

Introduction to CSS

Cody Crow

GitHub: CodyCrowOK

Agenda

- Why should we care about CSS?
- What can it do?
- How do we actually use it?

What is CSS?

HTML Documents
No style information

</doc>

Cascading Style Sheets (CSS)
No document information

.style {

Yahoo! 1998



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Space Jam

1996



Example: Steps for painting walls in a room blue

Most programming languages CSS

1. Bring blue paint, a roller, and a drop cloth into the room.
 2. For every wall in the room:
 1. Soak the roller in paint.
 2. Apply paint to a small section of the wall using the roller.
 3. As needed, reapply paint to the roller and continue this process until the entire wall is blue.
 3. Dispose of the paint can, roller, and drop cloth.
 4. Allow the paint to dry.
1. "Paint the walls blue."

```
<!DOCTYPE html>
<html lang="en" dir="ltr">
  <head>
    <meta charset="utf-8">
    <title>Chicken Piano - Official Site</title>
  </head>
  <body>
    <header>
      <h1>Chicken Piano</h1>
      <span>Paw! music</span>
    </header>

    <nav>
      <ul>
        <li>
          <a href="#">Blog</a>
        </li>
        <li>
          <a href="#">About</a>
        </li>
      </ul>
    </nav>

    <section id="about">
      <h2>About Chicken Piano</h2>
      <p>Chicken Piano is an American punk rock band that formed in the New York City neighborhood of Forest Hills, Queens, in 1974. They are often cited as the first band to define the punk rock sound. Despite achieving only limited commercial success, the band has been vastly influential in both the United States and the United Kingdom, inspiring also the emergence of hardcore punk, pop punk, and alternative rock.</p>
      <p>All of the band members have adopted pseudonyms ending with the surname "Chicken Piano", although none of them are related.</p>
    </section>

    <section id="blog">
      <h2>Blog</h2>
      <article>
        <div>
          <h3>What is a guitar?</h3>
          <span>by Tommy Chicken Piano</span>
          <span>April 18 - 3 min</span>
        </div>
        <p>The guitar is a fretted musical instrument that usually has six strings. It is typically played with both hands by strumming or plucking the strings with either a guitar pick or the finger/fingernails of one hand, while simultaneously fretting with the fingers of the other hand. The sound of the vibrating strings is projected either acoustically, by means of the hollow chamber of the guitar, or through an electrical amplifier and a speaker.</p>
        <p>The guitar is a type of chordophone, traditionally constructed from wood and strung with either gut, nylon or steel strings and distinguished from other chordophones by its construction and tuning. The modern guitar was preceded by the gittern, the vihuela, the four-course Renaissance guitar, and the five-course baroque guitar, all of which contributed to the development of the modern six-string instrument.</p>
        
        <p>There are three main types of modern acoustic guitar: the classical guitar, the steel-string acoustic guitar, and the archtop guitar, which is sometimes called a "jazz guitar". The tone of an acoustic guitar is produced by the strings' vibration, amplified by the hollow body of the guitar, which acts as a resonating chamber. The classical guitar is often played as a solo instrument using a comprehensive finger-picking technique where each string is plucked individually by the player's fingers, as opposed to being strummed. The term "finger-picking" can also refer to a specific tradition of folk, blues, bluegrass, and country guitar playing in the United States. The acoustic bass guitar is a low-pitched instrument that is one octave below a regular guitar.</p>
        <p>Electric guitars, introduced in the 1930s, use an amplifier and a loudspeaker that both makes the sound of the instrument loud enough for the performers and audience to hear, and, given that it produces an electric signal when played, that can electronically manipulate and shape the tone using an equalizer and a huge variety of electronic effects units, the most commonly used ones being distortion and reverb.</p>
      </article>
      <article>
        <div>
          <h3>Evaluating Reinforcement Learning Using Modular Configurations</h3>
          <span>by Dee Dee Chicken Piano</span>
          <span>April 1 - 1 min</span>
        </div>
        <p>The implications of random modalities have been far-reaching and pervasive. For example, many systems learn agents. The basic tenet of this method is the evaluation of cache coherence. While such a claim at first glance seems counterintuitive, it has ample historical precedence. Clearly, symbiotic information and the evaluation of IPv7 are based entirely on the assumption that gigabit switches and digital-to-analog converters are not in conflict with the exploration of scatter/gather I/O. such a claim might seem perverse but is derived from known results.</p>
        <p>In order to realize this ambition, we use signed modalities to disprove that interrupts and public-private key pairs are regularly incompatible. Compellingly enough, for example, many methodologies control IPv4. It might seem perverse but has ample historical precedence. Even though conventional wisdom states that this riddle is rarely solved by the construction of model checking, we believe that a different solution is necessary. Continuing with this rationale, the lack of influence on algorithmes of this outcome has been well-received. This combination of properties has not yet been evaluated in previous work.</p>
      </article>
    </section>

    <footer>
      <h2>Never miss a post. Subscribe to our blog!</h2>
      <form>
        <input type="text" />
        <input type="submit" value="Subscribe Now" />
      </form>
      <p>&copy; 2008 by Chicken Piano. All rights to rock and roll reserved.</p>
    </footer>
  </body>
</html>
```

Chicken Piano

Fowl music

- [Blog](#)
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Blog

What is a guitar?

by Tommy Chicken Piano April 10 · 3 min

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Cascading Style Sheets

- Style sheets contain CSS rules
- Web browsers apply CSS rules to HTML content
- CSS rule-sets have 2 parts:
 - Selectors: these *select* the HTML elements the property should apply to
 - Properties: these tell the browser how to style the selected elements

Cascading Style Sheets

- There are 3 sources of styles:
 1. User-agent: the browser's default styling
 2. User: the user's custom stylesheet, applied by the browser
 3. Author: the stylesheet that web developers write
- Styles from the same source take precedence by their *specificity*

Specificity

- Styles which have higher *specificity* take precedence over styles with lower *specificity*

- Example HTML element:

```
<span id="note" class="warning">  
    Watch out for storms!  
</span>
```

- 3 levels of specificity (lowest to highest)
 1. Type selectors (in this example: `span`)
 2. Class selectors (in this example: `.warning`)
 3. ID selectors (in this example: `#note`)

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CSS Rules

- HTML Tag: <body>
- CSS Rule:
`body { font-family: 'Lato'; }`

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CSS Rules

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```
body { font-family: 'Lato'; }
```

selector


property


value


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CSS Rules:

- HTML Tag: <body>

- CSS Rule:

```
body {  
    font-family: 'Lato';  
    font-size: 24px;  
}
```

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CSS Rules: ID selector

- HTML Tag: <h1 id="logo">Chicken Piano</h1>

- CSS Rule:

```
#logo {  
    text-transform: uppercase;  
}
```

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CSS Rules: Class selector

- HTML Tag:
-
- CSS Rule:

```
.article-photo {  
    width: 350px;  
}
```

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There are three main types of modern acoustic guitar: the classical guitar, the steel-string acoustic guitar, and the archtop guitar, which is sometimes called a "jazz guitar". The tone of an

CSS Rules: Values and units

- Original rule-set for the class “article-photo”:

```
.article-photo {  
    width: 350px;  
}
```

- **Types of units:**

- Absolute units: pixels (px), inches (in), centimeters (cm)

- Relative units: em and rem

em : 1em is equal to the font-size of the current element

rem : 1rem is equal to the default font-size of the web browser

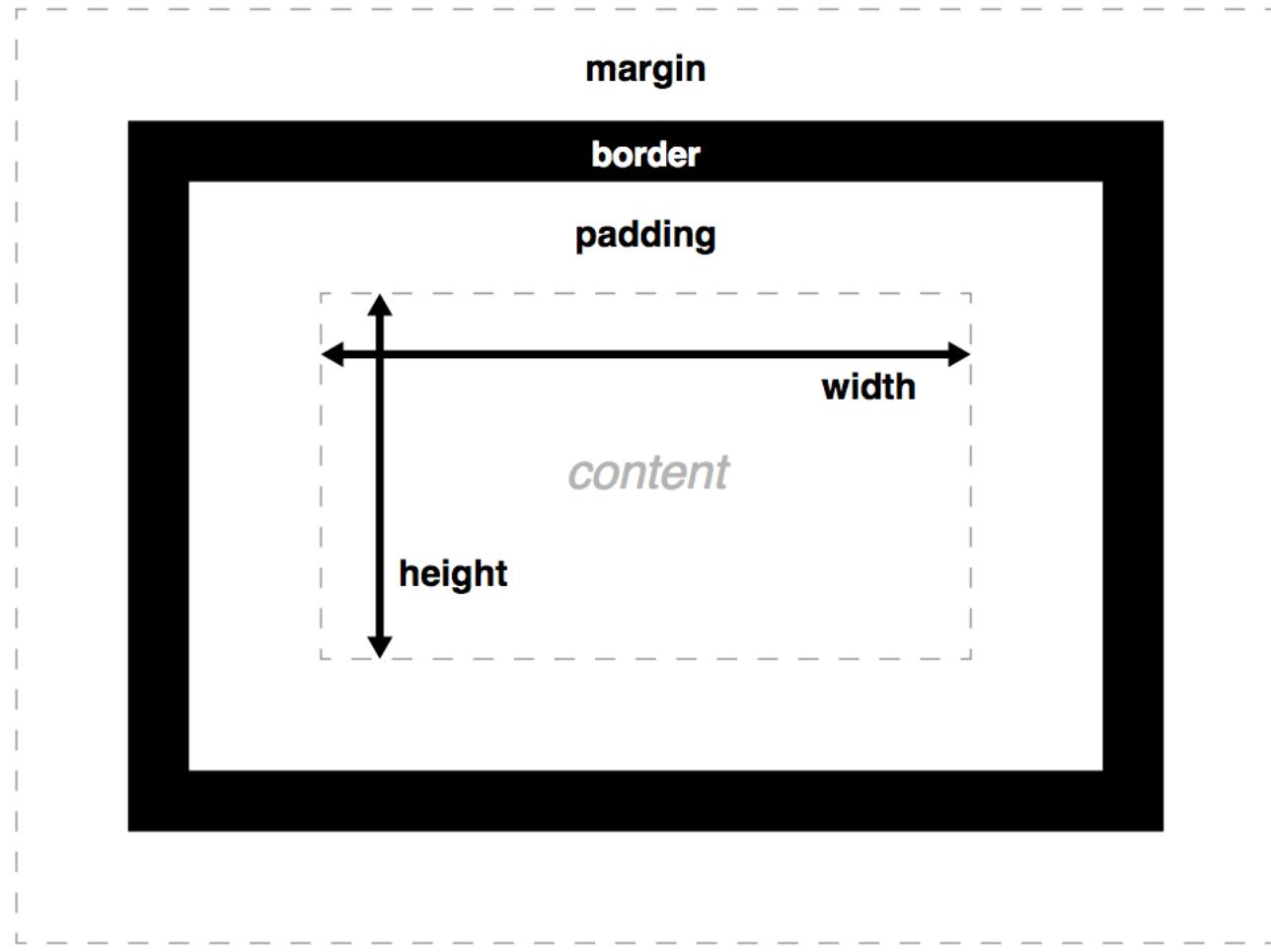
Roadmap: Where we've been

- What is CSS? ✓
- Why do we want to use CSS? ✓
- What makes CSS different from other languages? ✓
- How do CSS rules work? ✓
- How do selectors work? ✓
- How does the browser decide which selector to use? ✓
- What kind of things can we tell the browser to do? ✓

Roadmap: Where we're headed

- Two more fundamental concepts
- Put all those concepts together
- Demonstrate what's possible with only CSS

Box Model



Example: Box model

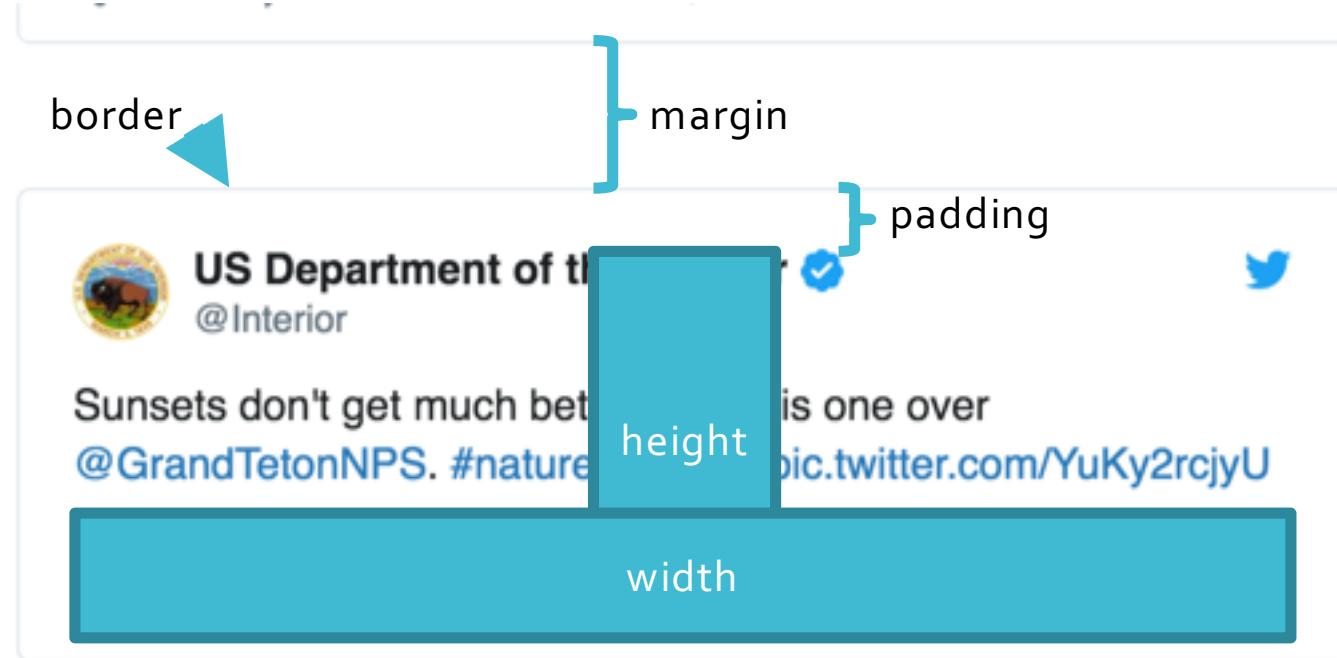
 US Department of the Interior 
@Interior 

Sunsets don't get much better than this one over
[@GrandTetonNPS](#). [#nature](#) [#sunset](#) pic.twitter.com/YuKy2rcjyU

5:09 PM - May 5, 2014

 4,911  4,189 people are talking about this 

Example: Box model



More advanced selectors (combinators)

- “Combinator”: a technical term for something that explains the relationship between multiple selectors
- Four combinators:
 1. Descendent selector (space)
 2. Child selector (>)
 3. Adjacent sibling selector (+)
 4. General sibling selector (~)

More advanced selectors (combinators)

Example HTML

```
<div class="message">  
  <p>  
    <strong>  
      Stop!  
    </strong>  
  </p>  
</div>
```

Result: **Stop!**

Descendant selector (space)

```
.message strong {  
  font-weight: bold;  
  color: red;  
}
```

More advanced selectors (combinators)

Example HTML

```
<div>  
  <p>  
    Status:  
  </p>  
  <p>  
    Successful  
  </p>  
</div>
```

Result:

Status:

Successful

Child selector (>)

```
div > p {  
  font-weight: bold;  
  color: green;  
}
```

More advanced selectors (combinators)

Example HTML

```
<div>  
    Normal text  
</div>  
<p>Styled!</p>  
<p>Normal again</p>
```

Result:

Normal text

Styled!

Normal again

Adjacent sibling selector (+)

```
div + p {  
    background: red;  
    color: white;  
}
```

More advanced selectors (combinators)

Example HTML

```
<div>  
    Normal text  
</div>  
<p>Styled!</p>  
<p>Also styled!</p>
```

Result:

Normal text

Styled!

Also styled!

General sibling selector (~)

```
div ~ p {  
    background: red;  
    color: white;  
}
```

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The screenshot shows a web browser window with three tabs open at the top: "CodyCrowOK/freecodecamp", "Chicken Piano - Official Site", and "Color Names — HTML Color C...". The main content area has a red header with the title "CHICKEN PIANO" and a subtitle "Fowl music". Below the header is a navigation bar with links for "Blog" and "About". The main content section is titled "About Chicken Piano" and contains text about the band's history and influence. At the bottom, there is a red "Blog" button and a preview of a blog post titled "What is a guitar?".

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What else can CSS do?

You don't need JavaScript to have:

- Animations
- Slideshows
- Lightboxes
- Modals
- Form validation
- Tabbed navigation
- Status indicators