

# HTML & CSS FOR BEGINNERS

Girl Develop IT Pittsburgh

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# WEEK #4

## Advanced Topics

Lindsey Bieda & Julie Pagano

# GOALS FOR TODAY

- ★ Brief overview of some advanced topics

# ANATOMY OF A TABLE

```
<table>
  <tr>
    <th>header 1</th>
    <th>header 2</th>
  </tr>
  <tr>
    <td>row 1 cell 1</td>
    <td>row 1 cell 2</td>
  </tr>
  <tr>
    <td>row 2 cell 1</td>
    <td>row 2 cell 2</td>
  </tr>
</table>
```

# TABLE

```
<table>
  <tr>
    <th>header 1</th>
    <th>header 2</th>
  </tr>
  <tr>
    <td>row 1 cell 1</td>
    <td>row 1 cell 2</td>
  </tr>
  <tr>
    <td>row 2 cell 1</td>
    <td>row 2 cell 2</td>
  </tr>
</table>
```

# TABLE ROW

```
<table>
  <tr>
    <th>header 1</th>
    <th>header 2</th>
  </tr>
  <tr>
    <td>row 1 cell 1</td>
    <td>row 1 cell 2</td>
  </tr>
  <tr>
    <td>row 2 cell 1</td>
    <td>row 2 cell 2</td>
  </tr>
</table>
```




# TABLE CELL

```
<table>
  <tr>
    <th>header 1</th>
    <th>header 2</th>
  </tr>
  <tr>
    <td>row 1 cell 1</td>
    <td>row 1 cell 2</td>
  </tr>
  <tr>
    <td>row 2 cell 1</td>
    <td>row 2 cell 2</td>
  </tr>
</table>
```

# TABLE HEADER CELL

```
<table>
  <tr>
    <th>header 1</th>
    <th>header 2</th>
  </tr>
  <tr>
    <td>row 1 cell 1</td>
    <td>row 1 data 2</td>
  </tr>
  <tr>
    <td>row 2 cell 1</td>
    <td>row 2 cell 2</td>
  </tr>
</table>
```



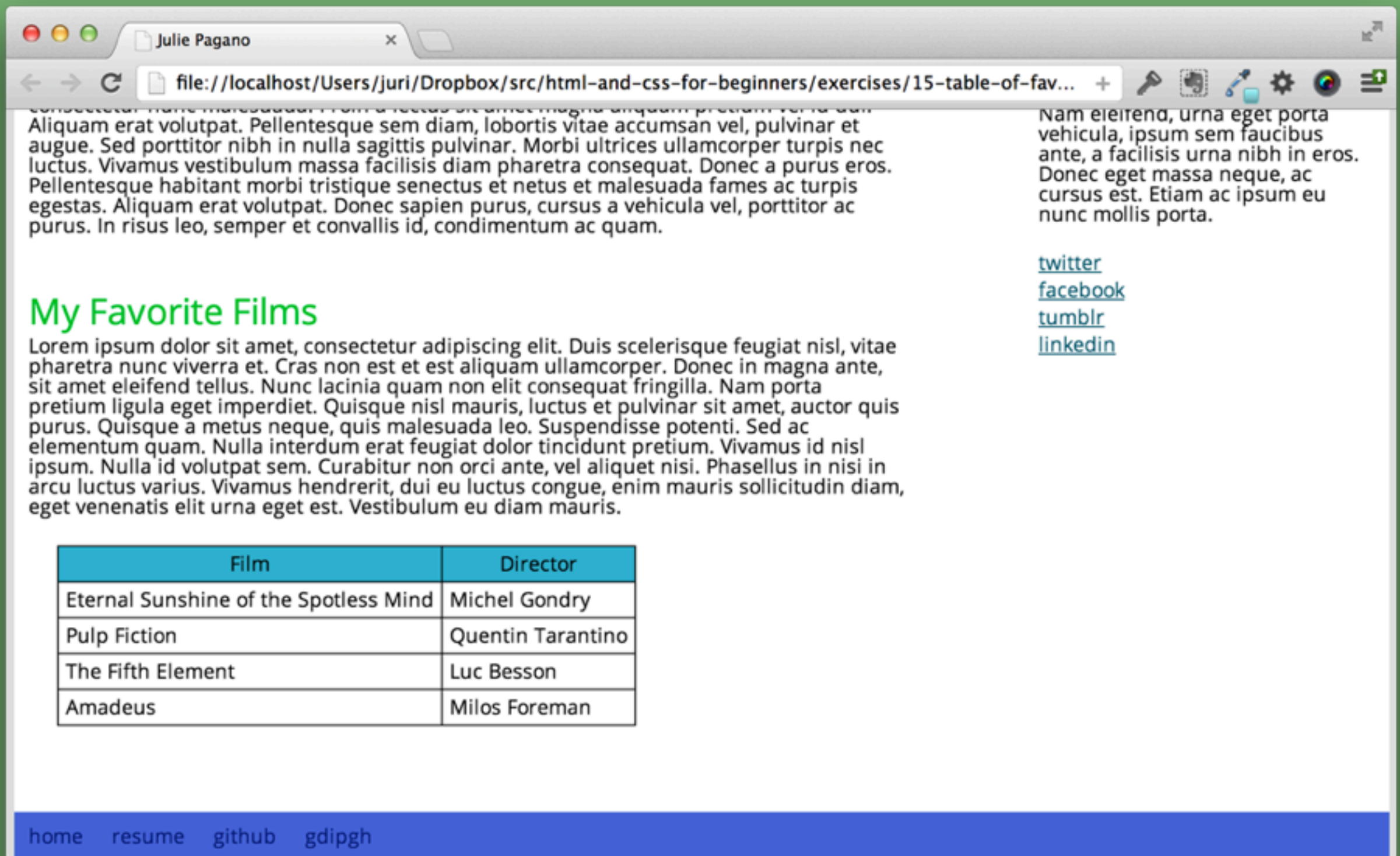
Table example		
Name	Breed	Photo
Dash	domestic shorthair	
Nikita	domestic shorthair	
Leon	domestic shorthair	

# TABLES ARE ONLY FOR DATA

NOT LAYOUTS

# ACTIVITY: TABLE OF FAVORITES

1. Add a table to one of your articles
2. Suggestions: favorite albums/artists, favorite films/directors



# ACTIVITY: SHARE YOUR SITE

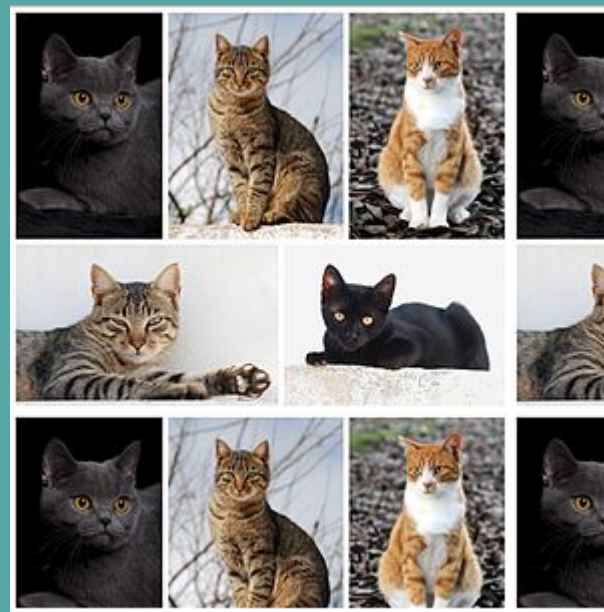
ANY VOLUNTEERS?

# USEFUL RESOURCES

- › A List Apart
- › CSS tricks
- › Smashing Magazine

# BACKGROUND IMAGES

```
.foo {  
  width: 300px;  
  height: 300px;  
  background-image: url('cats.jpeg');  
}
```





Heroku | Cloud Application Platform

www.heroku.com


heroku

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# cloud application platform


deploy and scale powerful apps




Forget Servers



Run Anything



See Everything



Trust & Manage

Elements Resources Network Sources Timeline Profiles Audits Console

```
<div class="wrapper">
  <header>...</header>
  <nav>
    <ul>
      <li class="active">
        <a id="href-forget_servers" href="#forget_servers">Forget Servers</a>
      </li>
      <li class="">
        <a id="href-run_anything" href="#run_anything">Run Anything</a>
      </li>
      <li>...</li>
      <li>...</li>
    </ul>
  </nav>
</div>
```

Computed Style

Style

element

Matches

section #href- 84 x 84 pixels

forget forget

background-image: url('/images/home/crane1.png');

body.home section#home div.wrapper nav ul li.active a#href-forget\_servers



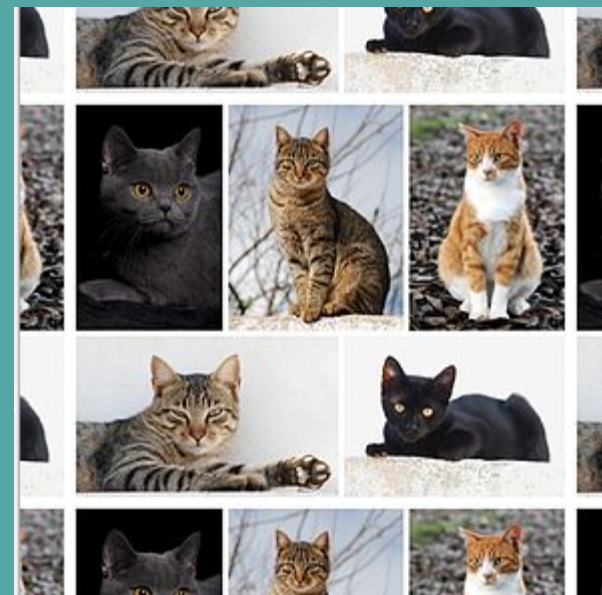
# PROPERTY:

## BACKGROUND-POSITION

- Position can be:
  - Left, center, right
  - Location (eg. 50px 50px)
  - Percent (50% 50% is the same as center)
- Specifies the starting location for the tiling

# BACKGROUND-POSITION

```
.foo {  
  width: 300px;  
  height: 300px;  
  background-image: url('cats.jpeg');  
  background-position: center;  
}
```

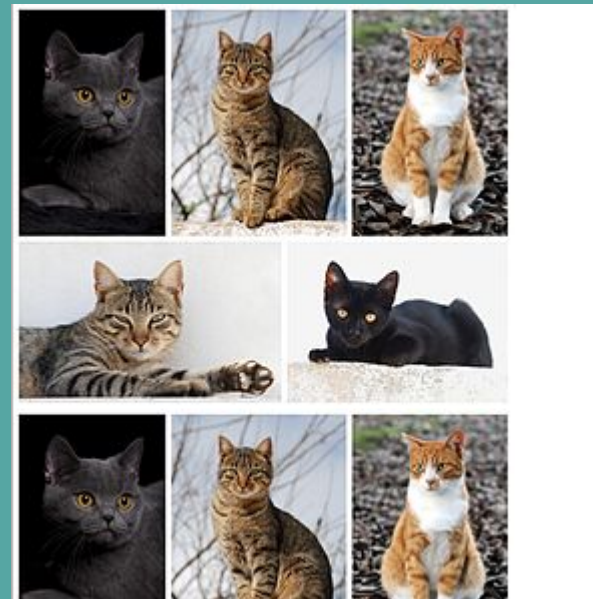


# PROPERTY: BACKGROUND-REPEAT

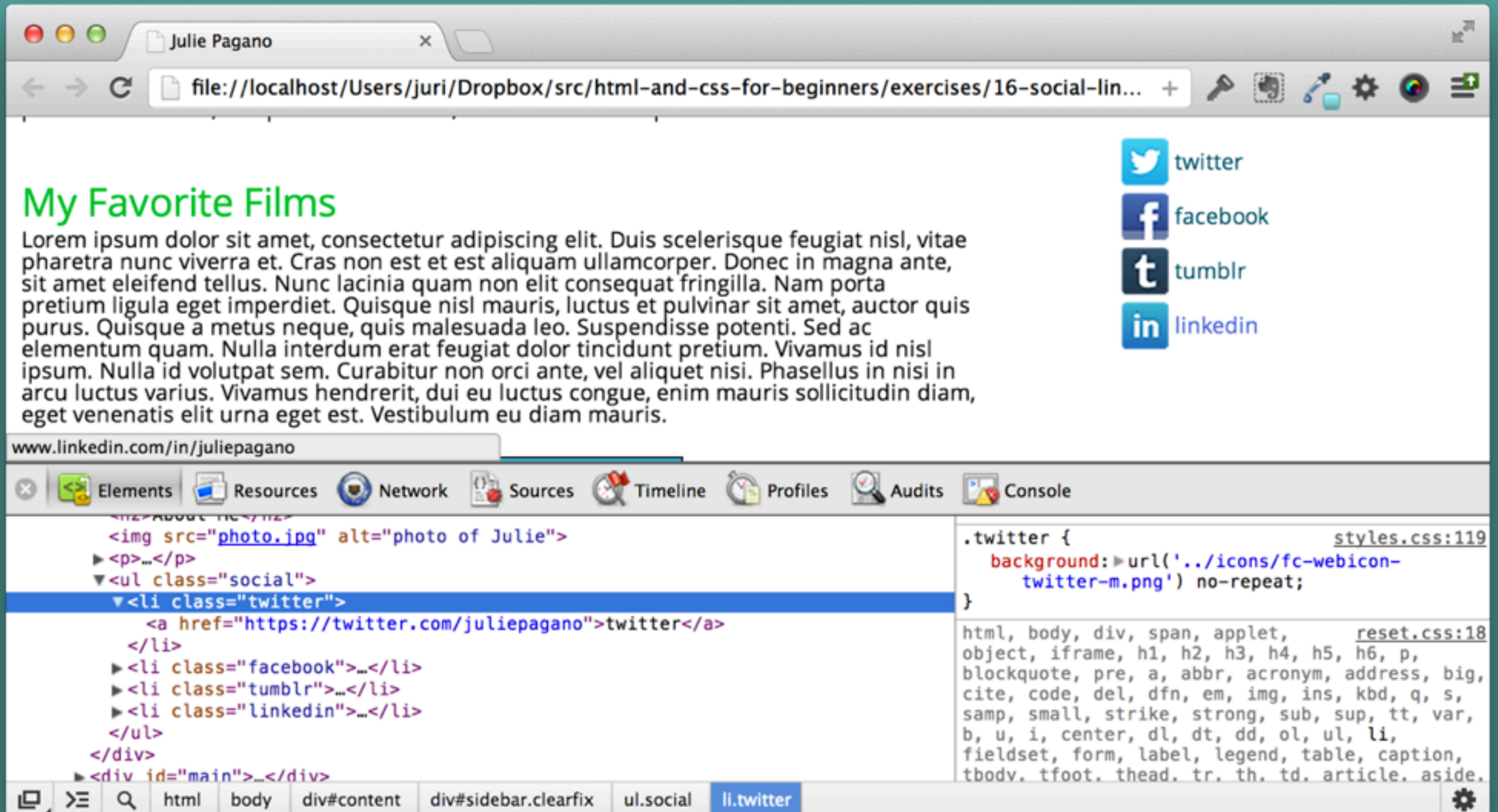
- › Specifies how to repeat the background
- › Repeat: the default
- › No-repeat: do not repeat the image
- › Repeat-x: repeat the image horizontally only
- › Repeat-y: repeat the image vertically only

# BACKGROUND-REPEAT

```
.foo {  
  width: 300px;  
  height: 300px;  
  background-image: url('cats.jpeg');  
  background-repeat: repeat-y;  
}
```



# EXAMPLE: SOCIAL LINKS



# FORMS

- Forms accept input from an user and send to a server for processing.
- Examples:
  - Order form
  - Log in fields
  - Comments
  - Twitter status



HTML & CSS for Beginners - Example Form

An example form to help people see how forms work!

**Text input**

**Textarea**

**Radio input**

☐ option1

☐ option2

☐ option3

☐ option4

**Checkbox input**

☐ option1

☐ option2

☐ option3

# ACCESSIBILITY

- › ADA Compliance
- › Color blindness
- › Assistive technology



Most Wanted Ajax Technique x Color Scheme Designer 3 x

colorschemedesigner.com

Undo Redo Random Colorblind Color space Export Help

# Color Scheme Designer

2002-2010 © Petr Stanicek • v3.51 • [Blog & News](#)

mono complement triad tetrad analogic accented analogic

Hue: 0° Angle: 30°

opposite

warm

cold

R: 100 %  
G: 0 %  
B: 0 %

RGB: FF0000

Hues Adjust Scheme Color List

Preview Light page example Dark page example

Show sample text

Colorblind

- Normal vision (cca 85.5 % of population)
- Protanopy (1 % of men)
- Deuteranopy (1 % of men)
- Tritanopy (cca 0,003 % of population)
- Protanomaly (1 % of men)
- Deuteranomaly (5 % of men, 0.4 % of women)**
- Tritanomaly (almost 0 %)
- Full colorblindness (0,005 % of population)
- Atypical monochromatism

colorschemedesigner.com/#

# SUGGESTIONS FOR ACCESSIBILITY

- › Alt text on images
- › Be careful with color choices
- › Usable without CSS
- › Transcripts for audio/video

# HTML



**OFFLINE**



**STORAGE**



**CONNECTIVITY**



**FILE ACCESS**



**SEMANTICS**



**AUDIO/VIDEO**



**3D/GRAPHICS**



**PRESENTATION**



**PERFORMANCE**



**NUTS & BOLTS**



# HTML5

› Let's take a look at some examples!



- Borders
- Backgrounds
- Color
- Text effects
- UI
- Selectors
- Transitions
- Media queries

`border-radius`

`text-shadow`

`box-shadow`

`transparency`

# CSS3

› Let's take a look at some examples!

# CSS PREPROCESSORS

- › Add functionality to CSS
- › Compile into normal CSS



# CSS PREPROCESSORS

- › Are more flexible and maintainable
- › Help with organization
- › Minimize code duplication



# RESPONSIVE DESIGN

# The web is not fixed width



# RESPONSIVE DESIGN

**Goal:** provide an optimal web experience across many devices

# RESPONSIVE DESIGN

- Let's take a look at some examples!

# JAVASCRIPT

- › Scripting language
- › Primarily used on the web
- › Runs in the browser
- › Adds interactivity to web pages

# AJAX

- Asynchronous JavaScript and XML
- Interact with server asynchronously without reloading the page

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pragmatics of human communication

pragmatic guide to git

pragmatic version control using git

pragmatic thinking and learning refactor your

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Elements Resources Network Sources Timeline Profiles Audits Console

Name Path	Method	Status Text	Type	Initiator	Size Content	Time Latency	Timeline	1.28s	1.92s	2.57s	3.21s	3.85s
complete completion.amazon.com/se	GET	200 OK	text/ja...	site-wide-1187! Script	630B 467B	73ms 60ms						
complete completion.amazon.com/se	GET	200 OK	text/ja...	site-wide-1187! Script	647B 484B	64ms 63ms						
complete completion.amazon.com/se	GET	200 OK	text/ja...	site-wide-1187! Script	647B 484B	59ms 59ms						

16 requests | 7.26KB transferr...

All Documents Stylesheets Images Scripts XHR Fonts WebSockets Other

# DEPLOYING

- › You can easily share your site using Github Pages
- › See our deployment guides



# PLEASE GIVE US FEEDBACK!

- › Fill out our feedback form
- › Feel free to email us