Hello!

# Intro to Coding-HTML & CSS

GENERAL ASSEMBLY

# Natalie Huitson

## Associate Front End Developer

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- I attended GA in 2016 after changing careers from a writer to a developer.
- I now work at ASOS which has been the best decision of my working life.
- Advocate for Mums in tech and to bring more women into tech


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# Who are GA?

We empower people to pursue work they love through education in business, coding, data, and design.

Intro to Coding

# What Is Web Development, Anyway?

# Is It Magic?

# It’s Actually More Like...

**Editing text files (coding/programming)**

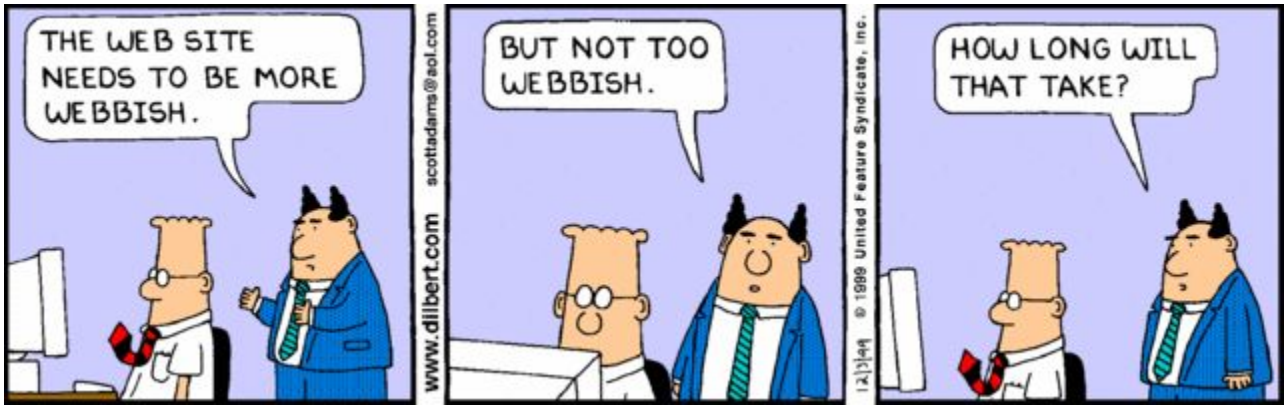
“I am making the internet!”

**Fixing problems (crying)**

“Oh no, I broke it again.”

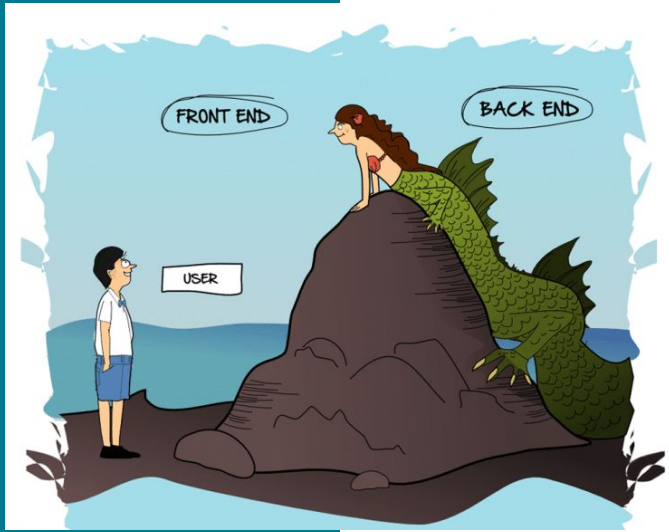
# Web Development, Defined

**Web development** is the creation and management of both websites and web-based applications.



## The Front-End
**(The look and feel)**

Everything that users visually see in their web browser or application.

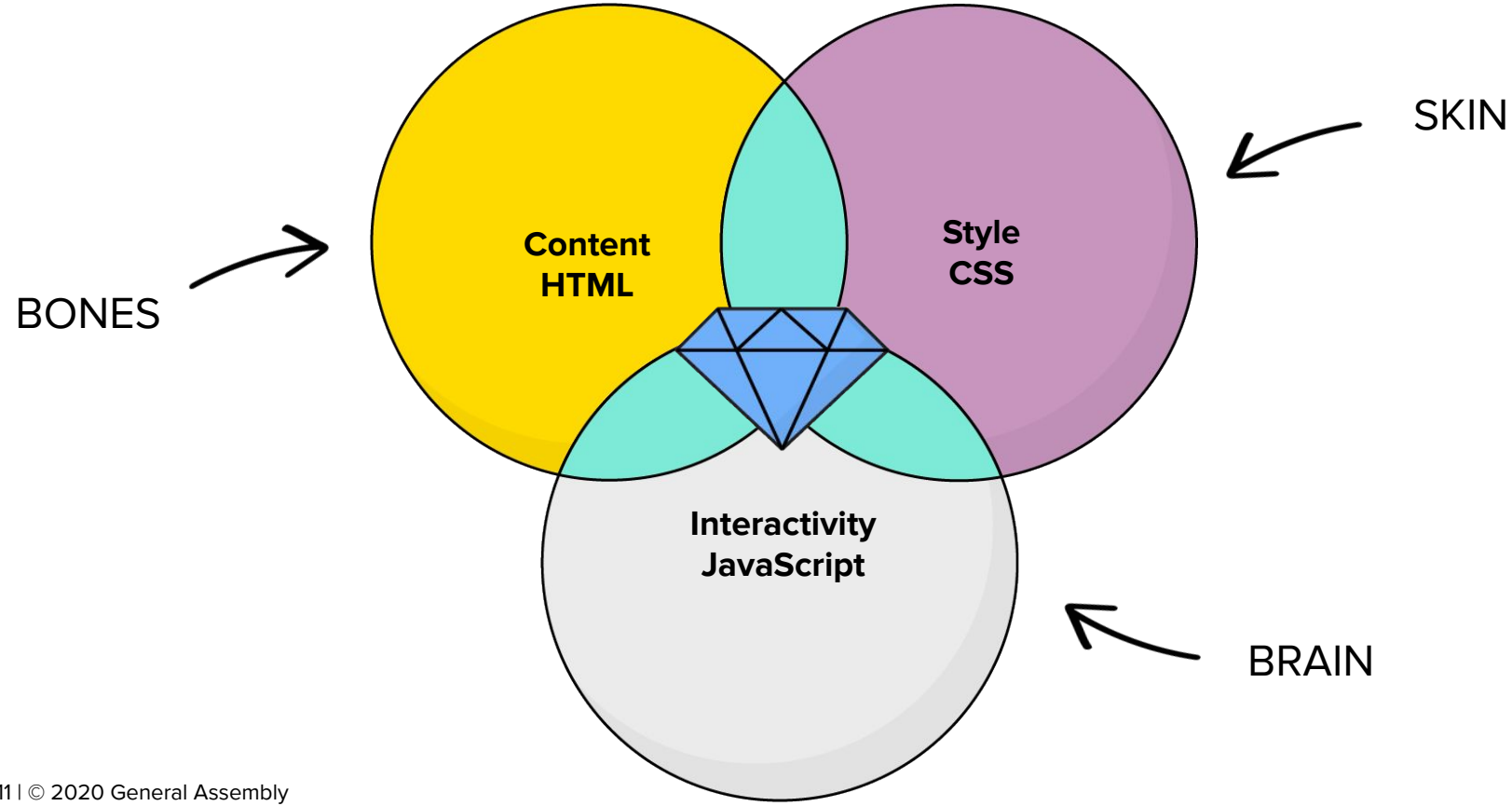



## The Back-End
**(How it works)**

Everything that communicates between the database and the web browser.

# The Front-End Comprises...

# The Front-End Trio

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Intro to Coding

# HTML: A Closer Look

# What Is HTML?

SECTIONS
SEARCH
LOG IN
U.S. INTERNATIONAL 中文
The New York Times

# What Is HTML? (Cont.)

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# What Is HTML? (Cont.)

# What Is HTML? (Cont.)

Intro to Coding

# You don’t have to memorise all HTML elements!

KEEP

CALM

JUST

GOOGLE

IT

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# HTML: Hypertext Markup Language

- HTML is made up of tags.
- Tags tell the browser how to format content (e.g., will the content be formatted as an image or as a link?)

```
<h1>Hello World!</h1>
```

**These are tags**

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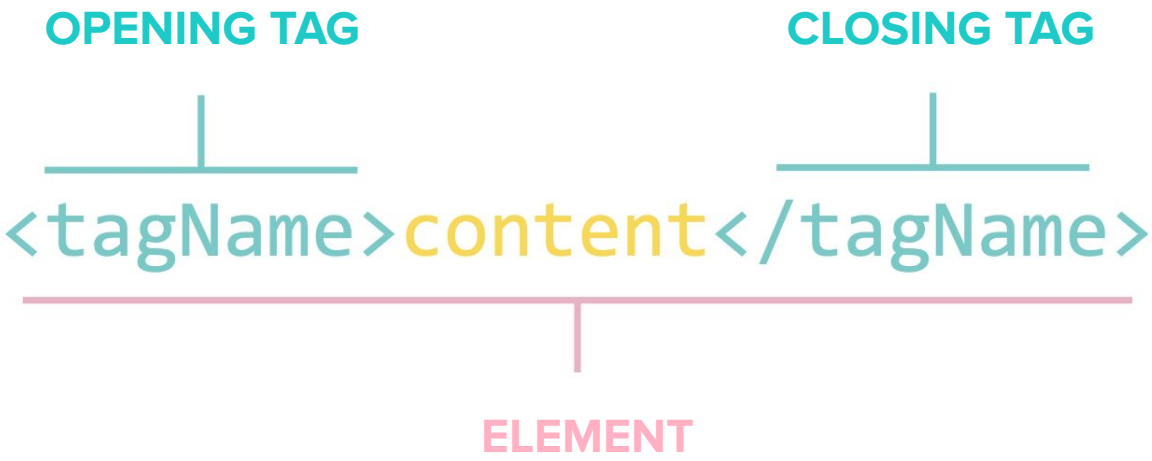
# How Do I Write HTML?

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# Headings and Paragraphs

| ELEMENT | DESCRIPTION | EXAMPLE |
| --- | --- | --- |
| h1 | Main headings | `<h1>The Explorer</h1>` |
| h2-h6 | Subheadings | `<h2>Articles</h2>` |
| p | Paragraph of text | `<p>This is a really cool site.</p>` |

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# Lists

| ELEMENT | DESCRIPTION | EXAMPLE |
| --- | --- | --- |
| `li` | List item | `<ul>`<br>`<li>Monday</li>`<br>`<li>Tuesday</li>`<br>`<li>Wednesday</li>`<br>`</ul>` |
| `ul` | Unordered list | |
| `ol` | Ordered list | `<ol>`<br>`<li>Monday</li>`<br>`<li>Tuesday</li>`<br>`<li>Wednesday</li>`<br>`</ol>` |

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# Anchors

| ELEMENT | DESCRIPTION | EXAMPLE |
| --- | --- | --- |
| a | Anchor | <a>Amazon</a> |

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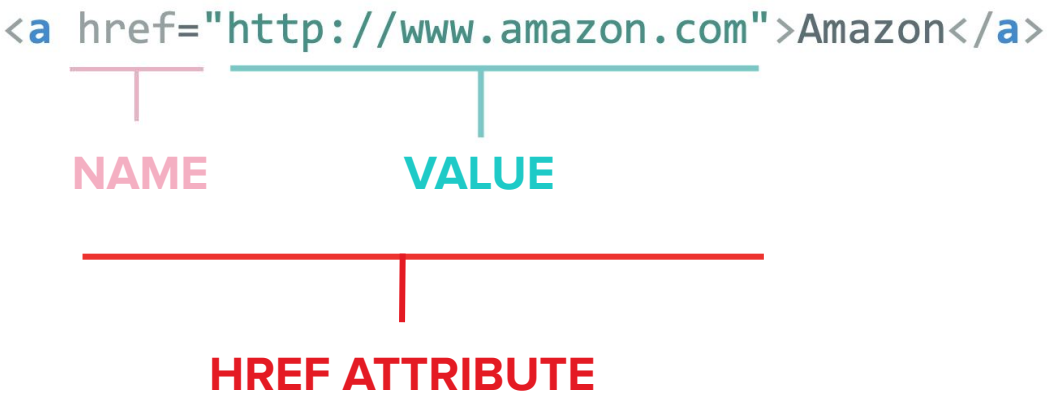
# Attributes (Cont.)

**Attributes are additional information we add to an element.**

- They appear in the opening tag of the element.
- They are made up of two parts: a name and a value, separated by “=”.

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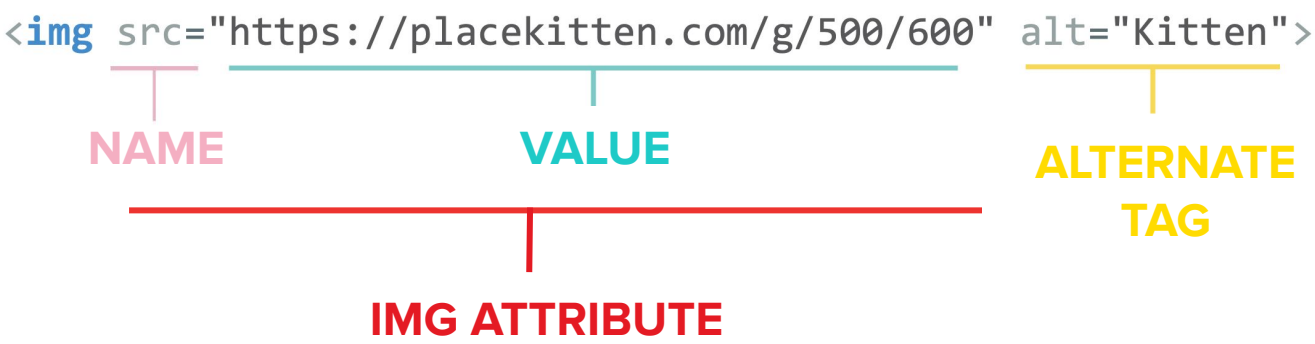
# Attributes (Cont.)

**Image elements `<img>` also require attributes!**

- This tells the browser what image should be rendered on the page.
- Alternate tags tell robots what is depicted in the image (you're not the only one reading what's in the browser!).

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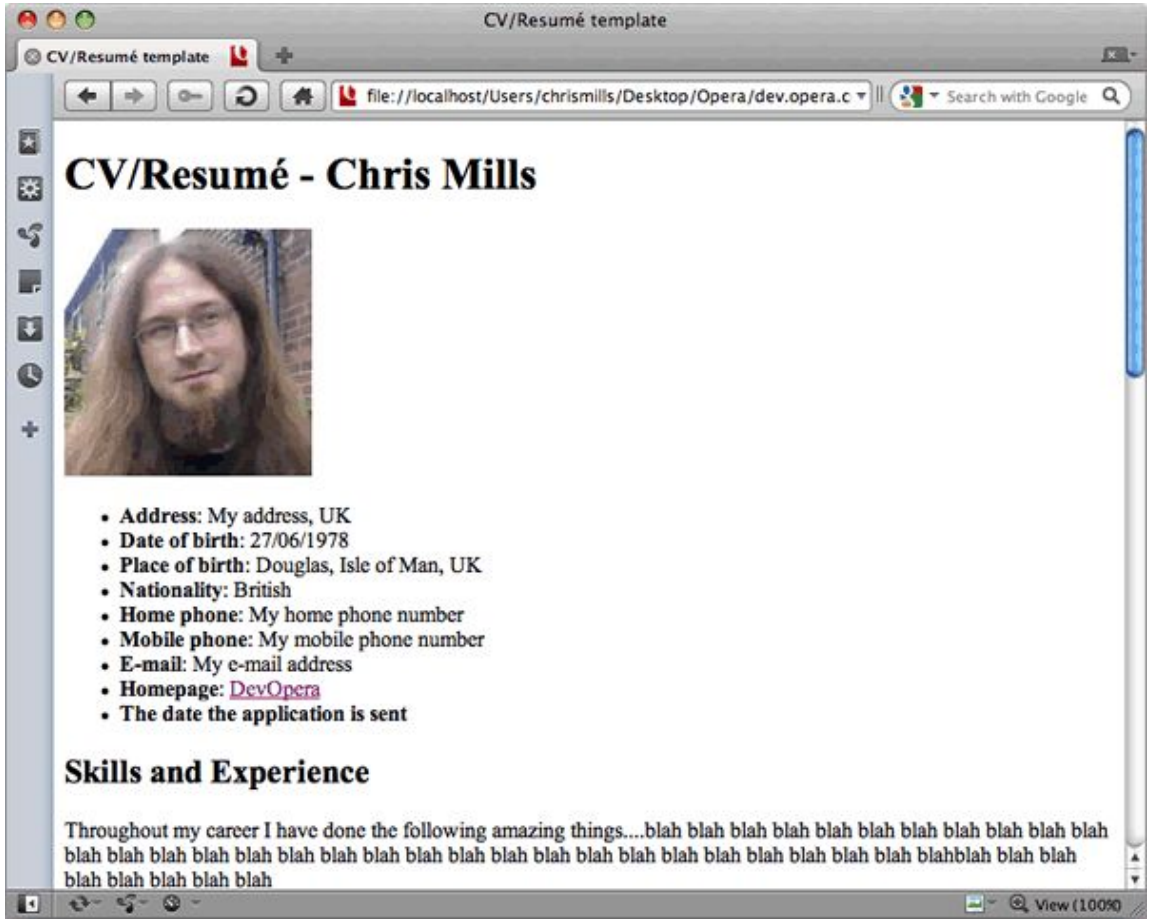
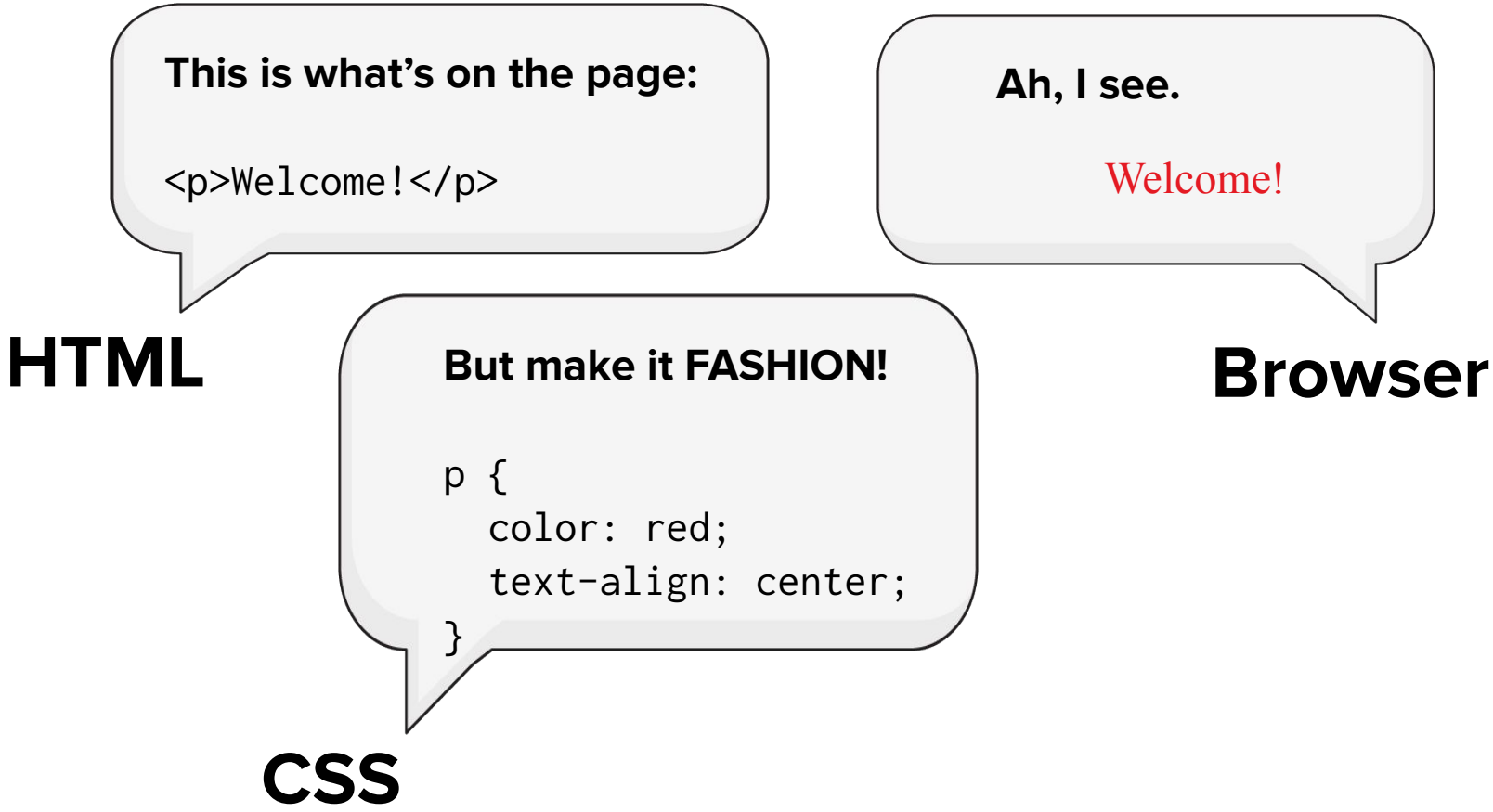
# CSS: A Closer Look


CV/Resumé template
CV/Resumé template
file://localhost/Users/chrismills/Desktop/Opera/dev.opera.c
Search with Google
CV/Resumé - Chris Mills
Address: My address, UK
Date of birth: 27/06/1978
Place of birth: Douglas, Isle of Man, UK
Nationality: British
Home phone: My home phone number
Mobile phone: My mobile phone number
E-mail: My e-mail address
Homepage: DevOpera
The date the application is sent
Skills and Experience
Throughout my career I have done the following amazing things....blah blah blah

# Let's Add Some Style

HTML CSS


This is what's on the page:
Welcome!
HTML
Ah, I see.
Welcome!
Browser
But make it FASHION!
p {
color: red;
text-align: center;
}
CSS

# What Is CSS?

**SELECTOR**
(what we are styling)

**DECLARATION BLOCK**
(our styles!)

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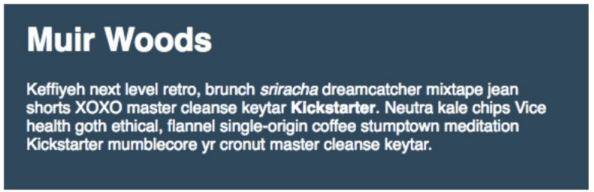
# Color

| PROPERTY | VALUE | DESCRIPTION | EXAMPLE |
| --- | --- | --- | --- |
| `color` | `color` | Text color | `color: #22475E;` |
| `background-color` | `color` | Background color | `background-color: green;` |




```
body {
  background-color: #22475E;
}
```

```
h1, p {
  color: #98D2BF;
}
```

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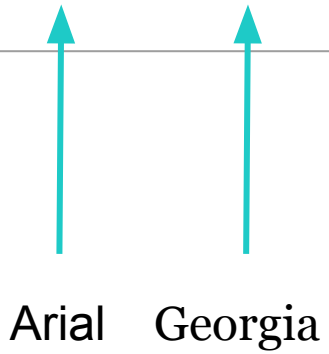
# Typeface

| PROPERTY | VALUES | EXAMPLE |
| --- | --- | --- |
| text-align | left, center, right, | text-align: center; |
| text-transform | uppercase, lowercase, capitalize | text-transform: uppercase; |
| text-decoration | none, underline | text-decoration: underline; |
| letter-spacing | px value | letter-spacing: 1px; |
| font-weight | normal, bold | font-weight: bold; |
| font-style | regular, italic | font-style: italic; |
| font-size | px value | font-size: 20px; |

# Fonts

| PROPERTY | VALUES | EXAMPLE |
| --- | --- | --- |
| font-family | “Font-family”, sans serif, serif | font-family: "Georgia", serif; |

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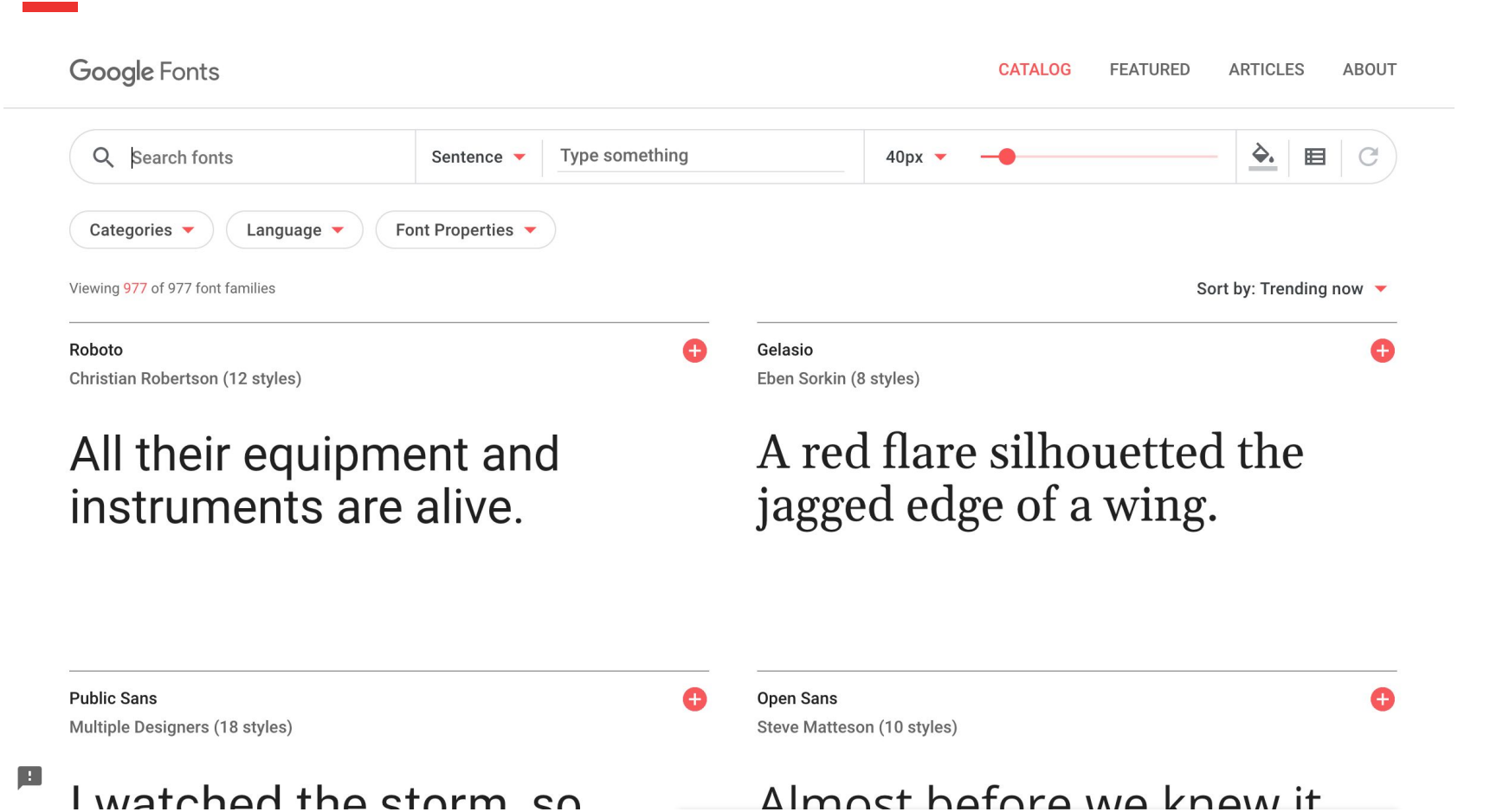
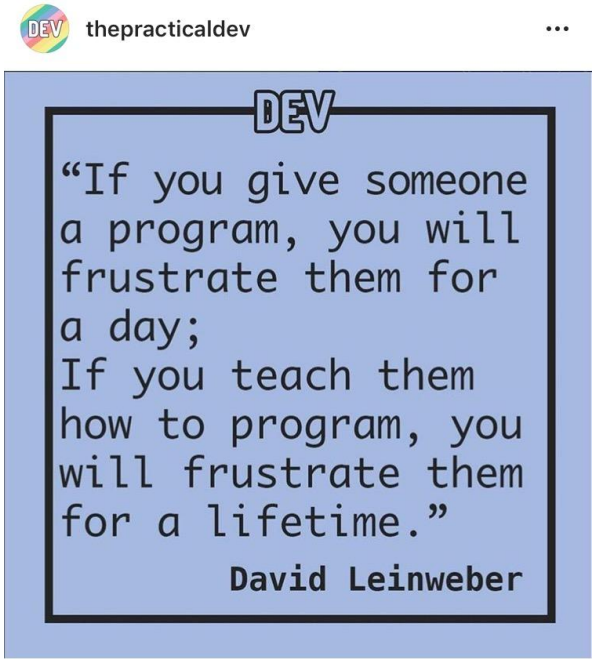

Google Fonts
CATALOG
FEATURED
ARTICLES
ABOUT
Search fonts
Sentence
Type something
40px
Categories
Language
Font Properties
Viewing 977 of 977 font families
Sort by: Trending now
Roboto
Christian Robertson (12 styles)
All their equipment and instruments are alive.
Gelasio
Eben Sorkin (8 styles)
A red flare silhouetted the jagged edge of a wing.
Public Sans
Multiple Designers (18 styles)
Open Sans
Steve Matteson (10 styles)

# Just one more thing....

- Being a developer is 90% looking up how to fix broken code and 10% actual coding.
- It's not about knowing everything; it's being able to find the answers (i.e., doing a really good Google search).
- Resources include:
  - Mozilla Developer Network
  - W3Schools
  - CSS Tricks

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Intro to HTML & CSS

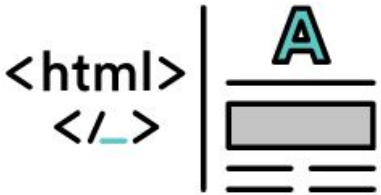
# Next Steps

# Which Developer Role Is Right for Me?

| Type | What They Do | Languages | Good For |
|---|---|---|---|
| **Front-End Developer** | Make websites and applications functional and delightful for users. | JavaScript, HTML, CSS | Creatives, UX lovers, anyone who wants to make a website |
| **Back-End Developer** | Make the FE a reality and ensure websites and applications work well. | PHP, Java, Ruby, Python, SQL | Organizers, dependable types, people who like getting under the hood |
| **Full-Stack Developer** | Works on both the FE and BE; a great fit for startups. | JavaScript, HTML, CSS, PHP, Java, Ruby, Python, SQL | Whole-picture thinkers, startup fans |

# Coding at GA

**Part-Time Courses:**
**Front-End Web Development**
**Python**
**JavaScript**
**React**

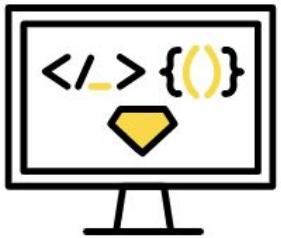



Part time
Instructor led
On campus or online

**Online, Self-Led Courses:**
**JavaScript Circuit**
**HTML, CSS, & Web Design Circuit**

Part time
Self led
Online

**Immersive Courses:**
**Software Engineering Immersive**




Full or part time
Instructor led
On campus or online

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# Q&A

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