XML and HTML

APIs and Web Scraping with Python

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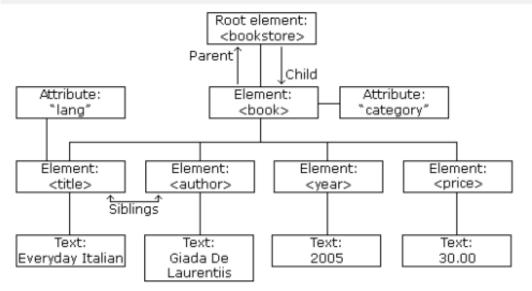
Structure of XML

Elements:

- have names
- contain text
- can have attributes
- can contain other elements

Relationships among elements:

- parent (indent left)
- child (indent right)
- sibling (same indent)



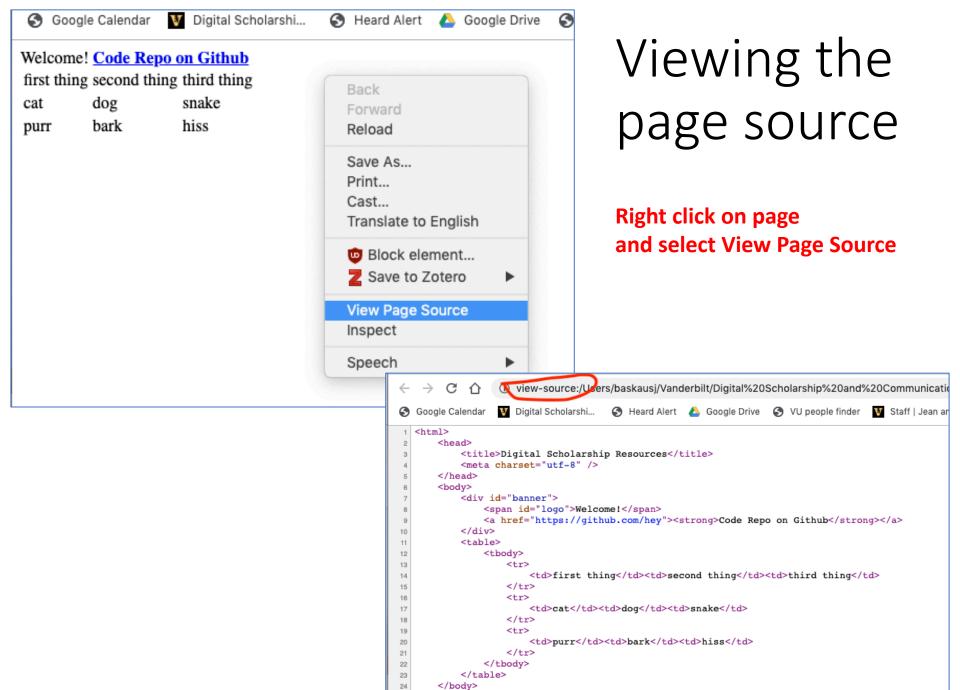
HTML is XML (mostly)

```
<html>
   <head>
       <title>Digital Scholarship Resources</title>
       <meta charset="utf-8" />
   </head>
   <body>
       <div id="banner">
           <span id="logo">Welcome!</span>
           <a href="https://github.com/hey"><strong>Code Repo on Github</strong></a>
       </div>
       <t.r>
                  first thingtd>thingthing
               catdogsnake
               purrbarkhiss
               Digital Scholarshi...
                                      Google Calendar
       </body>
                                     Welcome! Code Repo on Github
</html>
                                      first thing second thing third thing
                                                      snake
                                      cat
                                             dog
```

hiss

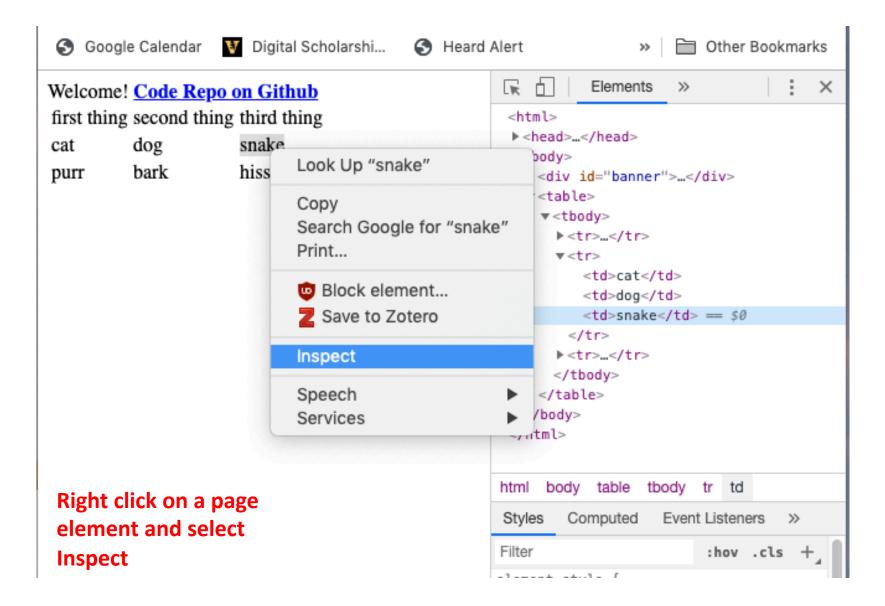
bark

purr

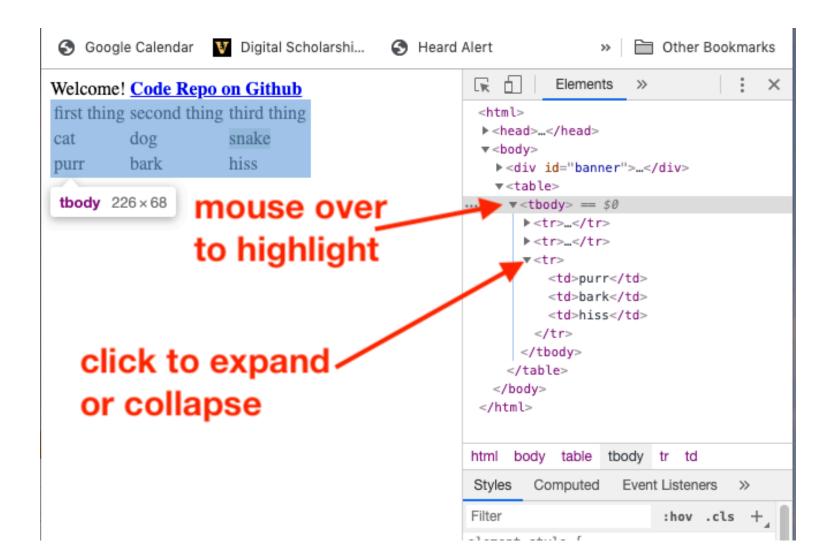


</html>

Inspecting the HTML of a page



Drilling down on elements



HTML of more complex pages

Many tags (div, span, tr) are used at different places in the document, but can be distinguished by their attributes

