

# Understanding Your Scraped Data

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# Overview



**Chrome Developer Tools**

**Check div and span elements**

**Extract text from these elements**

**Add confidence with a unit test**



# Content vs. Styling

## HTML

Page specific content

Structure

Text or voice

Not written for scraping

## CSS

Shared styling

Selectors and Declarations

Divisions and Spans

Cascading rules

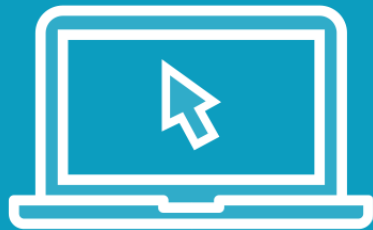


HTML  
HEAD  
BODY  
DOM

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# Demo



Investigate our page's structure with  
Chrome Developer Tools

Select elements

Make changes live

Debug errors in the page

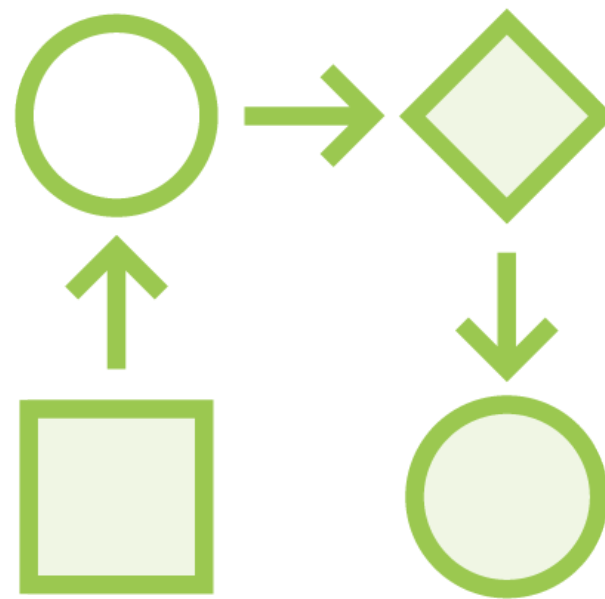


What's your strategy?

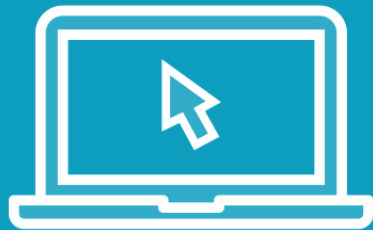
What do you need?

Find relevant tags and  
selectors

Note examples of the  
content you'll extract



Demo



Extract information with BeautifulSoup4

Why not regular expressions?

- They're brittle!
- Very hard to read
- Very hard to support
- You end up recreating a parser!

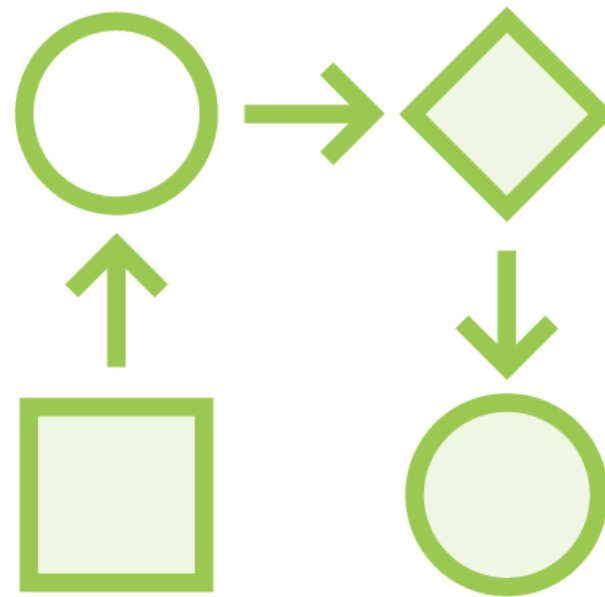


Selecting your  
content

BeautifulSoup  
elements

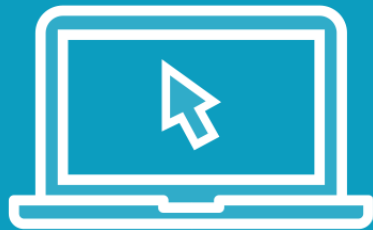
Find functions

CSS Selectors





# Demo



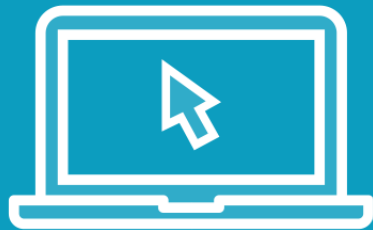
PyCharm is a modern IDE

Great debugging support

We'll run and debug our code in it



# Demo



Tests let us write robust code

We can explore edge cases

Adapt to changing situations with confidence

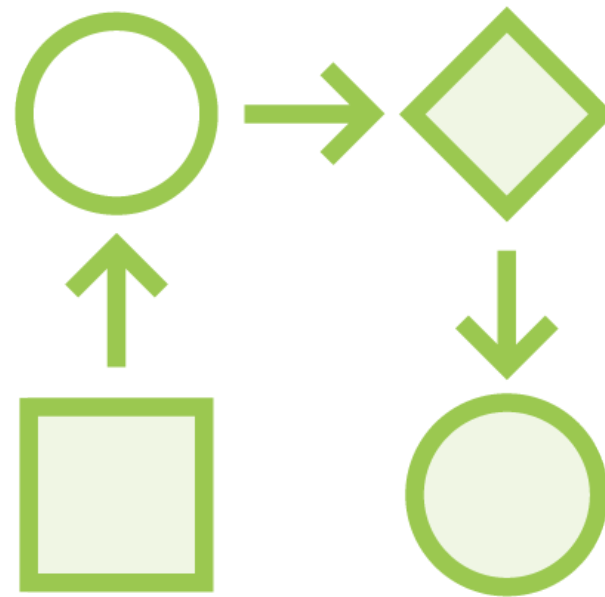


Processing online  
limits growth

Processing off-line is  
scalable

Adapt to changes

Extract incrementally



# Summary



We've extracted key information

Our test gives us confidence

Ready to export information

Next we'll visually explore our data

