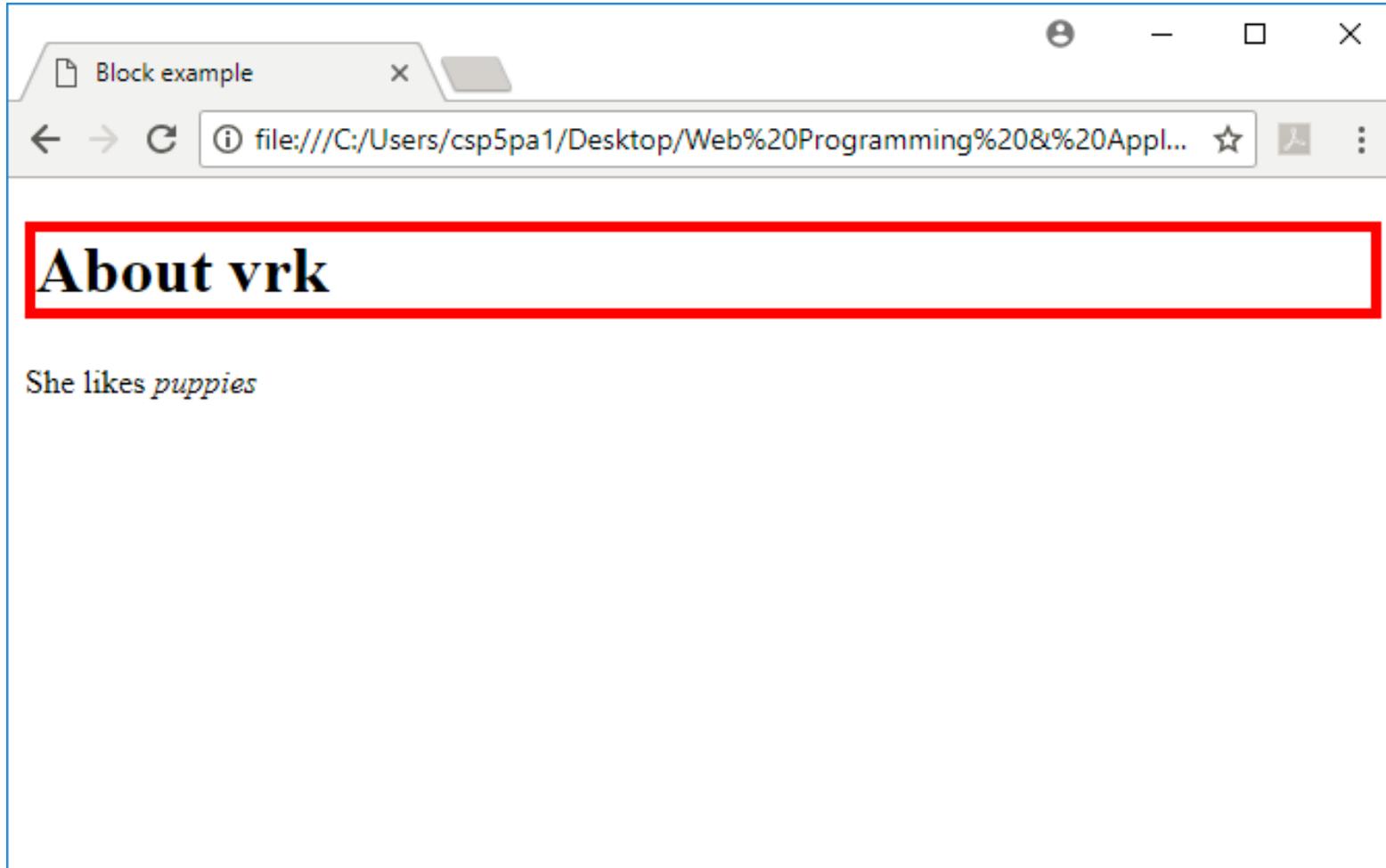
```
<h1>About vrk</h1>
<p>
  She likes <em>puppies</em>
</p>
```

Q: What does this look like in the browser?

```
h1 {  
  border: 5px solid red;  
}
```



A:



Block-level:

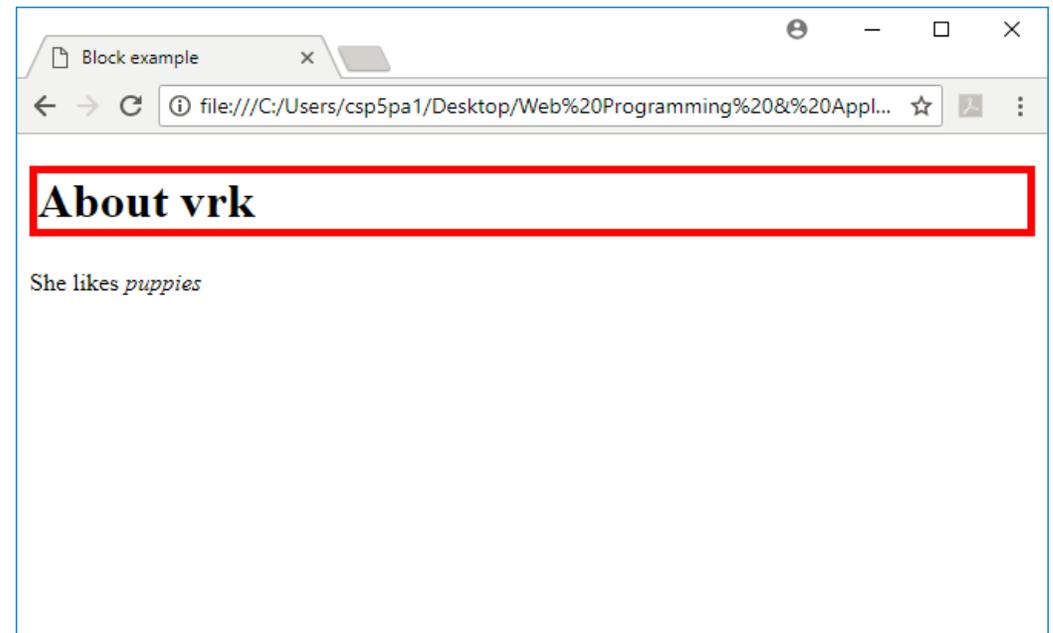
extends the full width of the page



```
h1 {  
  border: 5px solid red;  
}
```

```
<h1>About vrk</h1>  
<p>  
  She likes <em>puppies</em>  
</p>
```

- `<h1>` is block-level, so it extends the full width of the page by default
- Note how block-level elements (`h1`, `p`) flow top to bottom

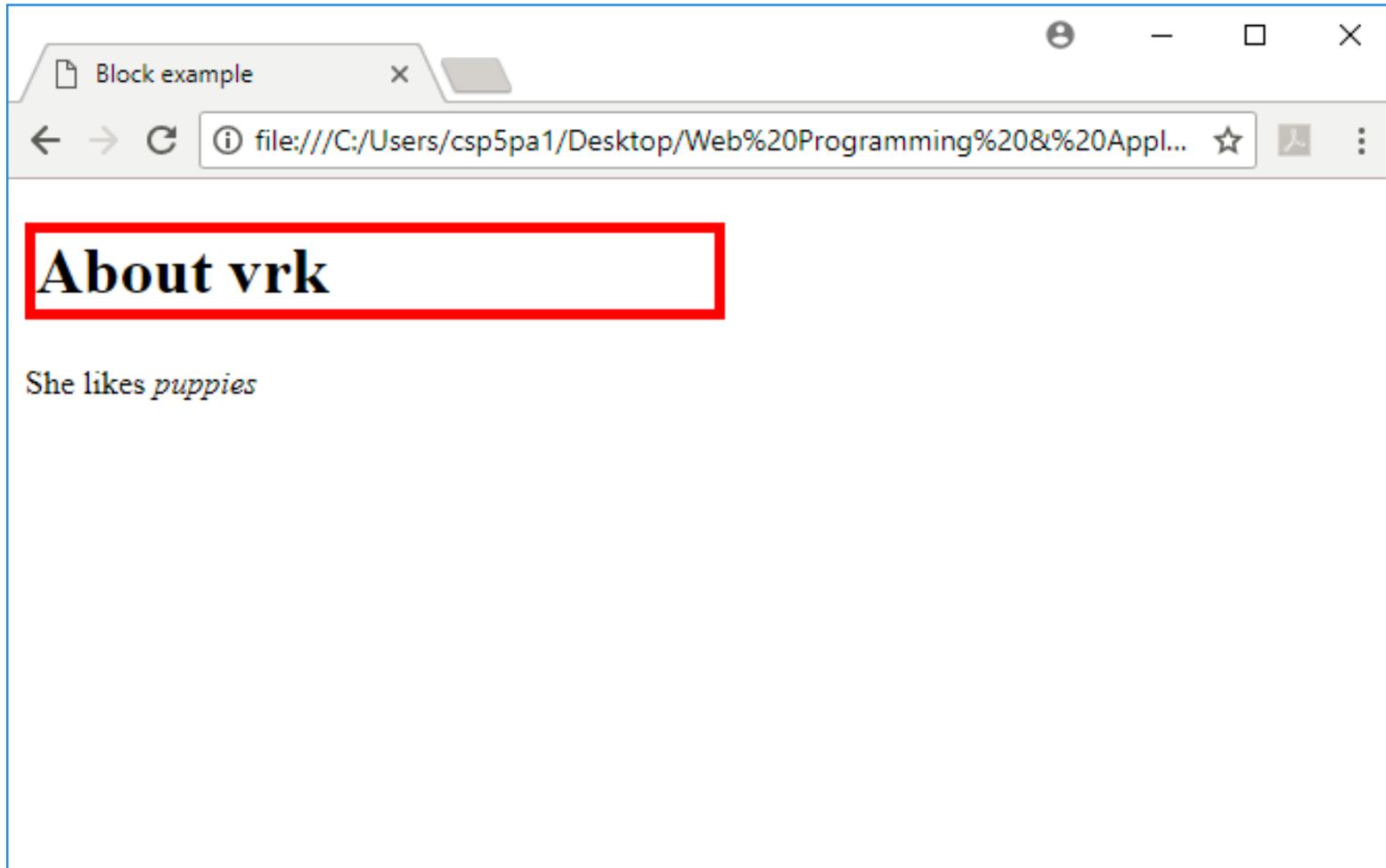


Q: What does this look like in the browser?

```
h1 {  
  border: 5px solid red;  
  width: 50%;  
}
```



A:



Block-level:

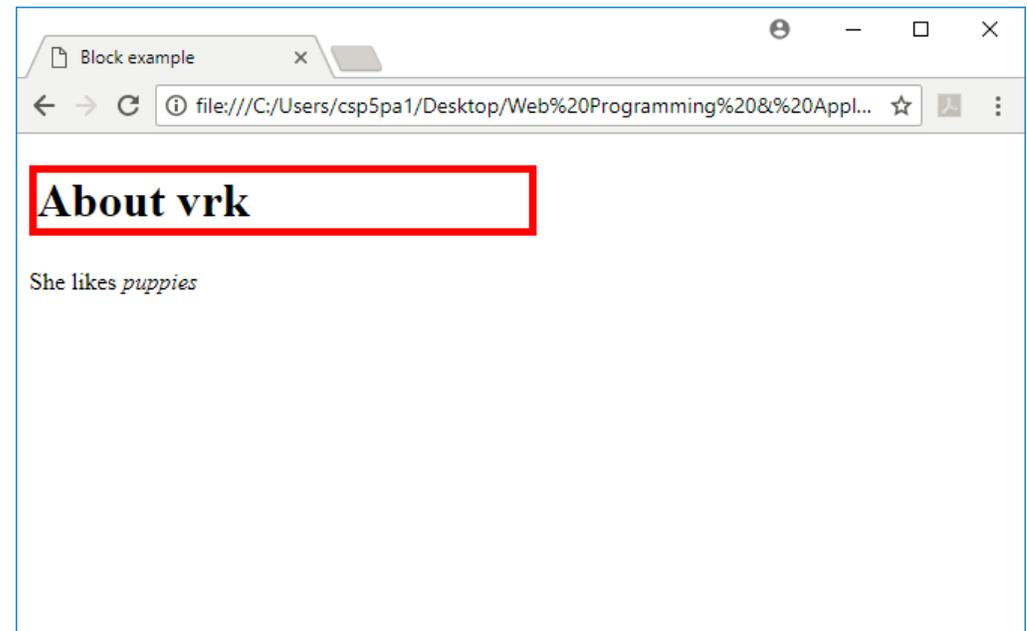
width can be modified



```
h1 {  
  border: 5px solid red;  
  width: 50%;  
}
```

```
<h1>About vrk</h1>  
<p>  
  She likes <em>puppies</em>  
</p>
```

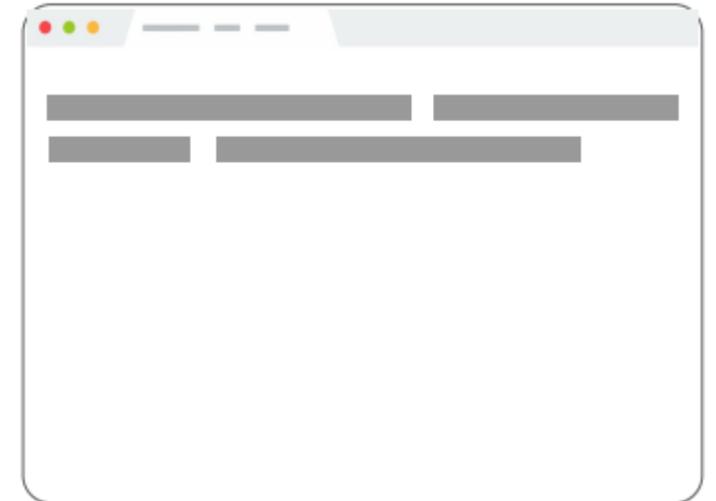
- `<h1>` is block-level, so its width **can** be modified
- Block-level elements still flow top to bottom



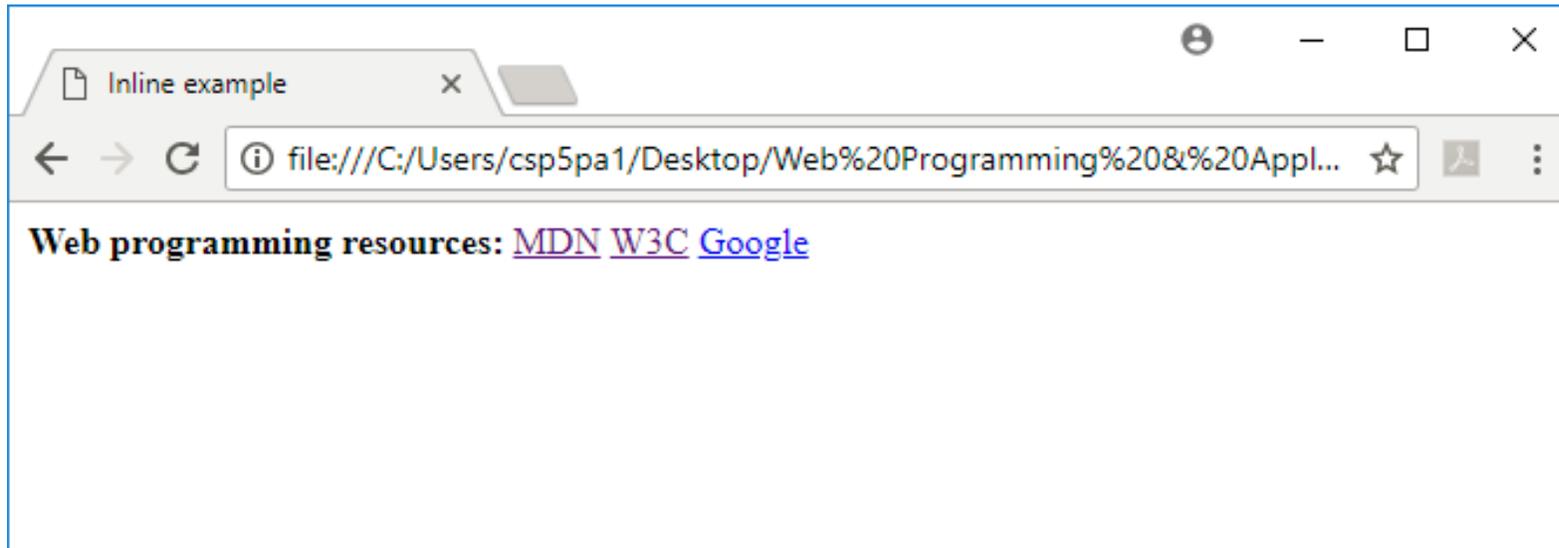
Inline elements



- Examples:
`<a>`, ``, ``, `
`
- Take up only as much width as needed (flows left to right)
- Cannot have height and width
- **Cannot** have a block element child
- **Cannot** be positioned (i.e. CSS properties like `float` and `position` do not apply to inline elements)
 - Must position its containing block element instead
- Only left & right padding/margin have effect on inline element (we will speak later about that)



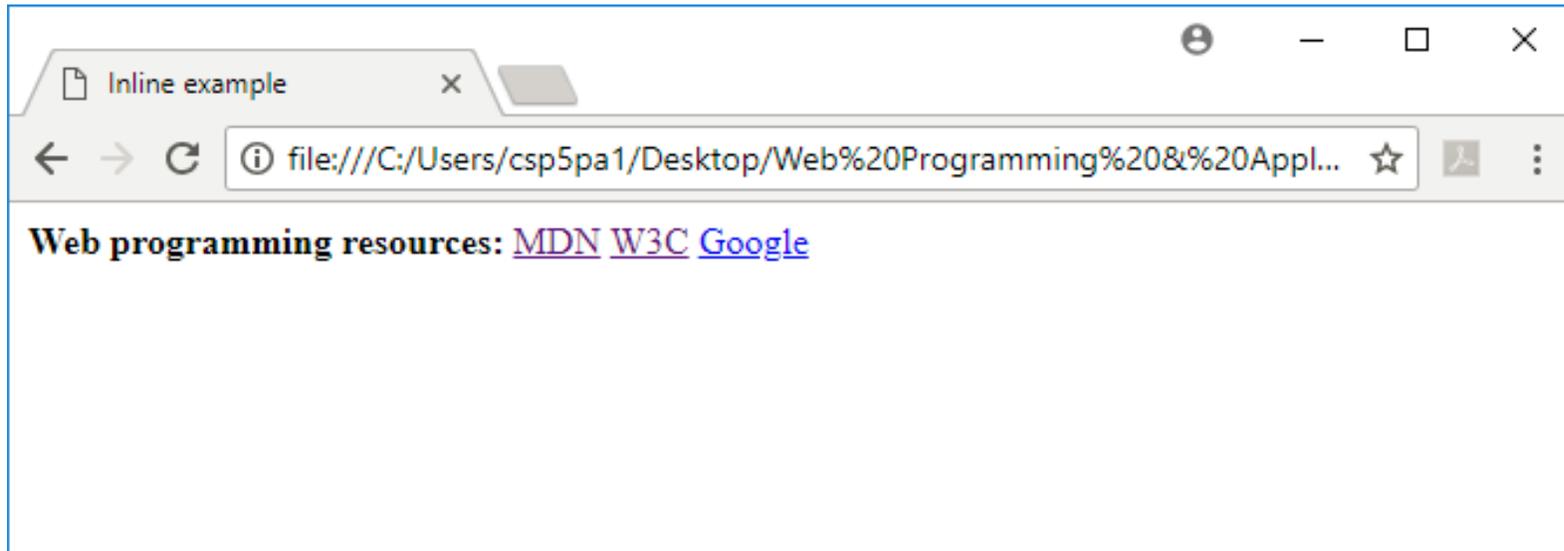
Example: Inline



```
<strong>Web programming resources:</strong>  
<a href="https://developer.mozilla.org/en-US/">MDN</a>  
<a href="https://www.w3.org/">W3C</a>  
<a href="https://google.com">Google</a>
```

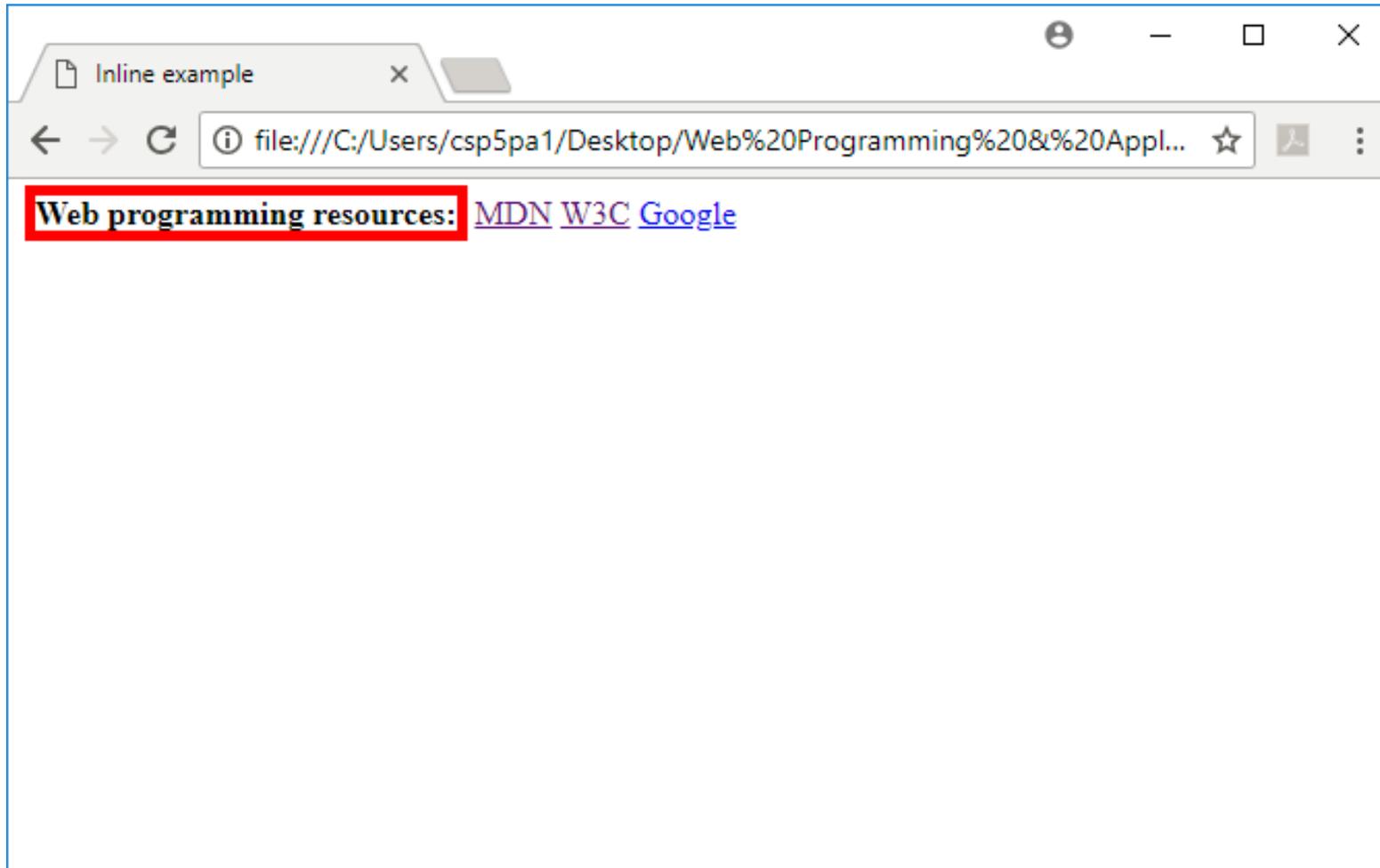
Q: What does this look like in the browser?

```
strong {  
  border: 5px solid red;  
  width: 1000px;  
}
```



```
<strong>Web programming resources:</strong>  
<a href="https://developer.mozilla.org/en-US/">MDN</a>  
<a href="https://www.w3.org/">W3C</a>  
<a href="https://google.com">Google</a>
```

A:



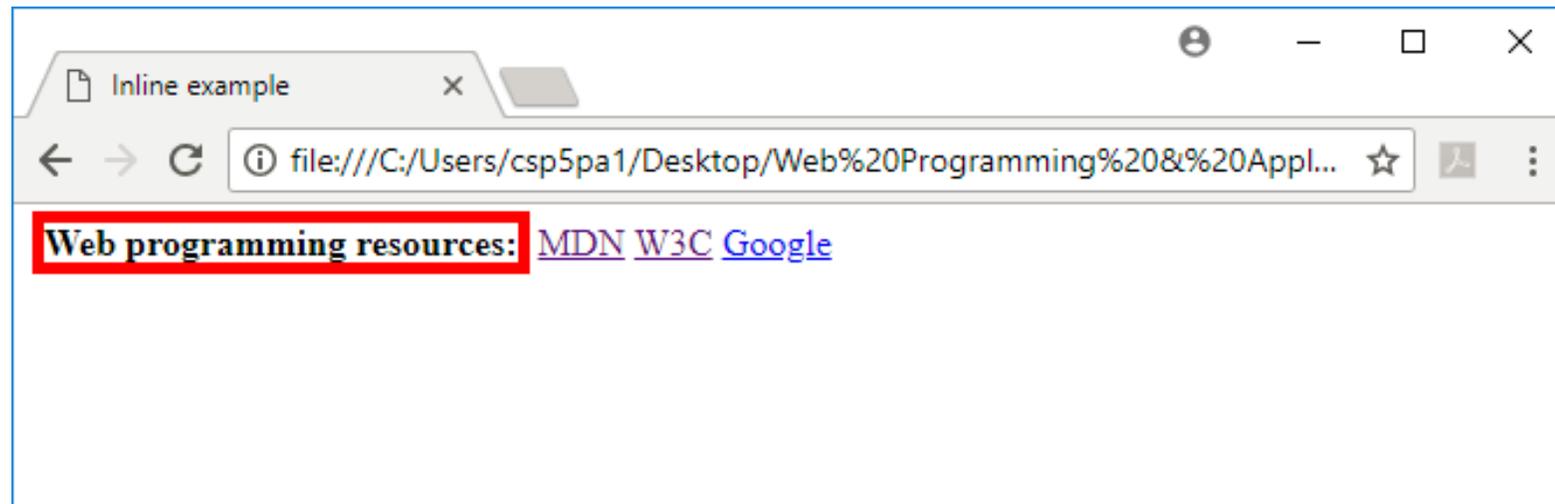
Inline elements ignore width

width cannot be modified



```
strong {  
  border: 5px solid red;  
  width: 1000px;  
  /* Will not work;  
  strong is inline! */  
}
```

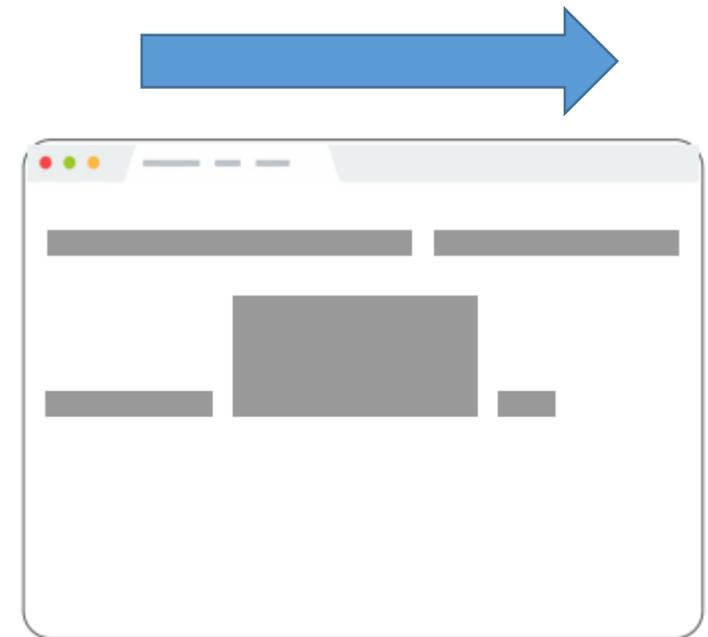
```
<strong>Web programming resources:</strong>  
<a href="https://developer.mozilla.org">MDN</a>  
<a href="https://www.w3.org/">W3C</a>  
<a href="https://google.com">Google</a>
```



inline-block



- Examples:
``, & any element with `display: inline-block;`
- Width is the size of the content, i.e. it takes only as much space as needed (flows left to right)
- **Can** have height and width
- **Can** have a block element as a child
- **Can** be positioned (i.e. CSS properties like `float` and `position` apply)
- `padding/margin` have effect on all sides of `inline-block` element





Example: Inline-block

Q: What does this look like in the browser?

```
img {  
  width: 50px;  
}
```

```
  
  
  
  

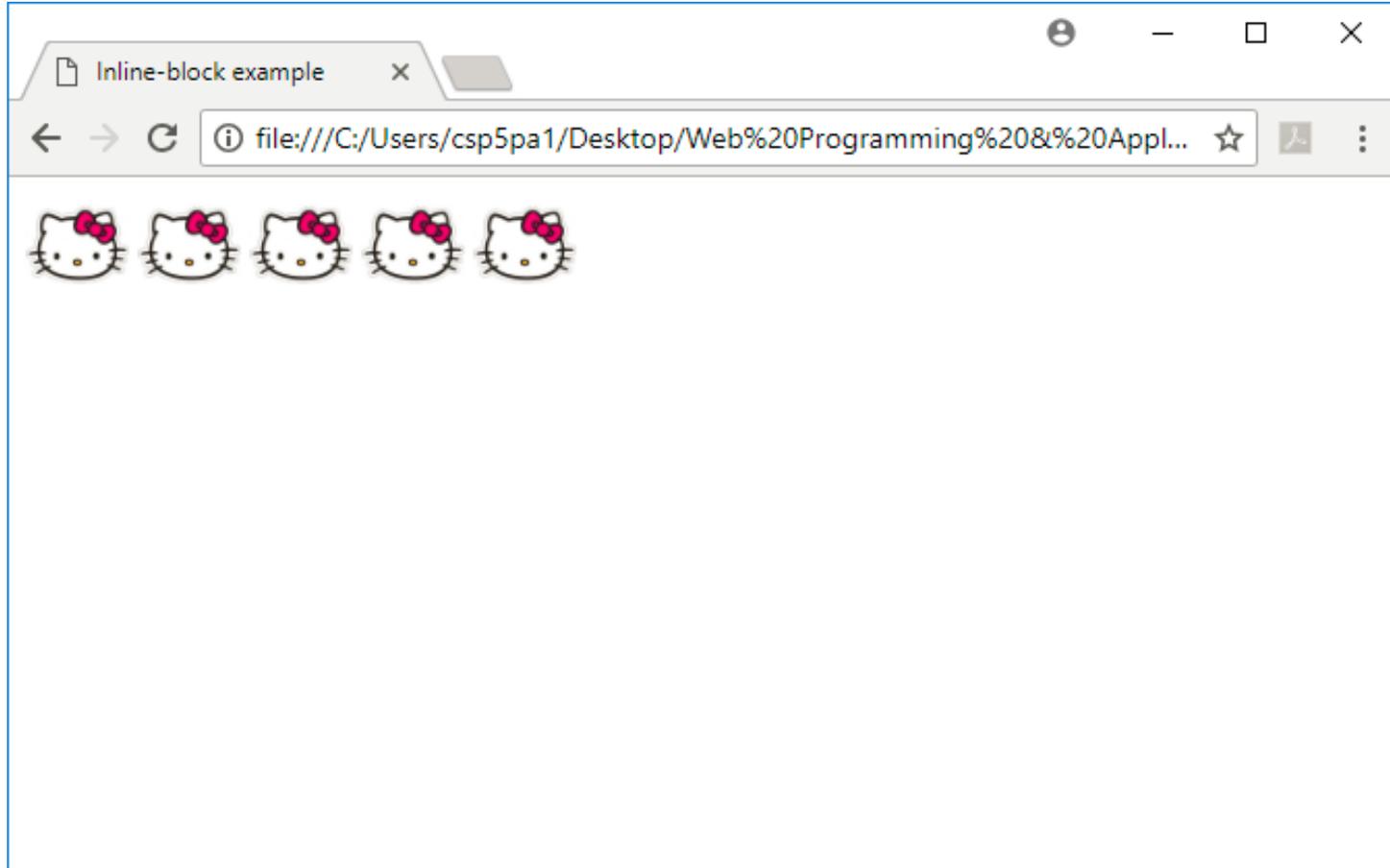
```

```

```



A:

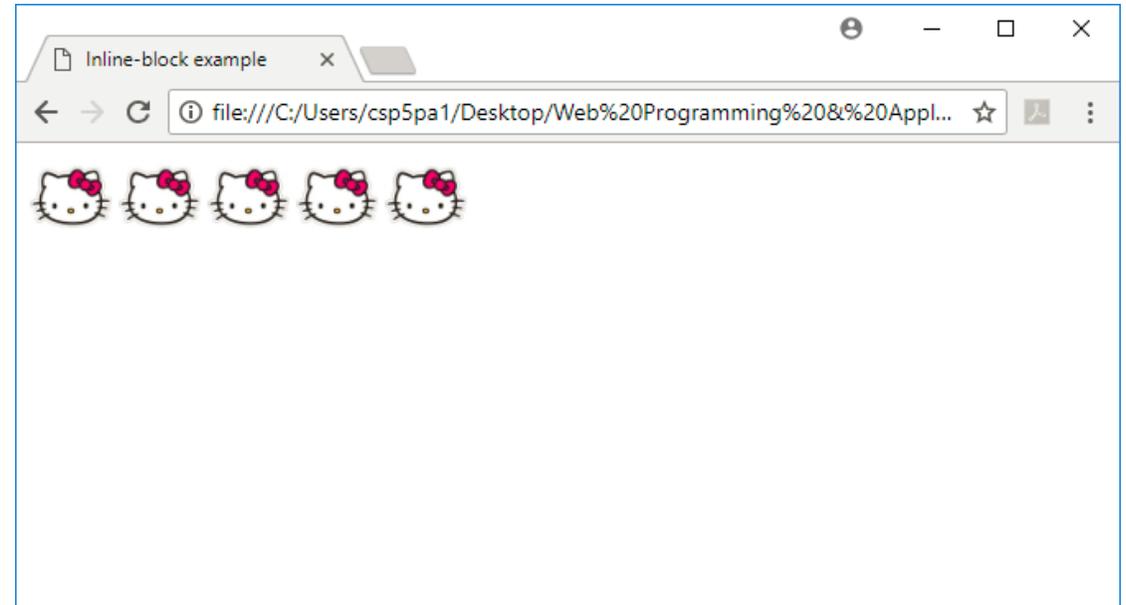


Inline-block

Has width and height; flows left to right



- **Can** set width on inline-block element, so image width is set to 50px.
- `inline-block` flows left to right, so images are right next to each other.



```
img {  
  width: 50px;  
}
```

```
  
  
  
  

```



The display CSS property

- You can change an element's default rendering type by changing the `display` property. Examples:

```
p {  
  display: inline;  
}
```

```
a {  
  display: block;  
}
```

- Possible values for `display`:
 - `block`
 - `inline`
 - `inline-block`
 - some others: see [here](#)

Review



1. **block**: flows **top-to-bottom**; **has** height and width

`<p>`, `<h1>`, `<blockquote>`, ``, ``, `<table>`

2. **inline**: flows **left-to-right**, **does not have** height or width

`<a>`, ``, ``, `
`

a. **inline block**: flows **left-to-right**, **has** height and width equal to size of the content

``

Questions?

Moral of the story:

If your CSS isn't working, see if you're trying to apply block-level properties to inline elements



Example: h1 vs strong

`<h1>` heading is on a line of its own,
and `` is not. -- Why?

Because `h1` is a block-level element,
and `strong` is an inline-level element

<code><h1>CS 425: Internet Technologies</h1></code>	→	CS 425: Internet Technologies
<code>Announcements</code>	→	Announcements
<code>4/3: Homework 0 is out!
</code>		4/3: Homework 0 is out!
<code>4/3: Office hours are now posted.
</code>		4/3: Office hours are now posted.

<code><h1>CS 425: Internet Technologies</h1></code>	CS 425: Internet Technologies
<code>Announcements
</code>	Announcements
<code>4/3: Homework 0 is out!
</code>	4/3: Homework 0 is out!
<code>4/3: Office hours are now posted.
</code>	4/3: Office hours are now posted.



Example: `text-align` mystery

- Set `text-align: center;` on the `<h1>` and works!
- Set `text-align: center;` on the `<a>` tag but does not work -- **Why?**

```
h1 { /* works! */  
  text-align: center;  
}
```

CS 425: Internet Technologies

Announcements

4/3: Homework 0 is out!

4/3: Office hours are now posted.

```
a { /* fails :( */  
  text-align: center;  
}
```

[View Course Contract](#)

Let's try looking at the [MDN description of text-align](#) ...

Example: `text-align` mystery



- The `text-align` CSS property describes **how content** like text is **aligned within its parent block** element. `text-align` does not control the alignment of block elements, only their inline content.

Initial value

`start`, or a nameless value that acts as `left` if `direction` is `ltr`, `right` if `direction` is `rtl` if `start` is not supported by the browser.

Applies to

block containers

Example: `text-align` demystified!



- **Why?** From the [spec](#), can't apply `text-align` to an inline element; must *either* apply `text-align` to its block container, *or* set `a { display : block; }`

Solution 1

```
p {  
  text-align: center;  
}
```

CSS

```
<p>  
  <a href="https://cs.ucy.ac  
    View Course Contract  
  </a>  
</p>
```

HTML

Solution 2

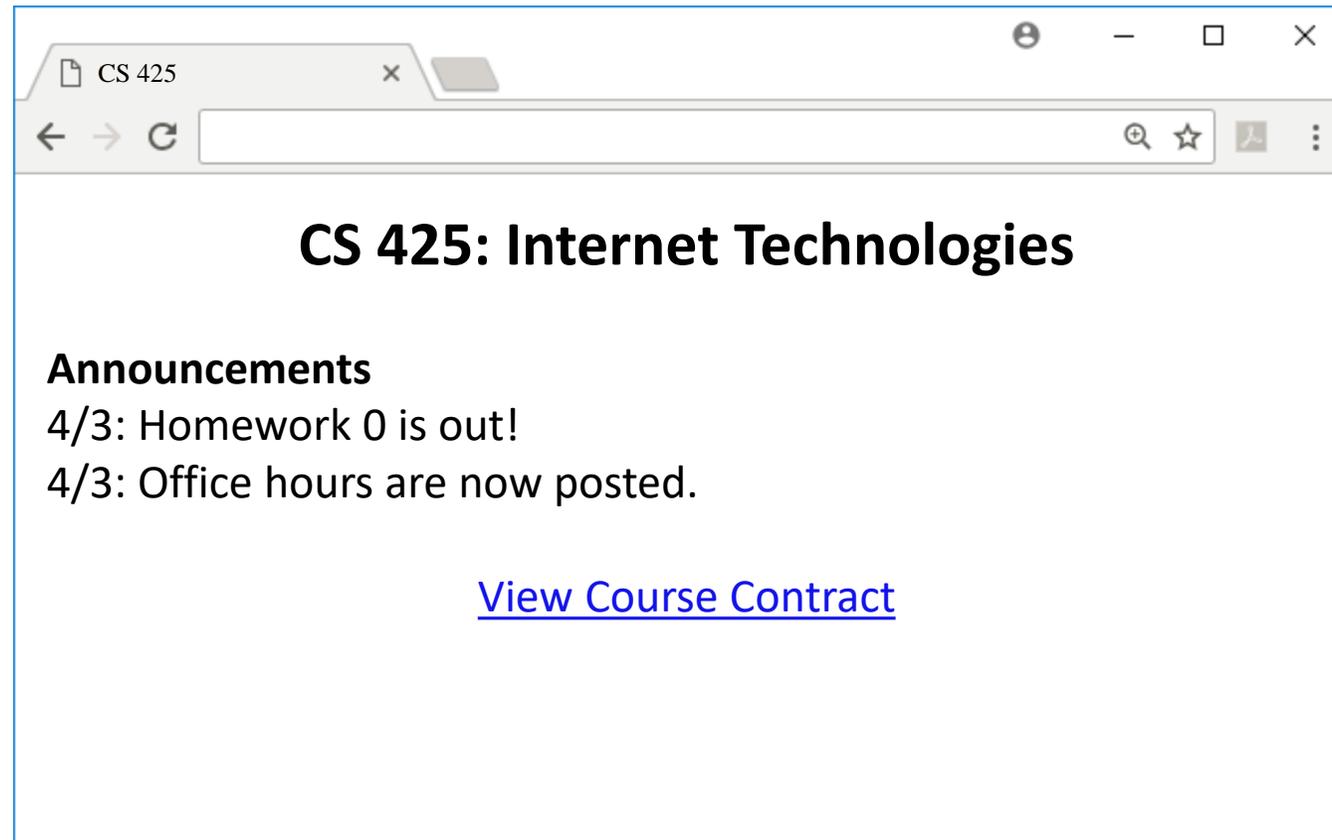
```
a {  
  display: block;  
  text-align: center;  
}
```

CSS

```
<a href="https://cs.ucy.ac.cy  
  View Course Contract  
</a>
```

HTML

Example: `text-align` demystified!



<div> and



- Two generic tags with no intended purpose or style:
 1. <div> : a generic **block** element
 2. : a generic **inline** element



 in action

- We can use as a generic inline HTML container:

CSS

```
span {  
  background-color: yellow;  
}
```

HTML

```
<strong>Announcements</strong><br/>  
4/3: Homework 0 is out! <span>Due Friday</span>.<br/>  
4/3: Office hours are now posted.
```

CS 425: Internet Technologies

Announcements

4/3: Homework 0 is out! **Due Friday**.

4/3: Office hours are now posted.

[View Course Contract](#)



Multiple generic containers?

- But won't we often want multiple generic containers?
- How do we distinguish two generic containers?
- In other words, how do we select a subset of elements instead of all elements on the page?

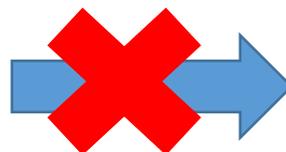
CS 425: Internet Technologies

Announcements

4/3: Homework 0 is out! **Due Friday.**

4/3: Office hours are **now** posted.

[View Course Contract](#)



```
span {  
    background-color: yellow;  
}  
span {  
    background-color: cyan;  
}
```

Colliding styles ...

Classes and ids



- There are 2 basic types of CSS selectors:

Element selector		Selected elements
ID selector	#abc	element with id="abc"
Class selector	.abc	elements with class="abc"

```
<h1 id="title">Homework</h1>  
<em class="hw">HW0</em> is due Friday.<br/>  
<em class="hw">HW1</em> goes out Monday.<br/>  
<em>All homework due at 11:59pm.</em>
```



Classes and ids

```
<h1 id="title">Homework</h1>  
<em class="hw">HW0</em> is due Friday.<br/>  
<em class="hw">HW1</em> goes out Monday.<br/>  
<em>All homework due at 11:59pm.</em>
```

HTML

```
#title {  
  color: purple;  
}  
  
.hw {  
  color: hotpink;  
}
```

CSS

Homework

HW0 is due Friday.

HW1 goes out Monday.

All homework due at 11:59pm.



More on `class` and `id`

- Special HTML attributes that can be used on **any** HTML element
 - **class**: Applied on 1 or more elements; identifies a **collection** of elements
 - **id**: Applied on exactly 1 element per page; identifies **one unique** element
- There are no browser defaults for any `id` or `class`
 - Adding a class name or id to an element does nothing to that element by default
 - They require CSS to target them and apply styling
- Can apply multiple classes by space-separating them:
`HW1`
 - Highest priority: class declared last in the stylesheet file (.css)
- Often used with `span` and `div` to create generic elements: e.g.
`` is like creating a "highlight" element

More on `class` and `id`



- `classes` have no special abilities in the browser
- `ids` have special browser functionality: "hash (#) value" in the URL
 - Example: <http://yourdomain.com#comments>
 - Browser attempts to locate the element with an `id` of "comments" and will **automatically scroll** the page to show that element
- This is an important reason why having `ids` be absolutely unique is important. So your browser knows where to scroll!



More on `class` and `id`

- A single element can have BOTH `id` and `class`
 - `class` is applied to element for styling purposes
 - `id` value is useful for direct linking to that point of a webpage

```
<h1 id="homework" class="hw">Homework</h1>
```

More on `class` and `id`



- Regarding CSS, there is nothing you can do with an `id` that you can't do with a `class` and vice versa. So **CSS doesn't care whether you use `id` or `class`!**
- **But Javascript** (as we will see later) **does cares!**
 - JavaScript depends on there being only one page element with any particular `id`, or else the commonly used `getElementById` function wouldn't be dependable.
 - More on Javascript later...

APPENDIX: Other selectors

element.className



Syntax	Example	Example described
element.className	p.hwc	<p> elements with hwc class

```
<h1 class="hwc">Homework 0</h1>
<p class="hwc">Due Friday.</p>
<p class="hwc">Late cutoff Sunday.</p>
<h1>Lectures</h1>
<p>Apr 3: Syllabus</p>
<p>Apr 5: HTML+CSS</p>
```

HTML

Homework 0

Due Friday.

Late cutoff Sunday.

Lectures

Apr 3: Syllabus

Apr 5: HTML+CSS

```
p.hwc {
  color: green;
}
```

CSS

Descendent selector



Syntax	Example	Example described
selector selector class element	.hwc p	<p> elements that are descendants of hwc class

```
<div class="hwc">
  <h1>Homework 0</h1>
  <p>Due Friday.</p>
  <p>Late cutoff Sunday.</p>
</div>
<h1>Lectures</h1>
<p>Apr 3: Syllabus</p>
<p>Apr 5: HTML+CSS</p>
```

```
.hwc p {
  color: green;
}
```

HTML

Homework 0

Due Friday.

Late cutoff Sunday.

Lectures

Apr 3: Syllabus

Apr 5: HTML+CSS

CSS

Descendent selector



Syntax	Example	Example described
selector selector class element	.hwc p	<p> elements that are descendants of hwc class

```
<div class="hwc">
  <div>
    <h1>Homework 0</h1>
    <p>Due Friday.</p>
    <p>Late cutoff Sunday.</p>
  </div>
</div>
<h1>Lectures</h1>
```

```
.hwc p {
  color: green;
}
```

HTML

Homework 0

Due Friday.

Late cutoff Sunday.

Lectures

Apr 3: Syllabus

Apr 5: HTML+CSS

CSS

Note: The element does not have to be a direct child. The descendent may be nested many layers in.

Descendent selector



Syntax	Example	Example described
selector selector element element	<code>div p</code>	<code><p></code> elements that are descendants of a <code><div></code>

```
<div>  
  <h1>Homework 0</h1>  
  <p>Due Friday.</p>  
  <p>Late cutoff Sunday.</p>  
</div>  
<h1>Lectures</h1>  
<p>Apr 3: Syllabus</p>  
<p>Apr 5: HTML+CSS</p>
```

```
div p {  
  color: green;  
}
```

HTML

Homework 0

Due Friday.

Late cutoff Sunday.

Lectures

Apr 3: Syllabus

Apr 5: HTML+CSS

CSS

Descendent selector



Syntax	Example	Example described
selector selector class element	div p	<p> elements that are descendants of a <div>

Discouraged:

```
<h1>Homework 0</h1> HTML  
<p class="hwc">Due Friday.</p>  
<p class="hwc">Late cutoff Sunday.</p>
```

Preferred:

```
<div class="hwc"> HTML  
  <h1>Homework 0</h1>  
  <p>Due Friday.</p>  
  <p>Late cutoff Sunday.</p>  
</div>
```

Instead of applying a class to several adjacent elements, wrap the group in a <div> container and style the contents via descendent selectors.

selector, selector (comma separated)



Syntax	Example	Example described
selector, selector	h1, h2	<h1> and <h2> elements

```
<h1>Course Info</h1>
<h2>Lectures</h2>
<p>Mon-Thu 13.30-15.30</p>
<h2>Honor Code</h2>
<p>Do the right thing</p>
```

HTML

Course Info

Lectures

Mon-Thu 13.30-15.30

Honor Code

Do the right thing

```
h1, h2 {
  background-color: yellow;
}
```

CSS

Selector summary



Example	Description
p	All <p> elements
.abc	All elements with the abc class, i.e. class="abc"
#abc	Element with the abc id, i.e. id="abc"
p.abc	<p> elements with abc class
p#abc	<p> element with abc id (p is redundant)
div p	<p> elements that are descendants of a <div>
h1, h2	<h1> and <h2> elements



Grouping selectors

2 Common bugs:

- `p.abc` vs `p .abc`
- `p .abc` vs `p, .abc`

- A `<p>` element with the **abc** class vs
An element with the **abc** class that descends from `<p>`
- An element with the **abc** class that descends from `<p>` vs
All `<p>` elements and all elements with the **abc** class

Grouping selectors



- You can combine selectors:

```
#main li.important strong {  
  color: red;  
}
```

CSS

- Q: What does this select?



Grouping selectors

- You can combine selectors:

```
#main li.important strong {  
  color: red;  
}
```

CSS

- Q: What does this select?
- A: Read from right to left:
 - **** tags that are children of **** tags that have an **"important"** class that are children of the element with the **"main"** id.



Colliding styles

- When styles collide, the most specific rule wins ([specificity](#))

```
div strong { color: red; }  
strong { color: blue; }
```

CSS

```
<div>  
  <strong>What color am I?</strong>  
</div>
```

HTML

Colliding styles



- Specificity precedence rules (details):
 - Inline CSS rules e.g. `<h1 style="font-size:22px;">Hello</h1>`
 - `ids` are more specific than `classes`
 - `classes` are more specific than element names
 - Element selector e.g. `h1 { color: yellow; }`
 - Style rules that directly target elements are more specific than style rules that are inherited
 - CSS styles are inherited from parent to child

```
body {  
    color: black;  
}
```

CSS

Text color in every element inside `<body>` will be black unless otherwise.



Colliding styles

- If elements have the same specificity, the later rule wins.

```
strong { color: red; }  
strong { color: blue; }
```

CSS

```
<div>  
  <strong>What color am I?</strong>  
</div>
```

HTML

Aside: The process of figuring out what rule applies to a given element is called the [cascade](#). This is where the "C" in *Cascading* Style Sheets comes from.



Colliding styles

- The `!important` rule overrides any other declarations.

```
strong { color: red !important; }  
strong { color: blue; }
```

CSS

```
<div>  
  <strong>What color am I?</strong>  
</div>
```

HTML

Aside: The process of figuring out what rule applies to a given element is called the [cascade](#). This is where the "C" in *Cascading* Style Sheets comes from.

Inheritance



- We saw earlier that CSS styles are inherited from parent to child.

Instead of selecting all elements individually:

```
a, h1, p, strong {  
    font-family: Helvetica;  
}
```

CSS

You can style the parent and the children will inherit the styles.

```
body {  
    font-family: Helvetica;  
}
```

You can override this style via specificity:

```
h1, h2 {  
    font-family: Consolas;  
}
```

CSS



Inheritance

- While many CSS styles are inherited from parent to child, **not all CSS properties are inherited.**

`` inherits the font-family property, but not display:

[Back to **Home**](#)

```
a {  
  display: block;  
  font-family: Arial;  
}  
em {  
  border: 2px solid #000;  
}
```

CSS

```
<a href="/home">  
  Back to <em>Home</em>  
</a>
```

HTML

Inheritance



- While many CSS styles are inherited from parent to child, **not all CSS properties are inherited.**
- There's no rule for what properties are inherited or not; the inheritance behavior defined in the CSS spec.
- You can look it up via MDN, e.g.

font-family:	Inherited	yes
display:	Inherited	no
- Generally, text-related properties are inherited, and layout-related properties are not.
- (You can also change this via the [inherit](#) CSS property, which is somewhat esoteric and not often use)



<a> colors?

- MDN says [color is inherited](#)... but if I set the body color to deeppink, links don't change color:

```
body {  
  color: deeppink;  
  font-family: Helvetica;  
}
```

CSS

```
<body>  
  <h1>Chocolate</h1>  
  <p>  
    <a  
href="https://ghirardelli.com">Ghirardelli</a>  
is not overrated.  
  <p>  
</body>
```

HTML

<a> inherits font-family...
Why doesn't inherit color?

Chocolate

[Ghirardelli](https://ghirardelli.com) is not overrated.



User agent styles

- This is because the browser has its own default styles:
 - Browser loads its own default stylesheet on every webpage
 - Not governed by spec, but there are [recommendations](#)

```
<!DOCTYPE html>
<html>
  <head>
    <title>          </title>
    <!--
      NOT TOTALLY ACCURATE: This isn't actually injected
      in the HTML, but it is loaded silently!
    -->
    <link rel="stylesheet" href="user-agent-style.css" />
  </head>
```



<a> colors?

- So to style <a> links, we have to override the browser default link style by explicitly setting a color:

```
body {  
  color: deeppink;  
  font-family: Helvetica;  
}  
a {  
  color: deeppink;  
}
```

CSS

```
<h1>Chocolate</h1>  
<p>  
  <a  
href="https://ghirardelli.com">Ghirardelli</a>  
is not overrated.  
<p>
```

HTML

Chocolate

[Ghirardelli](https://ghirardelli.com) is not overrated.

Link-related CSS



- Since we're on the topic of links:
 - How do we style visited links differently from unvisited?

CSS pseudo-classes



- [pseudo-classes](#): special keywords you can append to selectors, specifying a *state* or *property* of the selector

Syntax	Explanation
<code>a</code>	All anchor tags (links) in all states
<code>a:visited</code>	A visited link
<code>a:link</code>	An unvisited link
<code>a:hover</code>	The style when you hover over a link
<code>a:active</code>	The style when you have "activated" a link (downclick)

There are more [pseudo-classes](#) than this; have a look!

CSS pseudo-classes



Syntax	Explanation
<code>:first-child</code>	Matches the first element among a group of sibling elements

```
p:first-child {  
  color: blue;  
}
```

CSS

```
<p>This is some text.</p>  
<p>This is some text.</p>  
<p>This is some text.</p>
```

HTML

This is some text.

This is some text.

This is some text.

CSS pseudo-classes



Syntax	Explanation
<code>:not(selector)</code>	Selects every element that is NOT in the selector

```
p {  
  color: #000000;  
}  
:not(p) {  
  color: #ff0000;  
}
```

CSS

This is a heading

This is a paragraph.

This is another paragraph.

```
<h1>This is a heading</h1>  
<p>This is a paragraph.</p>  
<p>This is another paragraph.</p>  
<div>This is some text in a div element.</div>  
<a href="https://www.w3schools.com"target="_blank">W3Schools</a>
```

This is some text in a div element.

[W3Schools](https://www.w3schools.com)

CSS pseudo-classes



Syntax	Explanation
<code>:nth-child</code>	Selects every element that is that is the n child of its parent (the index of the first child is 1)

```
p:nth-child(2) {  
  background: red;  
}
```

CSS

```
<p>The first paragraph.</p>  
<p>The second paragraph.</p>  
<p>The third paragraph.</p>  
<p>The fourth paragraph.</p>
```

HTML

The first paragraph.

The second paragraph.

The third paragraph.

The fourth paragraph.

CSS pseudo-classes



Syntax	Explanation
<code>:nth-child</code>	Odd and even are keywords that can be used to match child elements whose index is odd or even

```
p:nth-child(odd) {  
  background: red;  
}  
p:nth-child(even) {  
  background: blue;  
}
```

CSS

```
<p>The first paragraph.</p>  
<p>The second paragraph.</p>  
<p>The third paragraph.</p>  
<p>The fourth paragraph.</p>
```

HTML

The first paragraph.

The second paragraph.

The third paragraph.

The fourth paragraph.

CSS pseudo-classes



Syntax	Explanation
<code>:nth-child</code>	Using formula $an+b$ where a represents a cycle size, n is a counter (starts at 0) and b is an offset value

```
p:nth-child(3n+0) {  
  background: red;  
}
```

CSS

```
<p>The first paragraph.</p>  
<p>The second paragraph.</p>  
<p>The third paragraph.</p>  
<p>The fourth paragraph.</p>  
<p>The fifth paragraph.</p>  
<p>The sixth paragraph.</p>  
<p>The seventh paragraph.</p>  
<p>The eighth paragraph.</p>  
<p>The ninth paragraph.</p>
```

HTML

The first paragraph.

The second paragraph.

The third paragraph.

The fourth paragraph.

The fifth paragraph.

The sixth paragraph.

The seventh paragraph.

The eighth paragraph.

The ninth paragraph.

CSS pseudo-classes



Syntax	Explanation
<code>::after</code>	Creates a pseudo-element that is the last child of the selected element. It is often used to add cosmetic content to an element with the content property. It is inline by default.

```
p::after {  
  content: ' !!!';  
  color: red;  
}
```

CSS

```
<p>I like web programming</p>  
<p>My favorite course</p>
```

HTML

I like web programming !!!

My favorite course !!!

Debugging Cascades in Chrome Dev Tools



The Pacific Ocean

The Pacific Ocean is the largest of the Earth's oceanic divisions. It extends from the Arctic Ocean in the north to the Southern Ocean (or, depending on the definition, to Antarctica) in the south and is bounded by Asia and Australia in the west and the Americas in the east.

At 165.25 million square kilometers (63.8 million square miles) in area, this largest division of the World Ocean - and, in turn, the hydrosphere - covers 46% of the Earth's water surface and about one-third of its total surface area, making it largest than all of the Earth's land area combined [1]. The equator subdivides it into the North Pacific Ocean and South Pacific Ocean.

The screenshot displays the Chrome DevTools interface. The Elements panel on the left shows the following HTML structure:

```
<!doctype html>
<html>
  <head>
    <title>CS 344</title>
    <link rel="stylesheet" href="lab7.css">
  </head>
  <body>
    <h1>The Pacific Ocean</h1>
    <p class="info-paragraph important" id="main-paragraph"> == $0
      "The Pacific Ocean is the largest of the Earth's oceanic divisions. It extends from the Arctic Ocean in the north to the Southern Ocean (or, depending on the definition, to Antarctica) in the south and is bounded by Asia and Australia in the west and the Americas in the east."
    </p>
    <p class="info-paragraph">
      "At 165.25 million square kilometers (63.8 million square miles) in area, this largest division of the World Ocean - and, in turn, the hydrosphere - covers 46% of the Earth's water surface and about one-third of its total surface area, making it largest than all of the Earth's land area combined [1]. The equator subdivides it into the North Pacific Ocean and South Pacific Ocean."
    </p>
  </body>
</html>
```

The Styles panel on the right shows the following cascading styles for the selected element:

```
element.style {
}
#main-paragraph {
  font-weight: bold;
  color: green;
}
p.info-paragraph {
  color: blue;
  background-color: orange;
}
.important {
  background-color: yellow;
}
p {
  font-family: sans-serif;
  color: orange;
}
p {
  display: block;
  margin-block-start: 1em;
  margin-block-end: 1em;
  margin-inline-start: 0px;
  margin-inline-end: 0px;
}
user agent stylesheet
```