Intro to Python

Exercise: Creeps

Assignment

The Creeps program starter kit creates several creeps who wander around the screen. If you complete all of the tutorials, you will have a functional game where the user must squish the creeps by repeatedly clicking them with the mouse.

Of course, if you use your imagination and creativity, you might create an entirely different program from this starter kit.

Here are some tutorials to get you started.

- Quit/Pause/Restart
- Tiled Background
- Playing Field
- Click on Creeps and Health
- Die and Explode
- Game Status Display
- Game Over Message
- Background Music
- Sound Effects

New tutorials

- Game Timer
- Variable Damage

Ideas for individual extra add-ons

- Change the number of creeps running around the playing field
- Add your own images for the creeps
- Change the background colors and the background tiles
- Make the creeps bounce off of one another
- Add a clock to see how quickly you can kill all the creeps
- Make more creeps appear if you don’t kill them all within a specific time limit
- Keep track of the fastest times to beat the game
- Add a countdown and see if you can kill the keeps before it reaches 0
- Add a difficulty menu - more creeps, more speed, less time, etc.
- Make the different creeps have different amounts of health
- Add a “good” creep, and try to defend it from being hit by the “bad” creeps
- Add additional sound affects to the game
- Add additional levels to the game
- Add additional animations within the game

Download

- Creeps

Setup

You’ll need Python and PyGame installed on your system to run and change the game. Follow these instructions to do the setup.

- Get Python 2.7.x, the latest version of 2.7, 32-bit version. (We know what we’re talking about. Don’t get a 3.x version of Python. Don’t get a 64-bit version of Python, even if your operating system is 64-bit, still get a 32-bit version.)

- Get the 32-bit version of PyGame for Python 2.7. Choose based on your operating system version from the list available.

Get Python first, and apply the installer. Get PyGame second, and apply the installer. Afterwards, try to launch the
starter kit by running `main.py`. This should test that your installation is working correctly.