

Javascript-ish



The nerves of the system

Today's Agenda

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- **Generate Docs** for Connect4
- **Monster!** Finish up/Redo Monster.py with all the awesome new TDD skills you have
- **Stylin' Docs~** Style your Connect4 docs someway that's more... nice
- **Javascript Introduction!** Wheeeeeee!
- **Playin' with JS**

Generating Docs in Python

- Navigate in the command line to the directory you want to put your docs in.
- Run: `python3 -m pydoc -w filename1.py filename2.py filename3.py`
 - Make sure you list your base classes first (classes that do not depend on others)
- Admire your auto-generated docs

Monster!

Find your
Monster.py
module and take
some time to
wrap that class
and it's tests up.

Monster

name: String (set on init)

status: “Out of Tokyo”

health: 10

victory_points: 0

reset() – reset Monster to initial stats

in_tokyo():Bool – returns True if Monster status is “In Tokyo”

flee():Bool – prompts monster to see if they want to flee Tokyo. If “y”,
return True. If “n”, return false

heal(int) – add the passed int to the Monster’s health, up to but not
exceeding 10

attack(int):int – subtract the passed int from the Monster’s health,
returning health. If health is ≤ 0 , set status to “K.O.”

score(int):int – add passed int to Monster’s victory_points, and
return victory_points. If a Monster’s VP ≥ 20 , set status
to “WINNING”

Stylin' Docs!

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Let's fix those gross ol' Python Docs (as much as we can!) with CSS!

First, a chat about HTML Tables.

HTML Tables

- Tables present information in a grid format.
- They're helpful for displaying data that is more easily read in a two-axis format, such as bills, schedules, results, grades, etc
- They're *not* helpful for designing the layout of your entire web page (that is so 90's)

HTML Tables

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```
<table> <!-- table tag -->
  <tbody> <!-- table body tag -->
    <tr> <!-- table row tag -->
      <th></th> <!-- table header tag -->
      <th></th>
    </tr>
    <tr>
      <td></td> <!-- table cell tag -->
      <td></td>
    </tr>
  </tbody>
</table>
```

Bonus Table Things!

- <thead> and <tfoot> are tags! (Bet you can't guess what they are for)
- colspan and rowspan are attributes you can use on td and th tags to have cells span multiple rows or columns
- You can do a lot of cool things with data with tables, like store Python Docs, apparently...

Stylin' Docs (Really)



Create or copy style.css into your docs directory for your Connect 4 project.

Style those docs! Play with tables! Explore! Remind yourself how CSS and HTML work.

What is Javascript?



Javascript is a scripting language.

Scripting languages are recipe books for your computer – they tell your computer to do things, often based on the interactions of other things, like you.

Scripting languages do not need to be compiled or pre-processed, they just run. They let other things do the heavy lifting – they just tell them where to lift.

It Defines the Behavior



- Javascript enhances the usability and/or interactiveness of your web page
- It allows you to make pages that are responsive, not just static
- Most common uses:
 - form validation
 - animation
 - real-time interactions

The Javascript



The Javascript is everywhere online. It's in the web sites you visit, the links you click – it's in the page you're reading right now.

We are surrounded by the Javascript.

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大正十二年九月

459

不思議の小説

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中華書局影印

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Javascript

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According to the W3C, which defines the rules and regulations of Javascript, it is the most used programming language *in the world*.

People are making everything imaginable with Javascript – web pages, games, applications, frameworks, other languages, even operating systems.

Javascript: A Brief History



- In 1995, Brendan Eich created Javascript in 10 days as a client-side scripting language for Netscape (remember them?)
- It was originally called LiveScript, but at the last second, management renamed it to Javascript because there was hype around Java at the time
- Javascript has absolutely NOTHING to do with Java (thanks marketing team)
- It was licensed by Sun (which owned Java...) shortly after and was developed into a more ‘solid’ language that was capable of much, much more

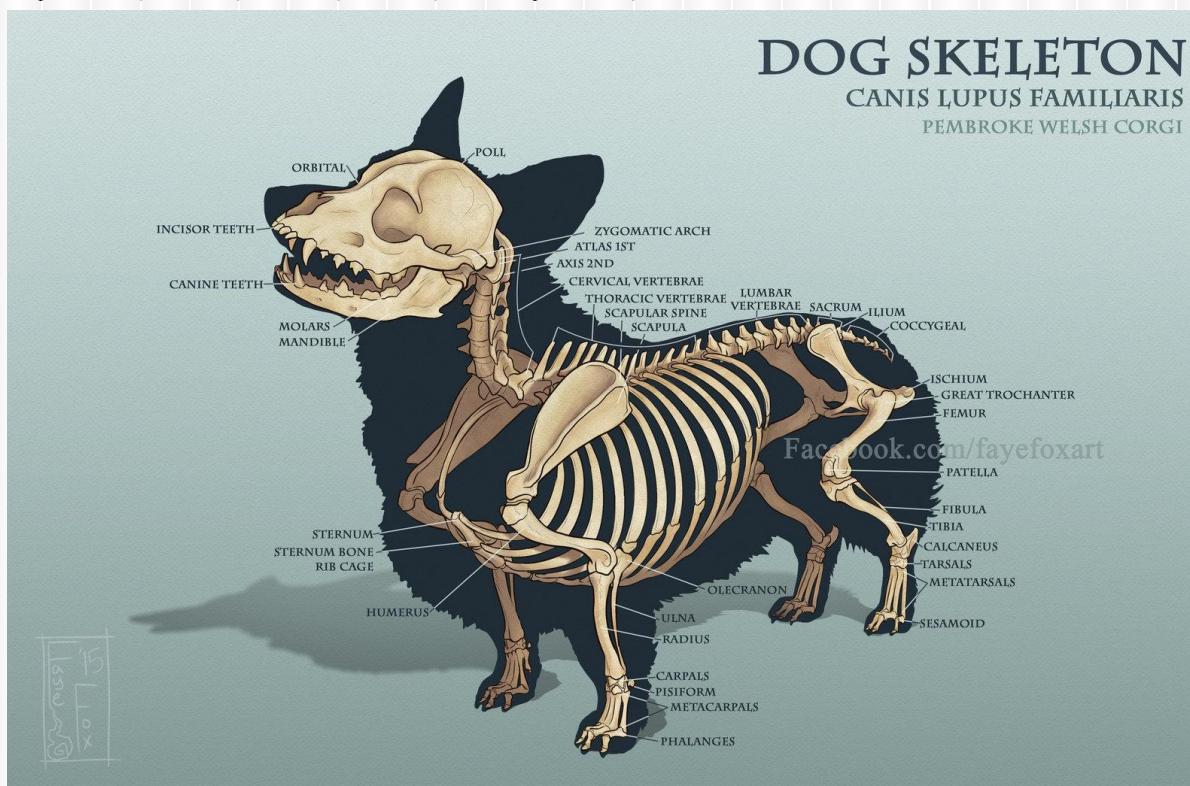
Your Website is a Corgi

.....

Stick with me...



It's HTML is the Skeleton



It's CSS defines its appearance..



Different CSS, means different appearances.

.....



Javascript... is the nerve system



www.thefify.org

The Many Breeds of Corgis



Coriginal



HardCorg



Cycorg



Corgo



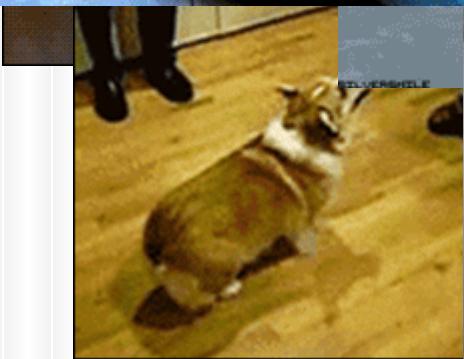
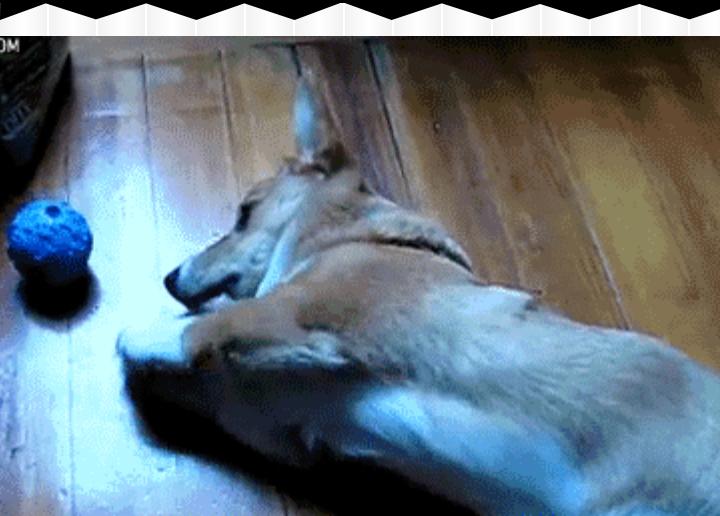
Corganized



CorGif

Loldwell.com

Javascript



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You shouldn't let your nerves
screw up your skin or bones.

Some JS Examples



These are silly things, but they should show you some ideas of things you can do with Javascript.