

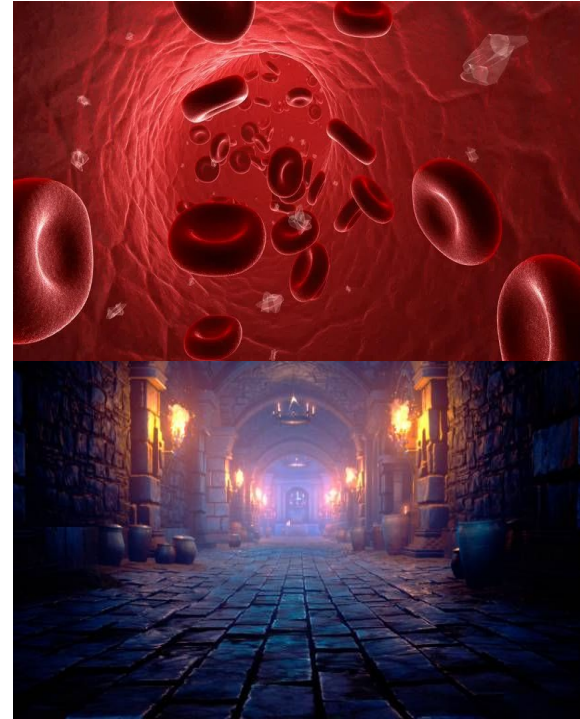
# Hormone Adventure Game



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# Purpose

- To make a quick and fun study game that helps students review the hormone pathways in the body
  - The game is in the form of a text-based fantasy adventure game
- Target audience:
  - Students taking Anatomy and Physiology



# What We Accomplished

- TextGame.py
- Picture.py
  - .jpeg showing flowchart
- GUIGame.py
  - .jpeg showing flowchart

# TextGame.py

What it is:

- Code for a 'text-based game'

What it does:

- Serves as proof-of-concept for the fantasy adventure study game
- The current build of the game completely overviews the adrenal axis
  - This pathway describes the process of cortisol production in the body

<https://youtu.be/unprwTsnXO8>

A screenshot of a text-based game interface. The background is black, and the text is displayed in a light gray, monospaced font. The text reads: 'Welcome to the Hormone Adventure Game. This is the list of possible starting Hormones: ['GSH', 'CRH', 'TRH', 'Parathyroid Hormone', 'Inactive Vitamin D'] Please choose a Hormone: ' followed by a cursor.

Welcome to the Hormone Adventure Game. This is the list of possible starting Hormones:  
['GSH', 'CRH', 'TRH', 'Parathyroid Hormone', 'Inactive Vitamin D']  
Please choose a Hormone: '

**This video is a walkthrough of the text-based game.**

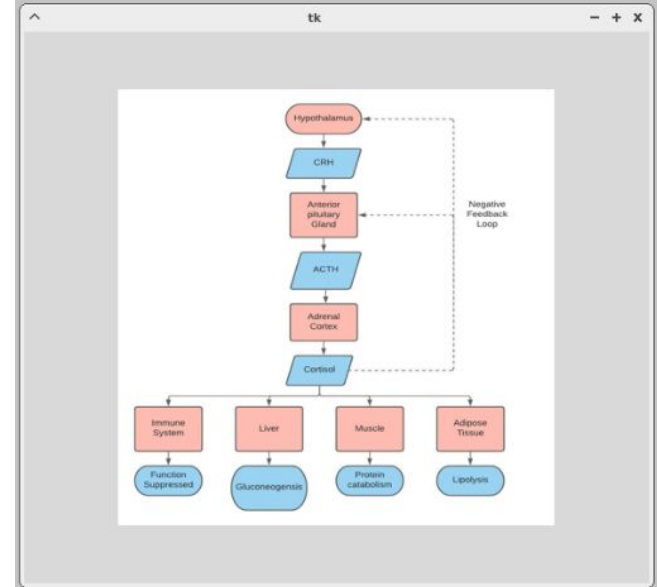
# Picture.py

What it is:

- Sample code for inserting .jpeg image into GUI

What it does:

- Can be used in addition to text-based game, in order to summarize hormone pathway



# GUIGame.py

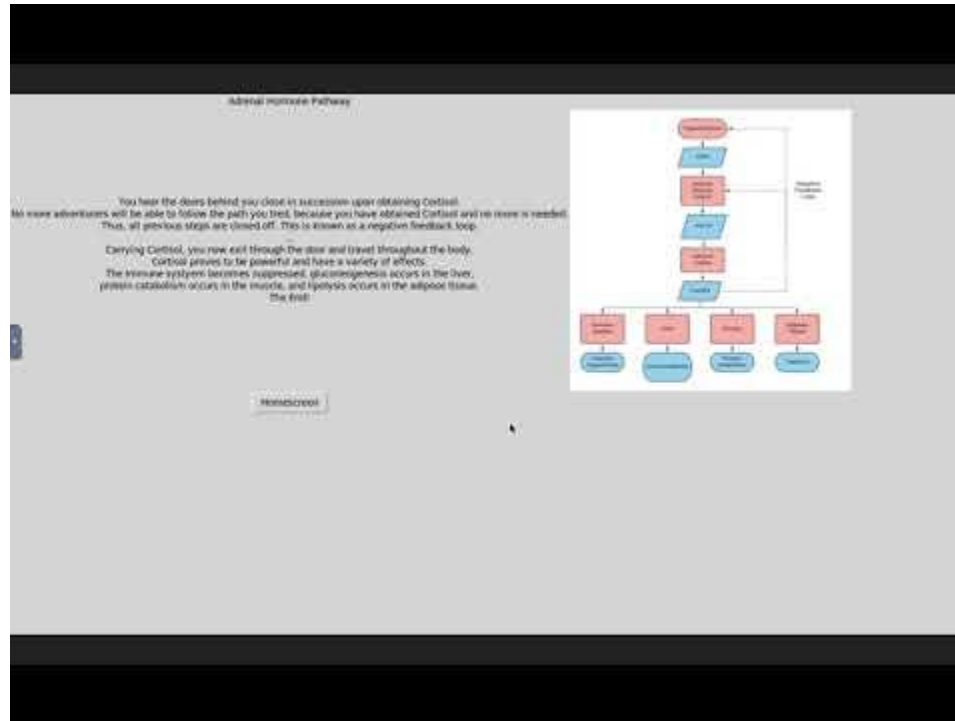
What it is:

- Code for an interactive game

What it does:

- This version of the prototype visualizes the adventure of TextGame.py
- A flowchart (.jpeg file) is also incorporated in the GUI, to display the player's adventure in the adrenal axis
- The current version of GUIGame.py still needs to include all player options, but does include the full adrenal axis pathway

<https://youtu.be/wRYORiiPpdQ>



**This video is a walkthrough of the GUI game.**



# GUI Future Directions

- Finish adding remaining player options for adrenal axis pathway
- Add additional hormone pathways, to help users study
  - Growth hormone axis, Insulin pathway, Vitamin D pathway, etc.
- Establish consistent window width and button placement
- Optional features:
  - Add images to capture user's attention

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