

Developer Summit

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Intro to CSS for Geographers

Patrick Arlt | [@patrickarlt](https://twitter.com/patrickarlt)

<http://bit.ly/1Oh4BDd>

Fork me on GitHub



esri

Origin Story

Lots of tools. Very little fundamentals.
This talk is all fundamentals

First Some Notes

Lots of supplemental info in these slides. Designed to help you keep learning beyond this talk.

CSS is Hard

Closer to art than computer science

Lots of hard, unintuitive concepts

It has taken me *years* to amass this knowlage

Lets do stuff with CSS!

Customize Esri Apps

Use Frameworks

Build Web Pages

Make Apps

Basics



"rule"

```
html, body, #map {  
  margin: 0;  
  width: 100%;  
  height: 100%;  
}
```


"selector"

```
html, body, #map
```

"declaration"

```
html, body, #map {
```

```
}
```

"property"

```
html, body, #map {  
  margin:  
  
}
```

"value"

```
html, body, #map {  
  margin: 0;  
  
}
```

"property"

```
html, body, #map {  
  margin: 0;  
  width:  
}
```

"value"

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html, body, #map {  
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"property"

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```

"value"

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html, body, #map {  
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"rule"

```
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```



How CSS Works

Cascading Style Sheets

Cascading Style Sheets

Styles from different sources *cascade* and coalesce into the final styles for an HTML tag.

A typical cascade

- Browser default stylesheet
- User defined stylesheets
- Stylesheets you include with `<link>`
- `<style>` tag
- Inline `<style>` attributes `<div style="...">`
- CSS values with `!important`

CSS Specificity

1. `!important`
2. Inline style `<div style="...">`
3. `<style>` and `<link>` tags
4. Selector determine specificity

Selector Specificity

1. id - #map
2. class - .container
3. tag - body

CSS Explain

In a specificity tie the last loaded rule wins.

Inspecting CSS

Right click on something you want to change click
"Inspect Element"

[Explore a storymap](#)

Building our App

Alternate Fuel Stations

What?

This dataset represents the locations of non-gasoline alternative fueling stations which provide biodiesel, CNG, electric, ethanol, hydrogen, LNG, and/or propane.

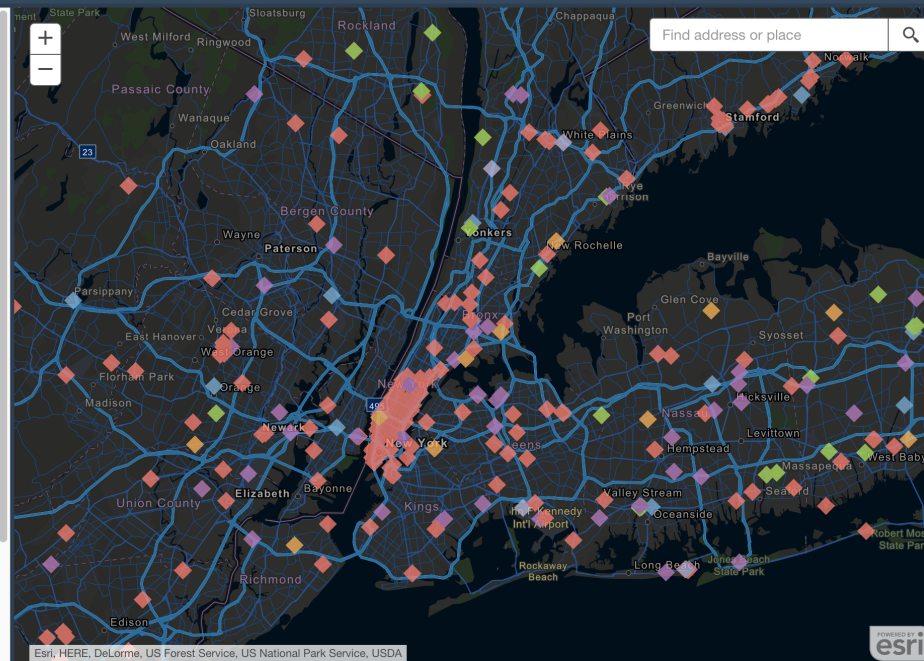
Why?

More than 250 million vehicles consume millions of barrels of petroleum every day in the United States. On-road passenger travel alone accounts for more than 2.5 trillion vehicle miles traveled each year. Vehicle fleet managers and drivers, corporate decision makers, and public transportation planners can use this data to develop strategies to conserve fuel.

How?

Through a nationwide network of local coalitions, Clean Cities (<https://cleancities.energy.gov/>) provides project assistance to help stakeholders in the public and private sectors deploy alternative and renewable fuels, idle-reduction measures, fuel economy improvements, and emerging transportation technologies. Department of Energy collects this data as part of the Projects undertaken by Clean Cities coalitions and stakeholders to ensure customers access to clean alternative energy. Clean Cities is the department of the US

Data from the [Homeland Infrastructure Foundation - Level Data](#) Open Data Site.



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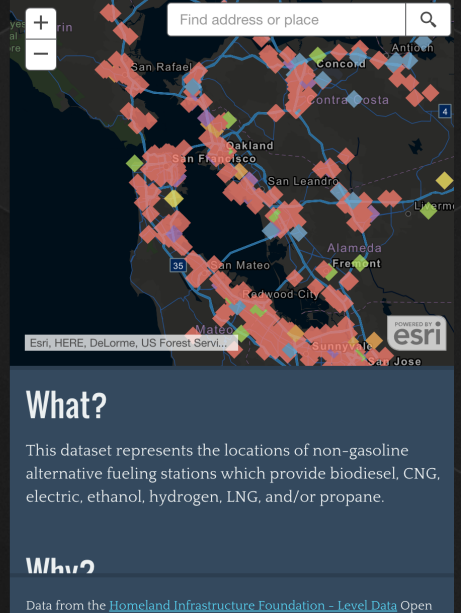
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Block vs Inline

- The Difference Between “Block” and “Inline”
- Block-level elements
- Inline elements
- Learn CSS Layout: the "display" property

Units

- Full unit reference
- The Lengths of CSS
- Unit and Values - QuirksMode

Floats

- [All About Floats](#)
- [CSS Floats 101](#)
- [Learn CSS Layout: float](#)

Problems with Floats



Clearing Floats

- Learn CSS Layout: clear

Clearfix

- [Learn CSS Layout: clearfix](#)

The Box Model

- The CSS Box Model
- Introduction to the CSS box model
- Learn CSS Layout: the box model

Box Sizing

- Learn CSS Layout: box-sizing
- * { Box-sizing: Border-box } FTW
- Box Sizing
- box-sizing

Flexbox

- [Flexbox Froggy](#)
- [A Visual Guide to CSS3 Flexbox Properties](#)
- [Learn CSS Layout: flexbox](#)
- [Can I Use: flexbox](#)
- [A Complete Guide to Flexbox](#)
- [Using CSS flexible boxes](#)

Margin, Padding and Borders

- Mastering margin collapsing
- What You Should Know About Collapsing Margins
- Compare block elements to pictures hanging on a wall

Media Queries and Responsive Design

- Responsive design gallery
- Using media queries
- Media Queries for Standard Devices
- Learn CSS Layout: media queries

Positioning

- Learn CSS Layout: position
- position

Typography (Choosing Fonts)

- Google Fonts
- Google Web Fonts Typographic Project
- Font Pair
- Font tool roundup

Typography (Sizing Type)

- TypeScale
- A More Modern Scale for Web Typography

Adding Color

- Flat UI Colors
- Calcite Web Colors
- Color Pairing Matrix
- Adobe Kuler
- Color Lovers

Adding JavaScript

Browser Compatibility

Sometime browsers will add experimental or early support for a new standard. They will often add a prefix like `-webkit-`, `-moz-` or `-ms-` to a property or value.

Sites like [Can I Use?](#) or [MDN](#) to check if browsers support a specific property.

Tools like [Autoprefixer](#) to add prefixes automatically.

More Browser Compatibility

Remember Microsoft only supports IE 11 officially now. All other versions are not supported and might have security bugs.

Scary!



Keep Learning!

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