

# HTML & CSS FOR BEGINNERS

Girl Develop IT Pittsburgh

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# WEEK #4

Advanced Topics

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# 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>
  </td>
  <tr>
    <td>row 2 cell 1</td>
    <td>row 2 cell 2</td>
  </td>
</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>
  </td>
  <tr>
    <td>row 2 cell 1</td>
    <td>row 2 cell 2</td>
  </td>
</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>
  </td>
  <tr>
    <td>row 2 cell 1</td>
    <td>row 2 cell 2</td>
  </td>
</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>
  </td>
  <tr>
    <td>row 2 cell 1</td>
    <td>row 2 cell 2</td>
  </td>
</table>
```

Table example

file:///localho...

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

A screenshot of a web browser window titled "Julie Pagano". The address bar shows the URL "file:///localhost/Users/juri/Dropbox/src/html-and-css-for-beginners/exercises/15-table-of-fav...". The page content includes two large blocks of placeholder text (Lorem ipsum) and a section titled "My Favorite Films" with another block of placeholder text. To the right of the text blocks is a table of favorite films. At the bottom of the page is a blue footer bar with links to "home", "resume", "github", and "gdipgh".

Aliquam erat volutpat. Pellentesque sem diam, lobortis vitae accumsan vel, pulvinar et augue. Sed porttitor nibh in nulla sagittis pulvinar. Morbi ultrices ullamcorper turpis nec luctus. Vivamus vestibulum massa facilisis diam pharetra consequat. Donec a purus eros. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Aliquam erat volutpat. Donec sapien purus, cursus a vehicula vel, porttitor ac purus. In risus leo, semper et convallis id, condimentum ac quam.

Nam eleifend, urna eget porta vehicula, ipsum sem faucibus ante, a facilisis urna nibh in eros. Donec eget massa neque, ac cursus est. Etiam ac ipsum eu nunc mollis porta.

[twitter](#)  
[facebook](#)  
[tumblr](#)  
[linkedin](#)

## My Favorite Films

Placeholder text (Lorem ipsum) describing favorite films.

Film	Director
Eternal Sunshine of the Spotless Mind	Michel Gondry
Pulp Fiction	Quentin Tarantino
The Fifth Element	Luc Besson
Amadeus	Milos Foreman

home resume github gdipgh

# ACTIVITY: SHARE YOUR SITE

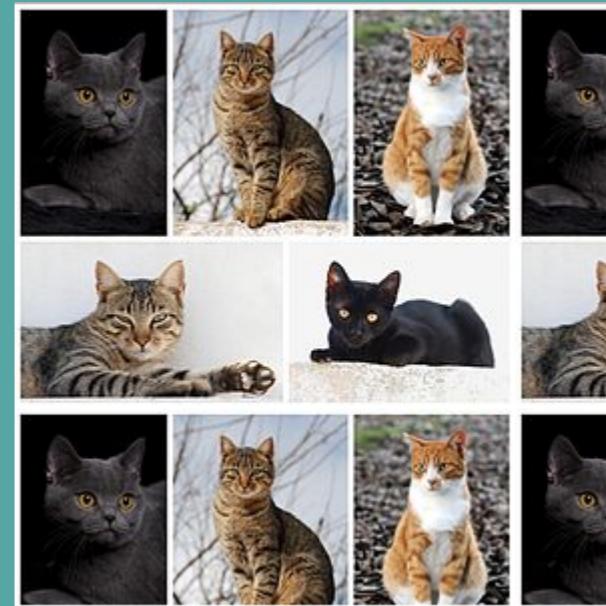
ANY VOLUNTEERS?

# USEFUL RESOURCES

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

# BACKGROUND IMAGES

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



Screenshot of a web browser showing the Heroku homepage ([www.heroku.com](http://www.heroku.com)) with the developer tools (Elements, Resources, Network, etc.) open.

The Heroku logo is at the top left. The navigation bar includes links for How it Works, Pricing, Add-ons, Dev Center, Help, Contact, My Apps, and My Account.

# cloud application platform

deploy and scale powerful apps

**Forget Servers** (with crane icon)

**Run Anything** (with crane icon)

**See Everything** (with crane icon)

**Trust & Manage** (with two cranes icon)

**Elements** tab selected in the developer tools.

HTML DOM tree:

```
<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 panel for the active navigation item:

```
element { }
}
Matche
section#home .forget { 84 x 84 pixels
  background-image: url('/images/home/crane1.png');
}
```

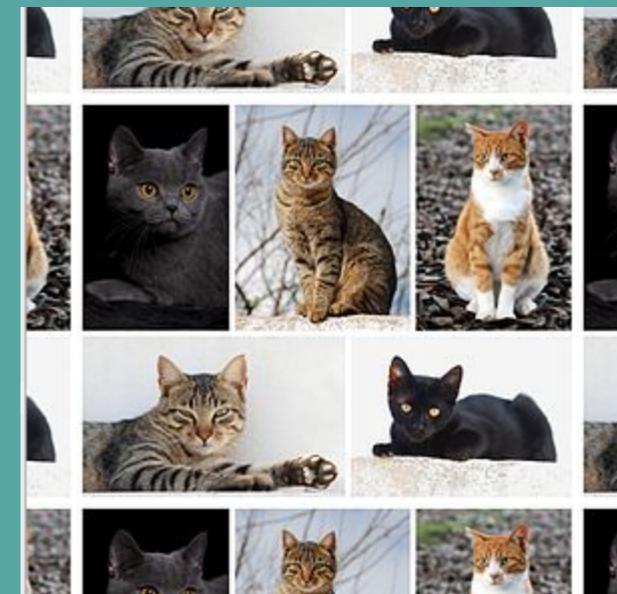
Resources panel shows an image file named "crane1.png".

# 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;  
}
```

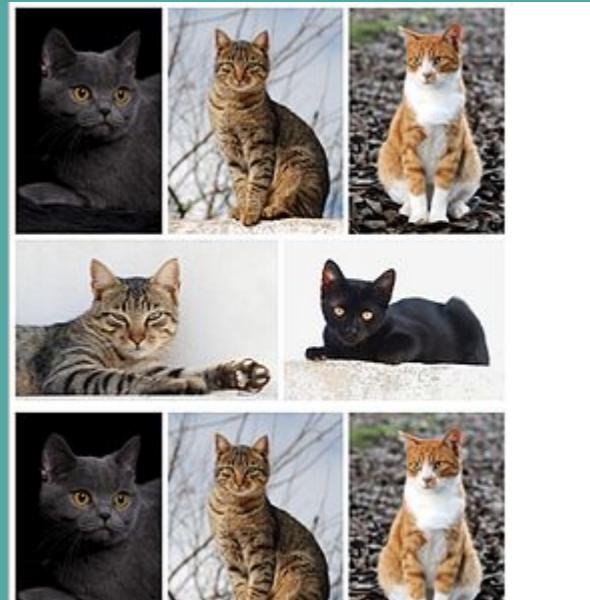


# PROPERTY: BACKGROUND-REPEAT

- › 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

The screenshot shows a web browser window titled "Julie Pagano". The address bar displays the local file path: "file:///localhost/Users/juri/Dropbox/src/html-and-css-for-beginners/exercises/16-social-lin...". The main content area contains the heading "My Favorite Films" in green and a large amount of placeholder text (Lorem ipsum) in black. To the right of the text are four social media icons with their corresponding labels: a blue Twitter icon labeled "twitter", a blue Facebook icon labeled "facebook", a blue Tumblr icon labeled "tumblr", and a blue LinkedIn icon labeled "linkedin". Below the browser window, the developer tools are open, specifically the Elements tab. The left panel shows the HTML structure of the page, including an image tag for "photo.jpg" and a list of social media links under a "social" class. The right panel shows the CSS styles applied to the "twitter" link, which includes a background image from "fc-webicon-twitter-m.png". The bottom navigation bar of the developer tools includes tabs for "html", "body", "div#content", "div#sidebar.clearfix", "ul.social", and "li.twitter", with "li.twitter" being the active tab.

My Favorite Films

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Duis scelerisque feugiat nisl, vitae pharetra nunc viverra et. Cras non est et est aliquam ullamcorper. Donec in magna ante, sit amet eleifend tellus. Nunc lacinia quam non elit consequat fringilla. Nam porta pretium ligula eget imperdiet. Quisque nisl mauris, luctus et pulvinar sit amet, auctor quis purus. Quisque a metus neque, quis malesuada leo. Suspendisse potenti. Sed ac elementum quam. Nulla interdum erat feugiat dolor tincidunt pretium. Vivamus id nisl ipsum. Nulla id volutpat sem. Curabitur non orci ante, vel aliquet nisi. Phasellus in nisi in arcu luctus varius. Vivamus hendrerit, dui eu luctus congue, enim mauris sollicitudin diam, eget venenatis elit urna eget est. Vestibulum eu diam mauris.

www.linkedin.com/in/juliepagano

Elements Resources Network Sources Timeline Profiles Audits Console

```

<p>...</p>
<ul class="social">
  <li class="twitter">
    <a href="https://twitter.com/juliepagano">twitter</a>
  </li>
  <li class="facebook">...</li>
  <li class="tumblr">...</li>
  <li class="linkedin">...</li>
</ul>
</div>
<div id="main">...</div>
```

```
.twitter { background: url('../icons/fc-webicon-twitter-m.png') no-repeat; }
```

```
html, body, div, span, applet, object, iframe, h1, h2, h3, h4, h5, h6, p, blockquote, pre, a, abbr, acronym, address, big, cite, code, del, dfn, em, img, ins, kbd, q, s, samp, small, strike, strong, sub, sup, tt, var, b, u, i, center, dl, dt, dd, ol, ul, li, fieldset, form, label, legend, table, caption, tbody, tfoot, thead, tr, th, td, article, aside.
```

# FORMS

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

A screenshot of a web browser window titled "HTML & CSS for Beginners". The URL in the address bar is <https://docs.google.com/spreadsheet/embeddedform?formkey=dDg2...>. The page content is a form titled "HTML & CSS for Beginners - Example Form" with a yellow header. A green banner below the header contains the text "An example form to help people see how forms work!". The form includes several input fields: a "Text input" (a single-line text box), a "Textarea" (a multi-line text area), a "Radio input" section with four options labeled "option1" through "option4", and a "Checkbox input" section with three options labeled "option1" through "option3".

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

colorschemedesigner.com

Undo Redo Random Colorblind Color space Export Help

Normal vision (cca 85.5 % of population)

Protanomaly (1 % of men)

Deuteranomaly (1 % of men)

Tritanomaly (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

EATE  
REE  
INNING  
BSITES  
GO >>

# Color Scheme Designer

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

mono complement triad tetrad analogic accented analogic

Hue: 0° Angle: 30°

warm cold

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

RGB: FF0000

Scheme Preview

Show sample text

Hues Adjust Scheme Color List Preview Light page example Dark page example

colorschemedesigner.com/#

The screenshot shows the main interface of Color Scheme Designer 3. On the left is a large color wheel with various color palettes. A specific palette is selected, shown in a preview window below. To the right of the preview is a vertical list of color vision deficiencies. The 'Deuteranomaly (5 % of men, 0.4 % of women)' option is highlighted. At the bottom of the interface are tabs for 'Hues', 'Adjust Scheme', 'Color List', 'Preview', 'Light page example', and 'Dark page example'.

# 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

A screenshot of a web browser showing the Amazon.com homepage. The search bar at the top contains the word "pragmatic". Below the search bar, a dropdown menu lists several suggestions: "pragmatic programmer", "pragmatic programmer in Books", "pragmatic programmer in Kindle Store", "pragmatic thinking and learning", "pragmatics", "pragmatics of human communication", "pragmatic guide to git", and "pragmatic version control using git". To the right of the search suggestions, there is a promotional banner for "TEXTBOOKS RENT, BUY, SELL".

The bottom half of the screen shows the developer tools Network tab. It displays a table of network requests made by the browser. The table has columns for Name, Method, Status, Type, Initiator, Size Content, Time Latency, and Timeline. There are three rows of data, each corresponding to a "complete" request from "completion.amazon.com/se". The "Status" column shows "200 OK" and the "Type" column shows "text/javascript". The "Initiator" column shows "site-wide-1187". The "Size Content" column shows file sizes of 630B, 467B, 647B, 484B, 647B, and 484B. The "Time Latency" column shows times of 73ms, 60ms, 64ms, 63ms, 59ms, and 59ms. The "Timeline" column shows the time taken for each request.

Name	Method	Status	Type	Initiator	Size Content	Time	Timeline
Path		Text			Content	Latency	
complete	GET	200 OK	text/ja...	site-wide-1187	630B 467B	73ms 60ms	
complete	GET	200 OK	text/ja...	site-wide-1187	647B 484B	64ms 63ms	
complete	GET	200 OK	text/ja...	site-wide-1187	647B 484B	59ms 59ms	

16 requests | 7.26KB transferred

# 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