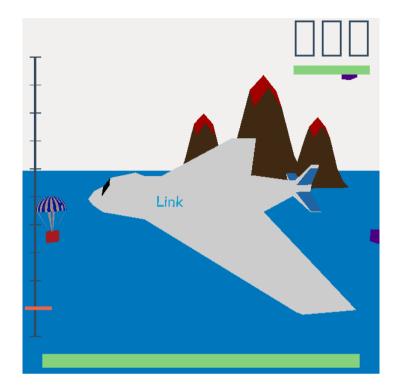
3D Fighter Jet Plane Game

You are Link, a fighter plane and your aim is to get the maximum number of points and navigate through checkpoints.



Requirements:

The following will need to be installed:

- GLEW
- GLFW3
- GLM
- Cmake

Fedora

sudo pkgconf-pkg-config dnf install glew-devel glfw-devel glmdevel cmake pkgconf

Ubuntu

sudo apt install libglew-dev libglfw3-dev libglm-dev cmake pkgconfig

Mac

brew install glew glfw glm cmake pkg-config

Running the game:

- \$ mkdir build-
- \$ cd build
- \$ cmake ..
- \$ make all
- \$./game

Features and Controls:

- 1. The plane can move using the following controls:
 - SPACEBAR to accelerate forward
 - W to move up
 - S to move down
 - A to tilt left
 - D to tilt right
 - Q to turn left
 - E to turn right
 - Keys 1 to 5 for different views (discussed in the **Views** section)
 - Left click to shoot missiles (only one can be shot at a time)
 - Right click to drop bombs (only one can be shot at a time)

2. Dashboard

- The bar at the bottom repesents the fuel bar
- The bar to the left represents the altitude of the plane
- The number display on the top right corner denotes the speed of the plane
- The bar below the speed denotes your health
- A crosshair target is present at the center of the screen in front view

3. Ocean

Below you will be an ocean – falling in it will cause instant death.

4. Checkpoints

The checkpoint is indicated by a red arrow pointing to the it below. Your task is to navigate to that checkpoint and destroy the enemy cannon there using missiles and bombs. Destroying it will disappear the checkpoint, a new one will appear at another point and you will gain 50 points. Be careful not to get hit by enemy cannon balls, or it will reduce your health.

5. Smoke rings

Passing through the smoke ring will result in 10 points.

6. Fuel ups

Collecting fuel ups will completely refuel your plane.

7. Enemy parachutes

Enemy parachutes will be falling around you and contact with them at any point leads to loss of health. Shooting and destroying one will lead to a gain of 20 points.

8. Volcanos

There are volcanos present – flying anywhere close to them or flying at any height above them will lead to death.

Views

There are five different views:

- 1. Front view: Press 1 to enable cockpit view.
- 2. Tower view: Press 2 to enable view of the plane as seen by a tower.
- 3. Follow cam view: Press 3 to enable
- 4. Top view: Press 4 to enable.
- 5. Helicopter view: Press 5 to enable camera movement using the mouse along with zooming using scroll.