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Introduction to Computer Science (CS164)

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4 December 2018

## Documentation of PET Project

Link: https://www.cs.drexel.edu/~mom34/PETProjectV2.html

<u>Backstory:</u> "This is Cat the.... Cat. I honestly couldn't think of a better name for it, so I will leave it to the grader or whoever is reading this documentation. He's/She's (could not think of a gender too) just your average cat. It likes to be petted and being fed. It hates to be given baths. But one thing that makes Cat special is the fact not only does it change its fur color and breed depending one what state it is, but it likes video games, specifically the Super Smash Bros. series and its hype for the newest Smash Bros. game to come out this week, Smash Bros. Ultimate!"

<u>Purpose:</u> To simulate a form of AI through making a virtual PET.

<u>HTML extras</u>: These lines of HTML codes give the webpage its name and show the header of the webpage, as well as stylize said header.

The HTML code: This code sets the class for all the pictures to be put in a slideshow, with the "PictFrame" class which holds the all pictures' class via nesting of div tags upon each other, which also help accompanies each text class to accompany its respective class. This is done for all five states. The following lines makes buttons with specific labels and functions in doing so. The last line before the </body> tag is of a text area that will indicate to the user if a state has been changed or is in initial.

<u>The CSS code</u>: This code was mainly used to construct the main slideshow frames, such as the borders of the frame; and by extension the picture. The section starting with ".text" stylizes the text by making the border, making the font different and size larger.

The JavaScript code: The DisplayPics() function is the main function that gives the pictures its order and allows the value "i" to increment to match the value of the specific class of pictures. The function ProgPics compiles the previous function with the picture index to alter the picture based on the picture displayed. The function Justwaiting() is linked to one of the buttons established in the HTML code, which details to the user how the PET's interface should work. HoverEmotTouch and HoverEmotLeave work concurrently with one hovering their mouse over the image and out of it to toggle Happy and Relaxed states. The last set of functions TimeToEmotEX(), TimeToEmot(), and TimeToEmotMess() are a time function that if its goes off, the state will change and a message should appear

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prescripts
prescr
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The TimeToEmot() works when the user has the PET in idle, and after a few more seconds, will starts the previously talked about functions. This called immediately after the function's construction. The last functions just display the work behind what changes the pictures, by taking an id's properties and changing the source of it into a different picture. The variables that are the arrays are the root of the functions that randomly select a state in place of another. The math.random() take that substring and selecting a slide corresponding to that number and displays it. This is done to three out of the four functions. The various clearTimeouts are done to stop any prompts from appearing when you finish

## Full Table of States

	Being Fed	Petting Pet	Taking a Bath	Playing Smash Bros. Ultimate
Relaxed	Angry	Нарру	Angry	Нарру
Нарру	Sleepy	Relaxed	R (Angry, Happy, or Sad)	Нарру
Angry	Нарру	Relaxed	Angry	Нарру
Sad	Angry	Нарру	Sad	Нарру
Sleepy	R (Angry, Happy, or Sleepy)	R (Angry, Relaxed, and Sleepy)	Angry	Нарру

Further information can be found in the comments of the code.