

## Running the code:

1. If you are using VS Code, you can use the 'live server' plugin.  
[ <https://www.freecodecamp.org/news/vscode-live-server-auto-refresh-browser/> ]
2. If you have Python installed locally:
  - a. If Python version 3.X is available: `python3 -m http.server`
  - b. If Python version 2.X is available : `python -m SimpleHTTPServer`
3. If you have a node setup, you can do :
  - a. `npm install --global http-server`
  - b. `Http-server`

## Using the Tangram app:

1. There are 2 canvases that will be visible. The left canvas won't change during the whole session. The user can use only the right canvas (usable canvas).
2. Users can change the mode by pressing the "m" key. Pressing "m" mode 3 takes us back to mode 0. There is a total of 4 modes. :
  - a. **Mode 0:**
    - i. This is the mode with which the app starts. The shapes used to create the figure in the left canvas, are provided to the user in a randomly arranged manner in the usable canvas.
  - b. **Mode 1:**
    - i. In this mode, the user can translate, rotate and scale individual shapes provided in mode 0.
    - ii. Press the up-arrow, down-arrow, right arrow, and left arrow to translate a shape up, down, right, and left respectively.
    - iii. Press "(" and ")" to rotate clockwise and anticlockwise respectively.
    - iv. Press "+" and "-" to scale up and down respectively.
    - v. The user can thus make a new figure using the given shapes.

c. **Mode 2:**

- i. In this mode, the user can translate, rotate and scale the overall figure created in mode 1.
- ii. Press the up-arrow, down-arrow, right arrow, and left arrow to translate the figure up, down, right, and left respectively.
- iii. Press "(" and ")" to rotate clockwise and anticlockwise respectively.
- iv. Press "+" and "-" to scale up and down respectively.

d. **Mode 3:**

- i. In this mode, the usable canvas is cleared and hence is set ready for a new round of going through different modes again.