

Recap of HTML/CSS and Javascript

DAT504 - 25 September

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**What makes someone
good at programming?**

Thoughts on programming

- Understand the main concepts, look up the details
 - Searching (google, documentation, even stackoverflow) is an important skill
 - Read the documentation
- Problem solving, be persistent!
- When debugging, try to break down the problem

Today

- HTML recap
- CSS
 - Recap
 - New: Flexbox
- Javascript
 - Recap
 - Functional

HTML

- What's that again?
- Anatomy of a webpage
- Semantic HTML

Hyper Text Markup Language

“

Markup

[mass noun] Computing a set of tags assigned to elements of a text to indicate their relation to the rest of the text or dictate how they should be displayed: *[as modifier]* : *markup languages*.

Some dictionary

Hyper Text Markup Language

- Outlines structural elements of web pages
- Important for SEO and screenreaders

```
<h1>A level one heading</h1>
```

(You know how word messes up your Table of Contents if you don't use the right heading levels? Kinda works the same for screenreaders with HTML tags.)

Semantic tags

- html
- Head
- body
- Header
- footer
- Nav
- Section
- Block quote, cite
- Output
- Progress
- Aside
- Embed

<https://developer.mozilla.org/en-US/docs/Web/HTML>

Anatomy of a webpage

Bare essentials

.....

```
<!DOCTYPE html>
<html lang="en" dir="ltr">
  <head>
    <meta charset="utf-8">
    <title>Gerrit Neven</title>
  </head>
  <body>

  </body>
</html>
```

- DOCTYPE
 - Specifies that it's HTML and what version (used to be lots of variations, now it's just 'html')
- head
 - Specifies information about the page (used by browser, SEO, links in social media)
 - Title will show up in the tab bar
- body: contains actual page content

```
<!DOCTYPE html>
<html lang="en" dir="ltr">
  <head>
    <meta charset="utf-8">
    <title>Gerrit Neven</title>
  </head>
  <body>
    <header>
      <nav>
        <a href="#">About</a>
        <a href="#">Portfolio</a>
        <a href="#">Github</a>
      </nav>
    </header>

    <main>
      [...]
    </main>

    <footer>
      [...]
    </footer>

  </body>
</html>
```

.....

```
<body>
  <nav>
    [...]
  </nav>

  <main>
    <h1>Gerrit Neven</h1>
    <section>
      <h1>Work Experience</h1>
      <ul>
        <li>Freelance developer – 2017 to present</li>
        <li>Web developer – Hertzian – 2015 to 2016</li>
      </ul>
    </section>

    <section>
      <h1>Education</h1>
      <ul>
        <li>Digital Art & Technology – Plymouth University</li>
        <li>Communication & Multimedia Design – Hogeschool Avans</li>
        <li>Voortgezet Wetenschappelijk Onderwijs – de Passie</li>
      </ul>
    </section>
  </main>

  <footer>
    Thanks for reading! – All rights reserves © 2018
  </footer>

</body>
```

- Reading: <https://internetingishard.com/html-and-css/semantic-html/>

CSS

Cascade Style Sheet

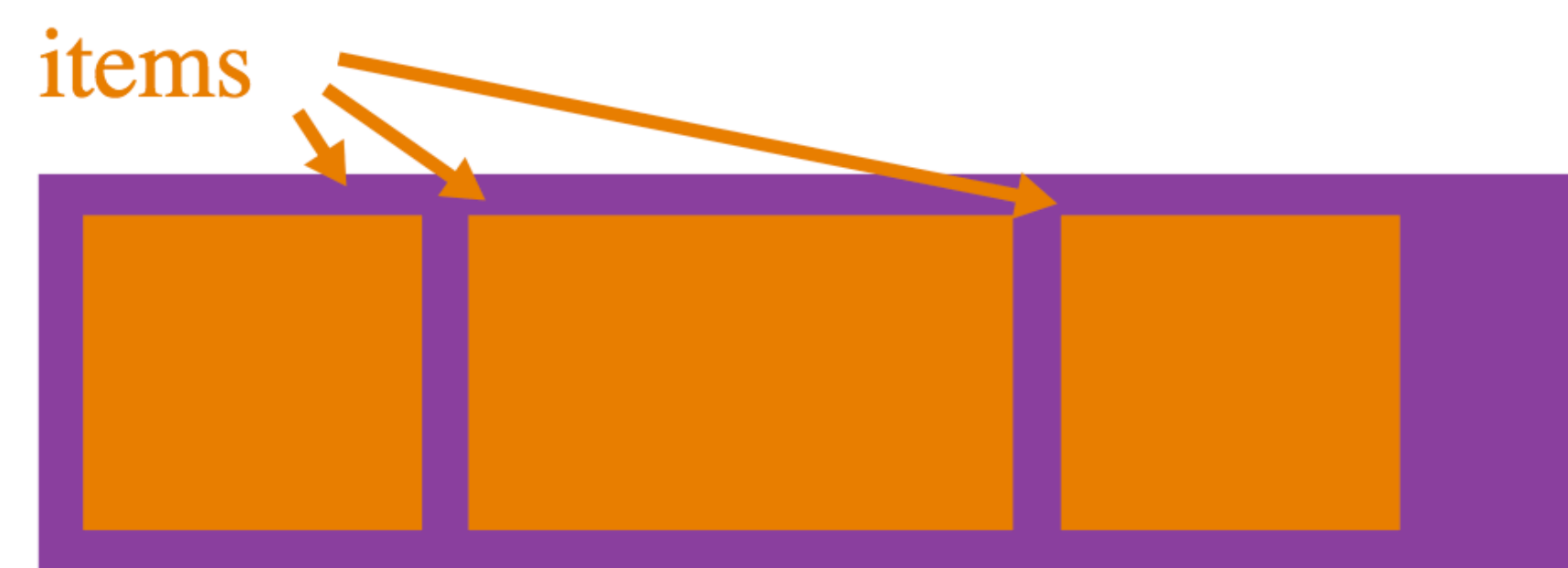
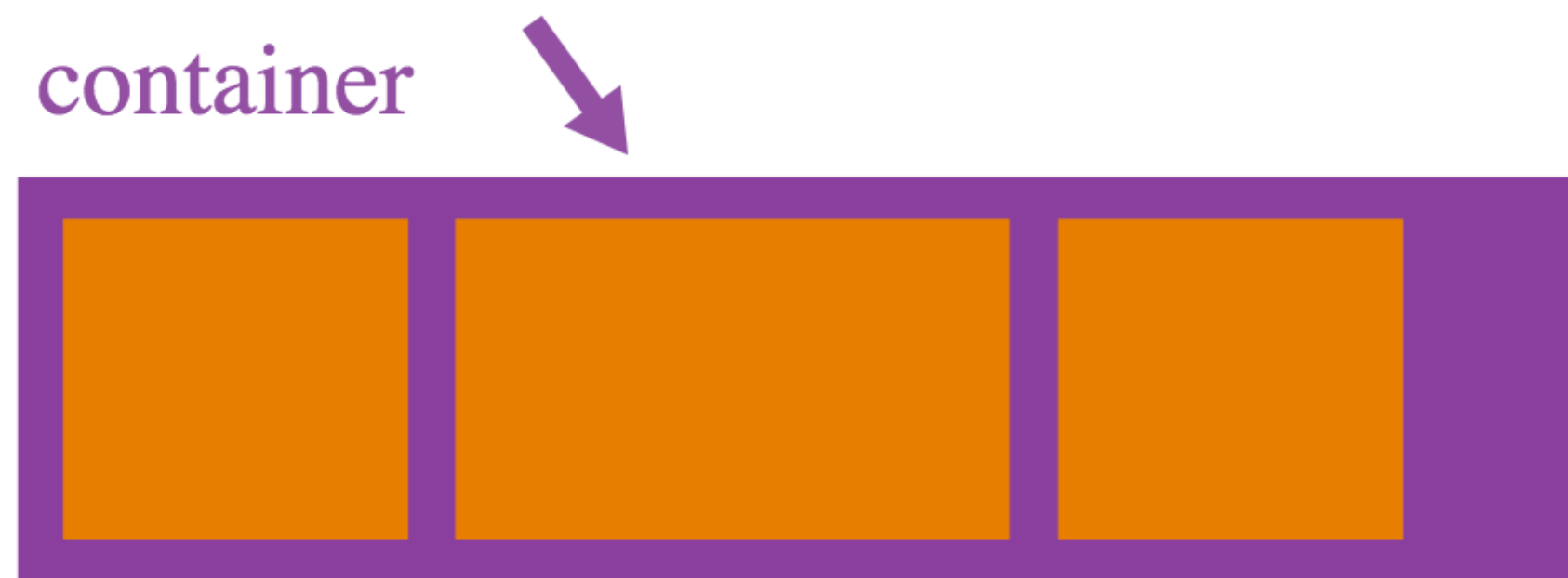
- Cascades (surprise)
- Selectors
 - elements
 - Classes
 - ID's
 - pseudo-selectors

Flexbox

- New alternative to floating for page layouts
- Based on elements adjusting ('flexing') to available space
- Enable flexbox by settings `display: flex`

```
<div class="parent">
  <div class="child"></div>
  <div class="child"></div>
</div>
<style media="screen">
  .parent {
    display: flex; /* activate flexbox mode for children elements */
  }
</style>
```

Flexbox



Flex: parent

- Flex-direction: set main axis (row for x, column for y)
- justify-content: alignment on main axis
- align-items: alignment on cross axis

Flex: child

- Flex: set relative sizes
- align-self: sets individual alignment on secondary axis/go “rogue”

Flexbox reading list

<https://css-tricks.com/snippets/css/a-guide-to-flexbox/>

<https://internetishard.com/html-and-css/flexbox/>

**Lets play around with
flexbox**