Overview: Our team desires to find sleek, clean solutions to the current lack of drawn houses. We want to develop reusable functions that can even be used to make other structures, such as office buildings, or even forests.

This solution employs the turtle library in python to draw a house with doors, windows, garage doors, and even trees. A variety of subroutines were defined, allowing for editing by the user.

Background: We will publish an easily reproducible house-image generation. We could also draw the house by hand, but that is much less reliable/reproducible.

Goals: Create a simple house using the turtle library

Non-goals: Drawing any other structures

Future goals: Find ways to adapt this drawing to other structures

Detailed design: User needs to understand very little about python beyond running code. If they wish to edit the drawing, they need functions which are easy to understand. This is highly secure, private code.

Third Party dependencies: python, turtle library.

Work estimates: 3 hrs

Alternative approaches: We could have used R turtle library, other drawing software, and draw by hand

Related work: DALL-E