

A: There is one crucial set of rules we haven't learned yet...

block vs **inline** display

What is HTML?

HTML (Hypertext **M**arkup **L**anguage)

- Describes the **content** and **structure** of a web page
- Made up of building blocks called **elements**.

<p>

HTML is awesome!!!

</p>

And there are 3 basic types.

Types of HTML elements

Each HTML element is categorized by the HTML spec into one of three-ish 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

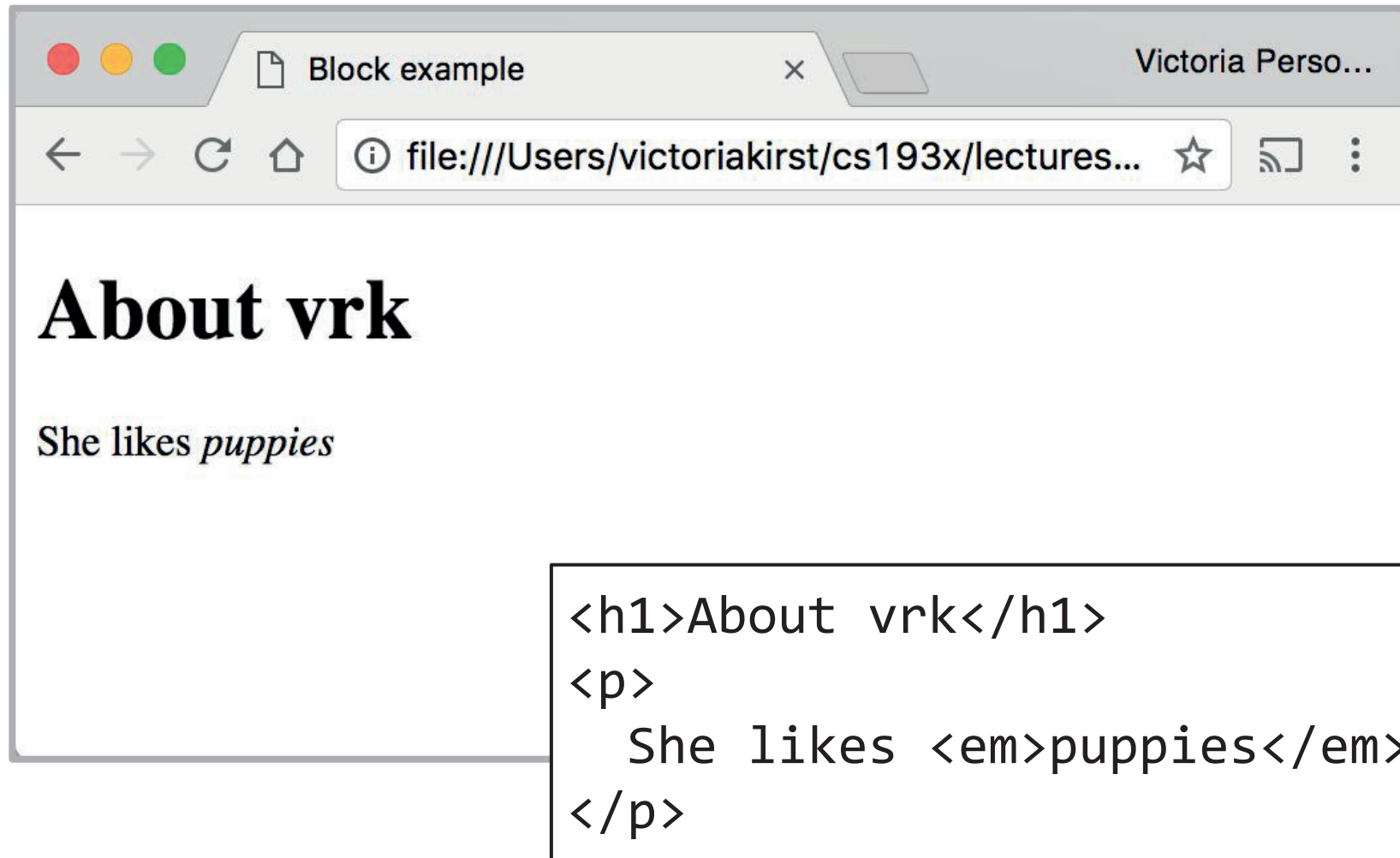
Examples:

`<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

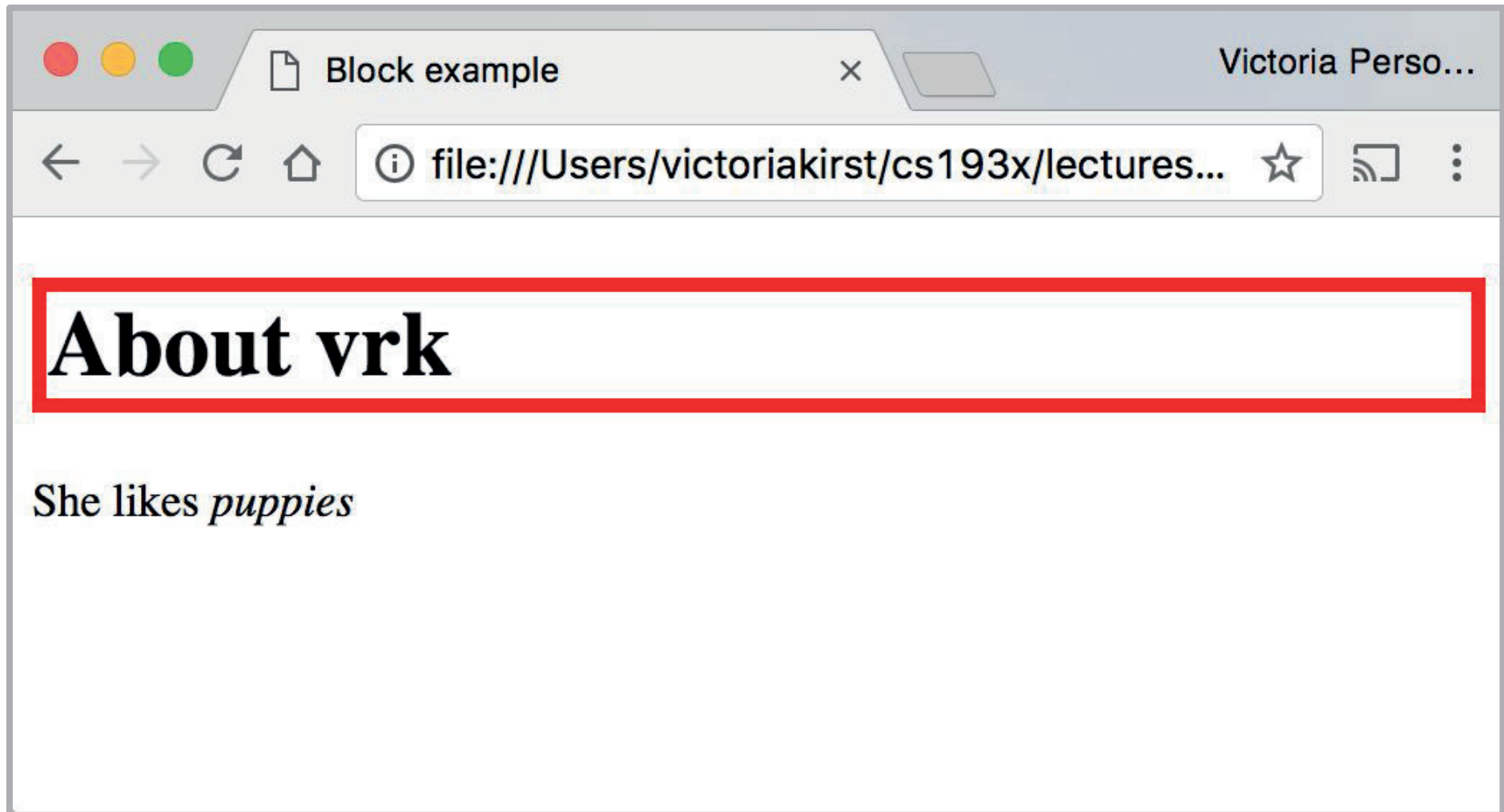


**Q: What does this
look like in the
browser?**

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



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



([Codepen](#))

Block-level:

extends the full width of the page

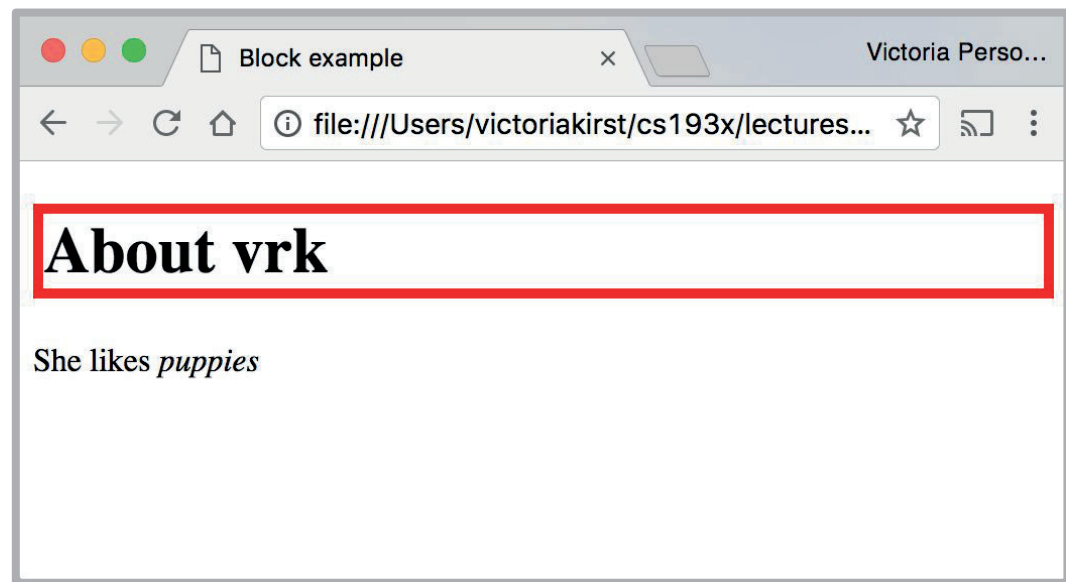
```
h1 {  
  border: 5px solid red;  
}
```

```
<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

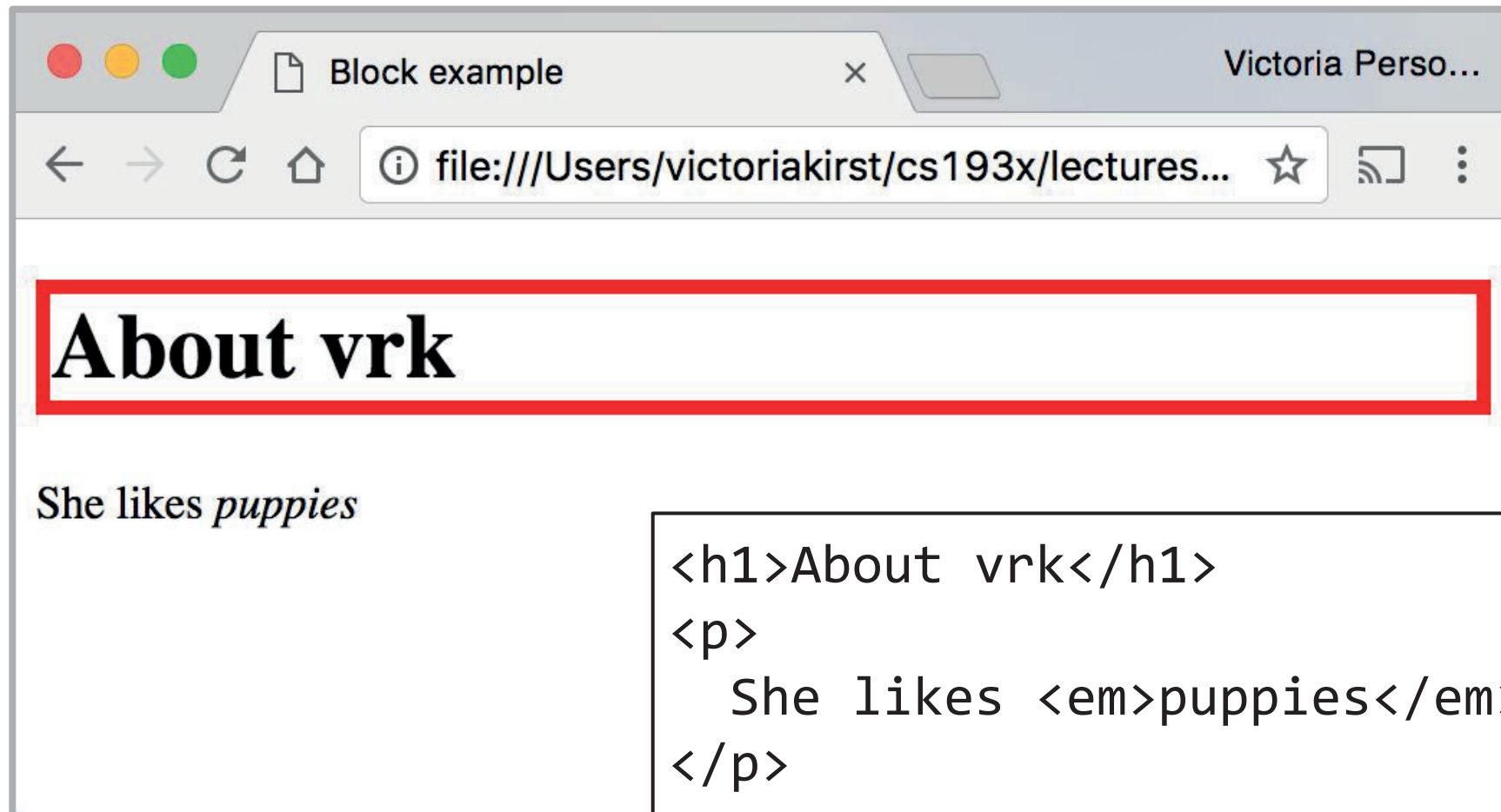
Note how block-level elements (**h1**, **p**) flow top to bottom

See: [Codepen](#)

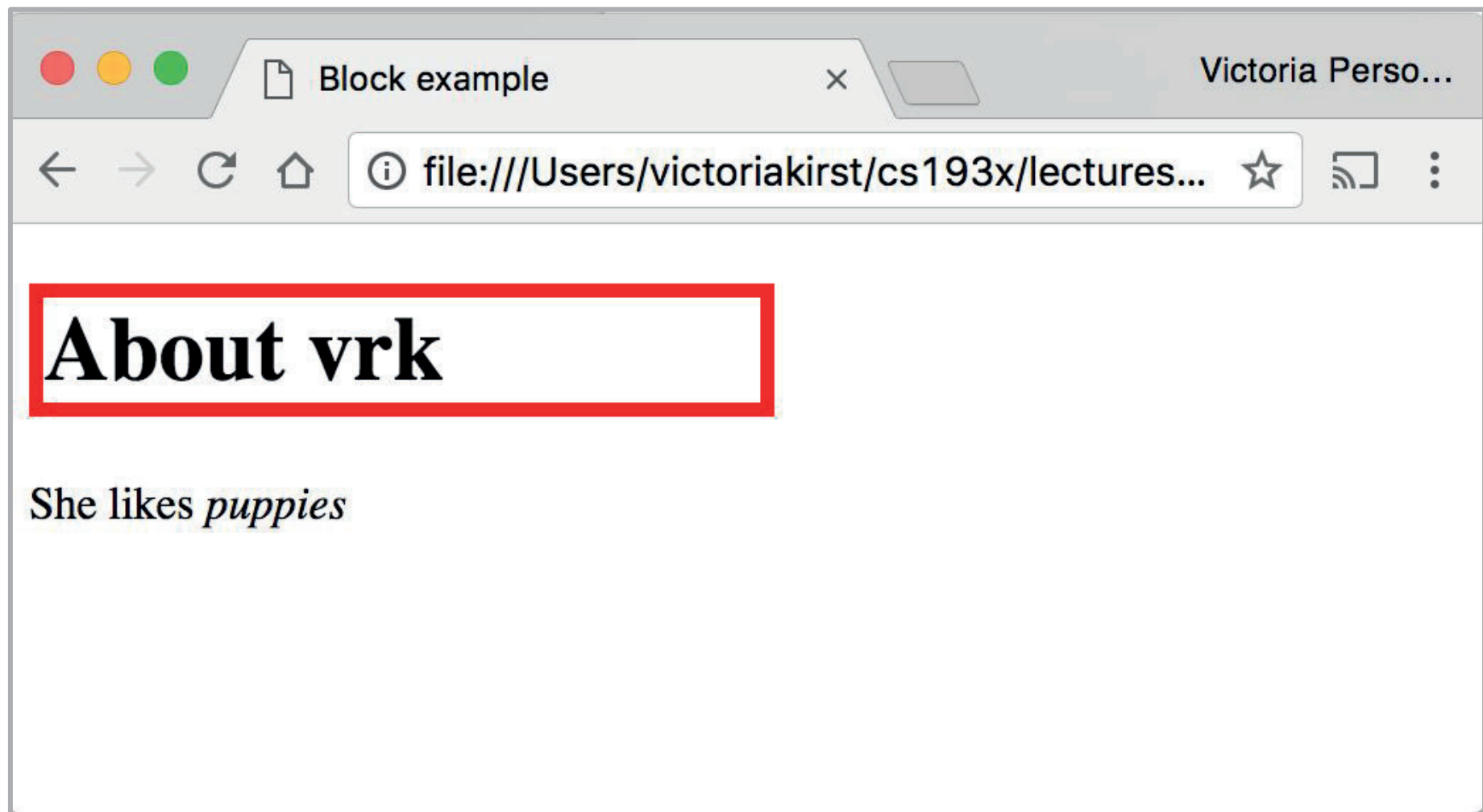


**Q: What does this
look like in the
browser?**

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



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



([Codepen](#))

Block-level

width can be modified

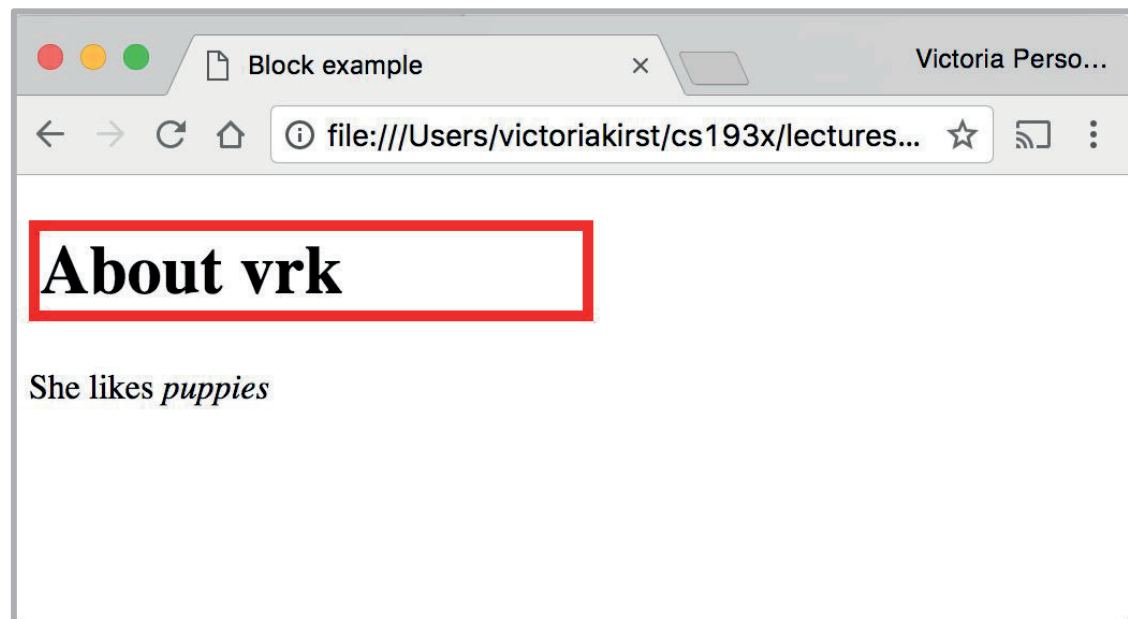
```
h1 {  
  border: 5px solid red;  
  width: 50%;  
}
```

```
<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

See: [Codepen](#)

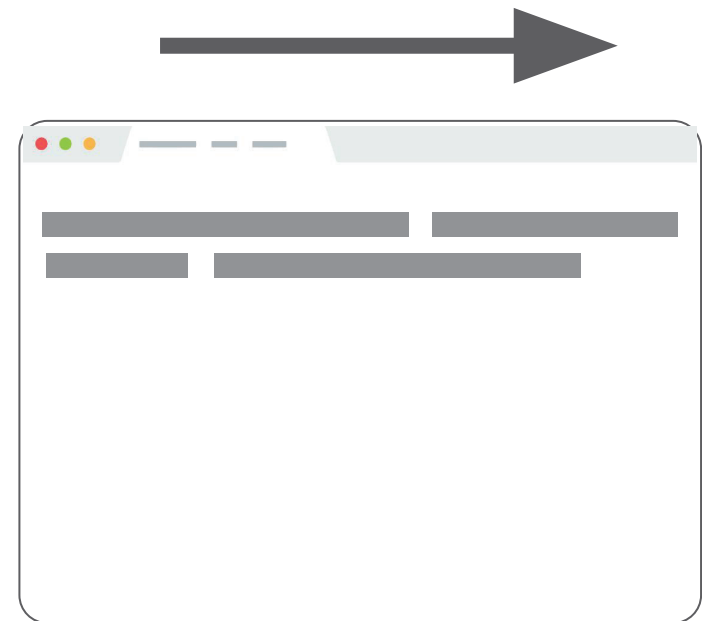


Inline elements

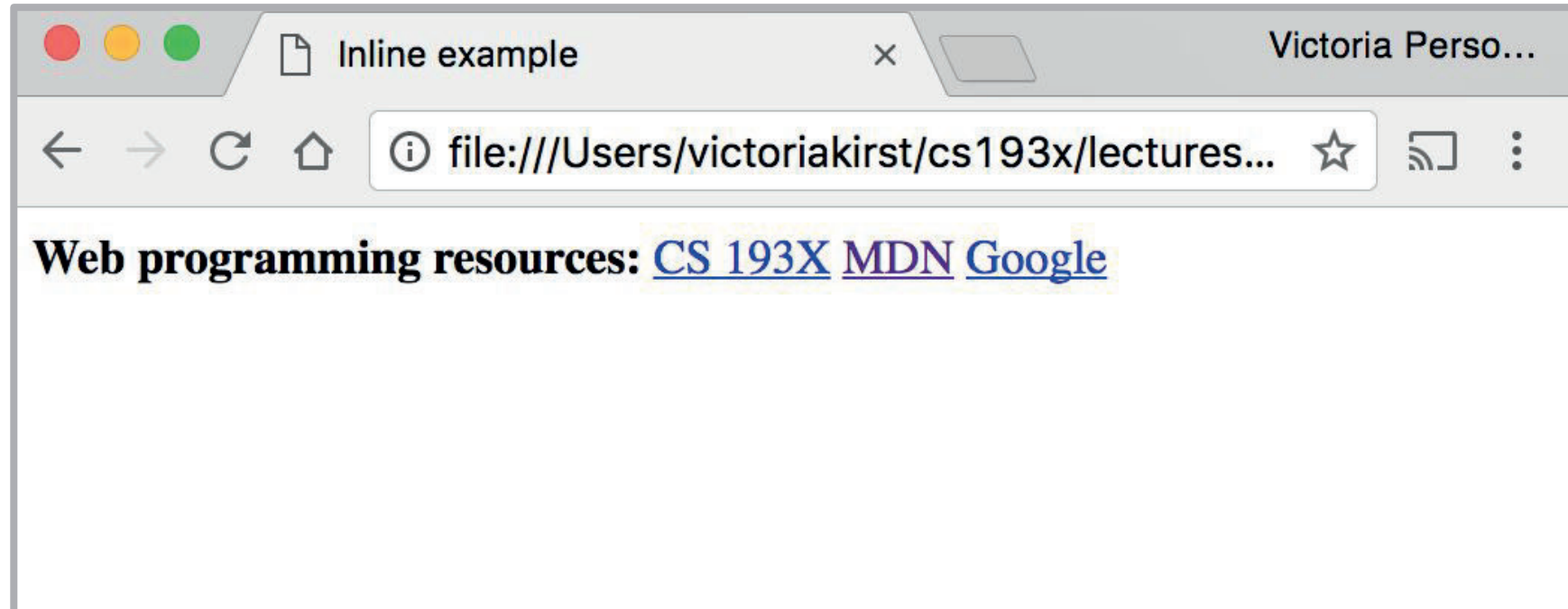
Examples:

`<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



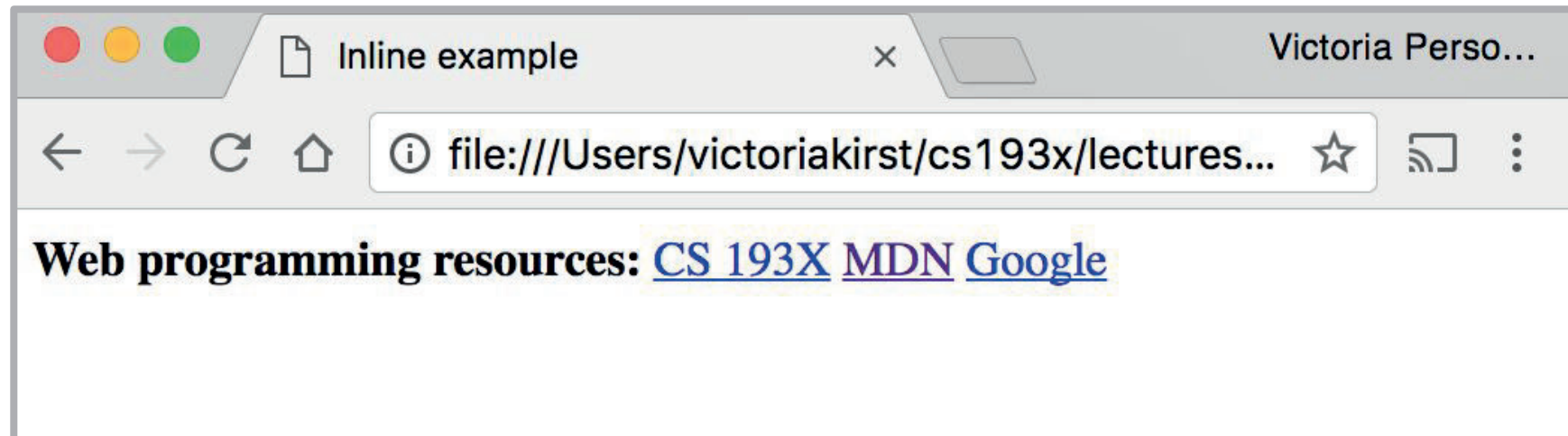
Example: Inline



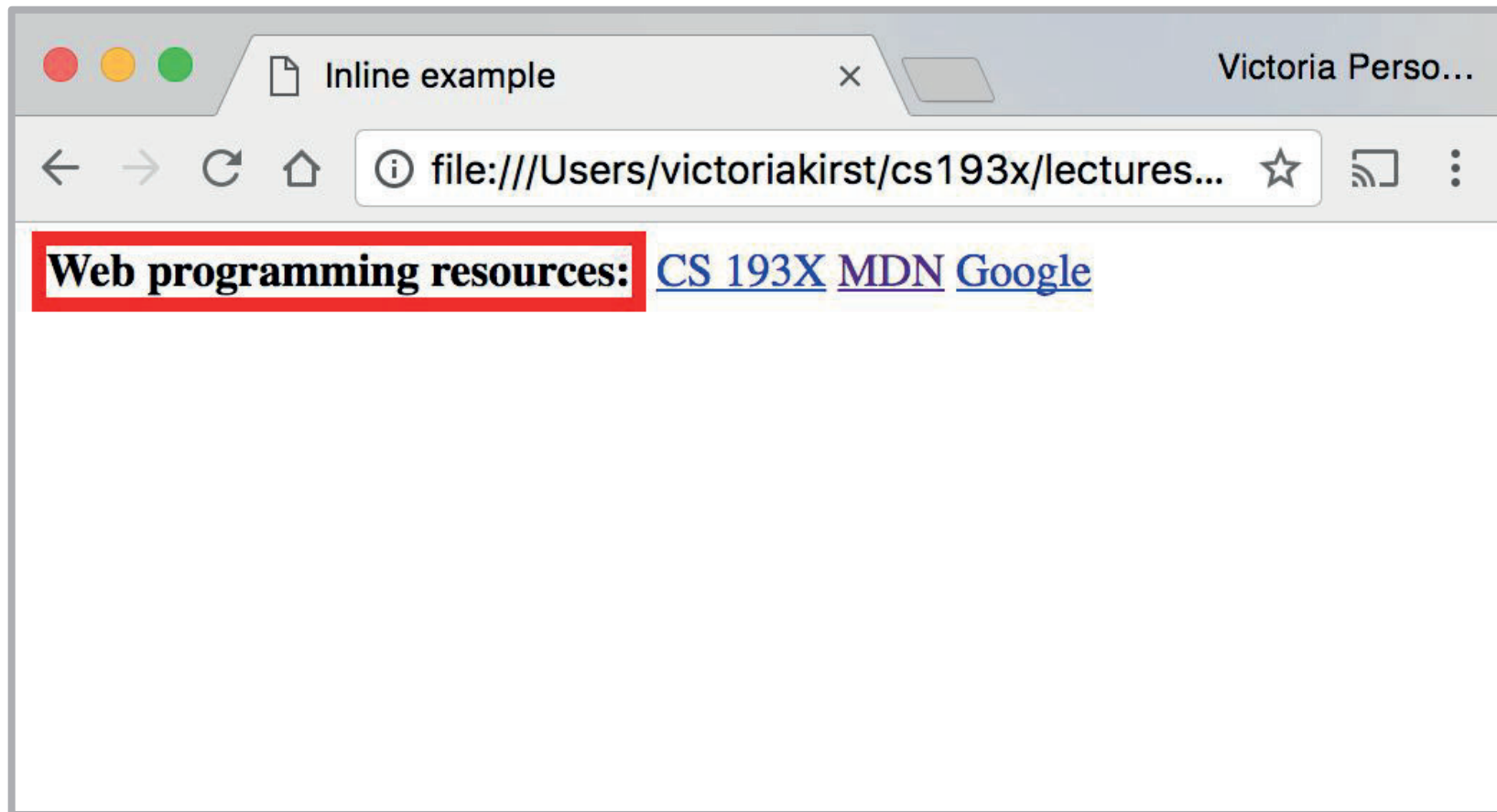
```
<strong>Web programming resources:</strong>  
<a href="http://cs193x.stanford.edu">CS 193X</a>  
<a href="https://developer.mozilla.org/en-US/">MDN</a>  
<a href="http://google.com">Google</a>
```

**Q: What does this
look like in the
browser?**

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



```
<strong>Web programming resources:</strong>  
<a href="http://cs193x.stanford.edu">CS 193X</a>  
<a href="https://developer.mozilla.org/en-US/">MDN</a>  
<a href="http://google.com">Google</a>
```



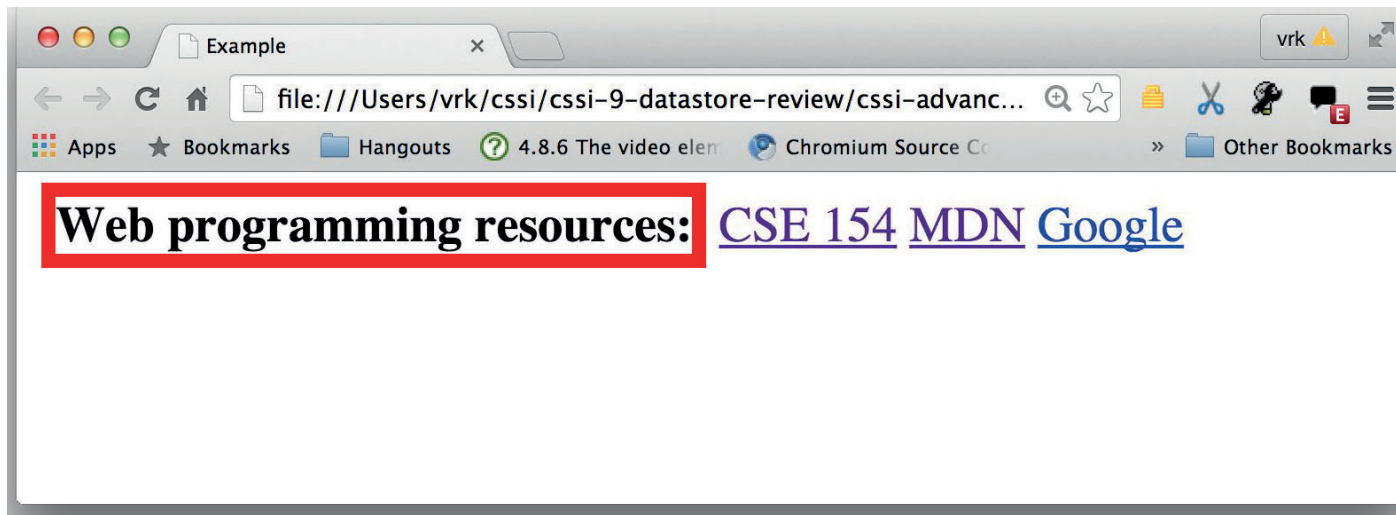
([Codepen](#))

Inline elements ignore width

width cannot be modified

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

```
<strong>Web programming reso  
<a href="http://cs193x.stanf  
<a href="https://developer.m  
<a href="http://google.com">
```



Cannot set **width** on inline element, so it is ignored ([Codepen](#))

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)



Example: Inline-block

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

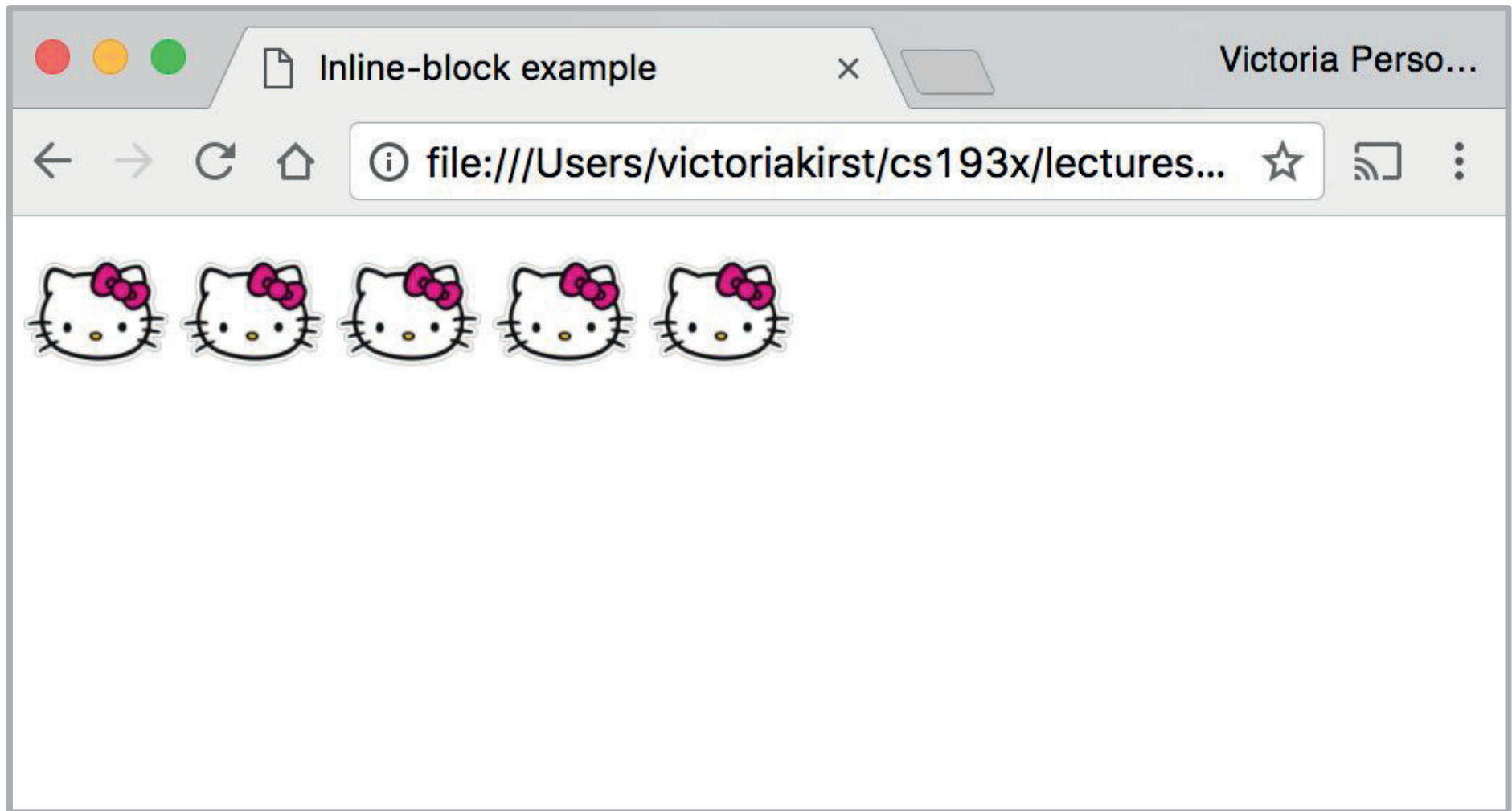
Q: What does this look like in the browser?

```
  
  
  
  

```

<http://i.imgur.com/WJToVGv.jpg> =





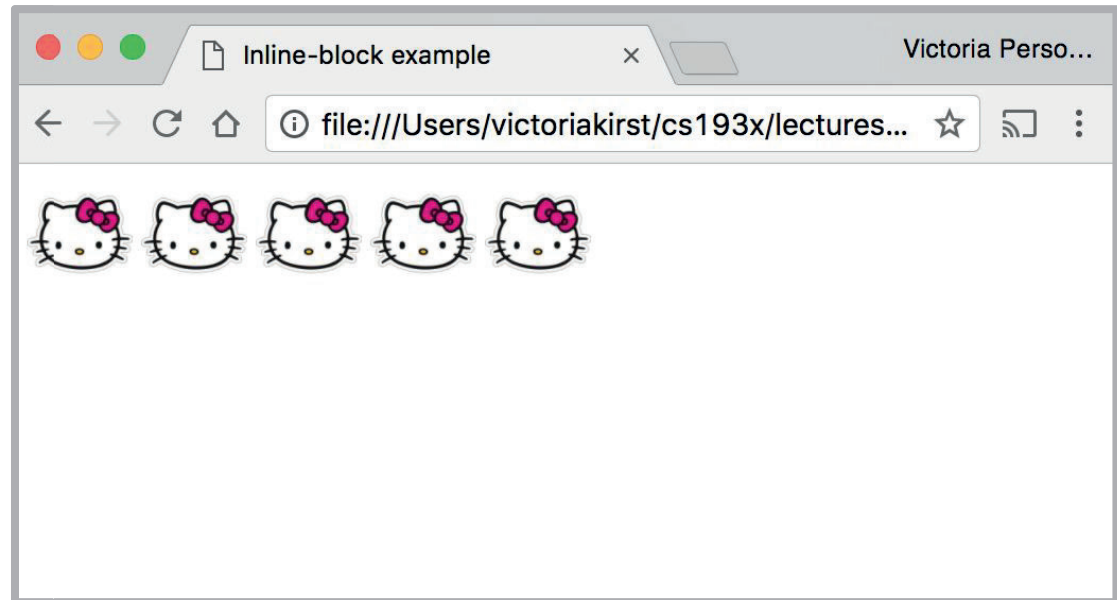
([Codepen](#))

Inline-block

Has width and height; flows left to right

Can set **width** on inline-block element, so image width is set to 50px. ([Codepen](#))

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: [link](#)

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 and 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