

# Browser Developer Tools (DevTools)

- Your most powerful tool for webdev
  - Including for backend development
- Built in to all major browsers
  - Safari requires a Preference be set
- "Inspect" will focus the given element

Let's checkout **<https://examplecat.com/>**

# **DevTools has many parts**

Here are some of the more notable parts to start with

- Elements
- Sources
- Console
- Network

We'll look at some other sections later

# Elements "Tab"

- NOT the raw loaded HTML
  - IS the elements the Browser is using
- Has "Styles" for the selected Element
- Displayed elements can be collapsed/expanded

## **Elements can be added/deleted/edited/hidden**

- This only impacts the browser copy of the page
  - Not the "real" file on the server
  - All changes lost when you reload the page
- Commonly used to test out changes

# Elements display their box model

- Box model shown in "Styles"
- Parts of box model can be hovered
- ANY element hovered in Elements shows box model on rendered page

# Element - Styles offers many interactions

- Styles applied to the element are shown
  - Along with source of that style
  - "User agent" means the browser
  - Overridden styles are crossed out
  - Shorthand properties can be expanded
- Can enable/disable styles
- Properties can be edited
- Styles can be added to element (inline)
- New rules can be added

All changes are to browser copy only; lost on reload

# **Sources shows unrendered assets**

- HTML
- Images
- CSS
- JS

Will also show files from your extensions

# **Console is mainly used with browser JS**

- More later
- Console also available with Esc key on other DevTools



# Network shows requests/responses

- Right click heading to pick what data to show
- Includes "automatic" requests
  - redirects, loading images/CSS/JS files
- Status code, Method, and Path important to us
- We disabled "cache" when DevTools open
  - Browser saves/reuses files for speed
  - We disable to make rapid changes during dev
  - We disable to get better view on page speed
- Later we will view data sent/received here

# DevTools Summary

- Powerful and built in tool for webdev
- We can see the HTML browser "sees"
  - May be different than intended
- We can see box model parts
  - No longer need to hack CSS dashed borders
- We can see and change applied styles
- We can see Request/Responses