

Controls and Functions

Yoke (Steering Control)

- **Pitch Control:** Push the yoke forward to descend, pull it back to ascend.
- **Roll Control:** Turn the yoke left or right to bank the aircraft accordingly.

Pedals (Tail Control)

- **Yaw Control:** Press the left pedal to turn the aircraft left, and the right pedal to turn right.
- **Braking:** Applying pressure to both pedals simultaneously engages the brakes.

Trim Wheel (Flap Adjustment)

- Use the trim wheel for fine-tuning the aircraft's pitch stability.
- Adjusting the trim reduces the need for constant yoke input.

Flap Switch (Greater Flap Adjustment)

- The flap switch allows for more significant flap adjustments.
- Lower flaps for increased lift at lower speeds (useful for takeoff and landing).
- Raise flaps for higher speed and efficiency during cruise.

Miscellaneous Buttons

- **Lights:** Toggle various aircraft lights (e.g., navigation, landing, beacon).
- **Autopilot (if applicable):** Engage or disengage autopilot mode.
- **Engine Controls:** Start, stop, and adjust engine power.
- **Landing Gear:** Deploy or retract landing gear where applicable.

Startup and Shutdown Guide

1. **Pre-Flight Checks:** Ensure all controls are functioning properly before takeoff.
2. **Takeoff:** Gradually increase throttle, use the yoke to lift off smoothly.
3. **In-Flight Adjustments:** Utilize yoke, pedals, trim wheel, and flaps as necessary.
4. **Landing:** Reduce speed, extend flaps, and gently lower the aircraft onto the runway.
5. **Post-Flight:** Shut down the engines and complete the necessary procedures.

Safety Precautions

- Always operate the simulator in a stable environment.
- Avoid excessive force on controls to prevent wear and damage.
- Avoid holding on to simulator frame while entering and exiting.

Troubleshooting

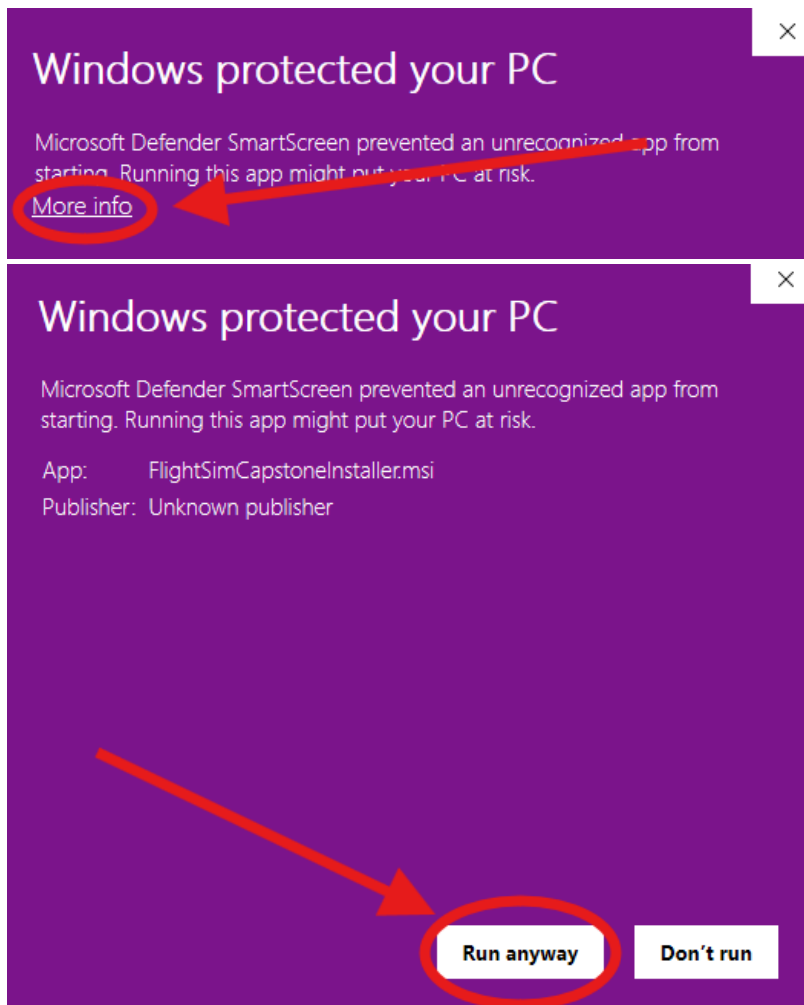
- **Unresponsive Controls:** Ensure proper calibration and connectivity.
- **Difficulty in Stability:** Adjust trim settings and check flap positions.

Software Install

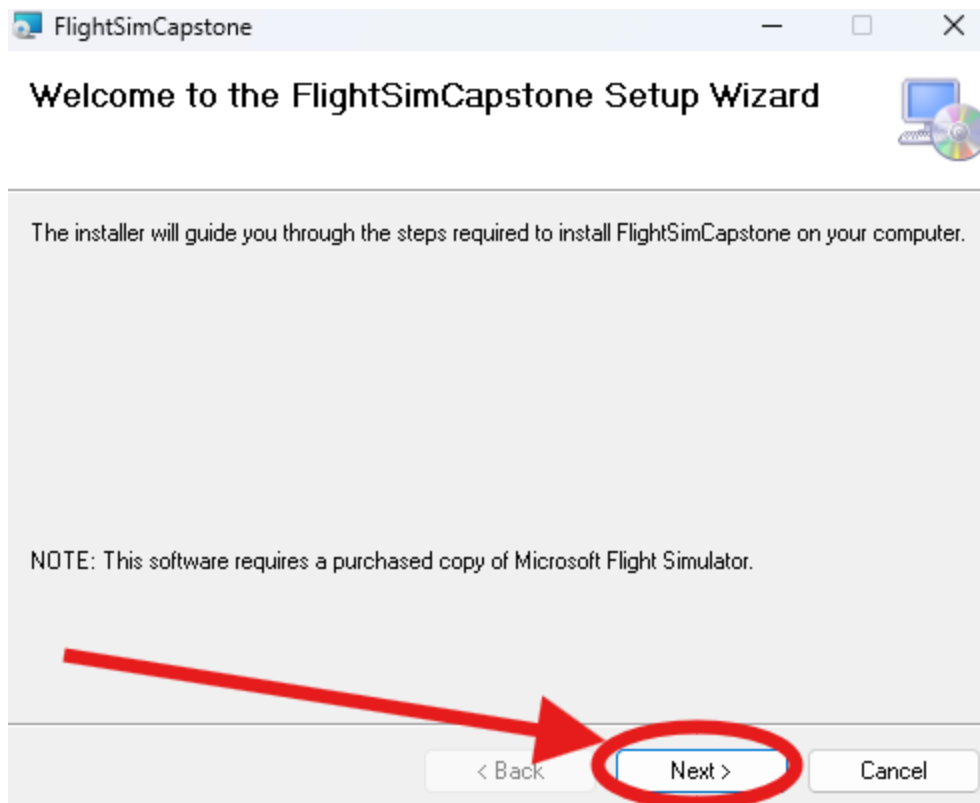
The current software build can be downloaded from:

<https://github.com/TJx5x3/FlightSimCapstone/raw/refs/heads/master/FlightSimCapstoneInstaller.msi>

1. Download the current software build from
<https://github.com/TJx5x3/FlightSimCapstone/raw/refs/heads/master/FlightSimCapstoneInstaller.msi>
2. If a prompt appears saying “Windows protected your PC”, select “More Info”,
“Run Anyways”

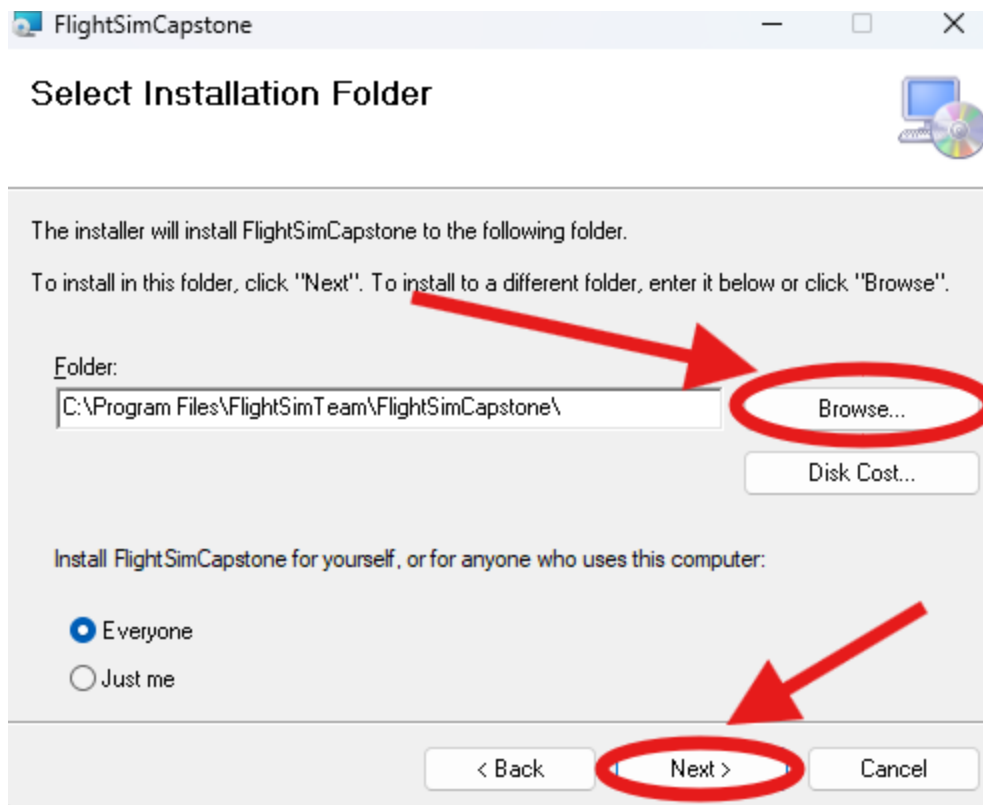


3. This will launch the Flight Simulator Setup Wizard. Select “Next”

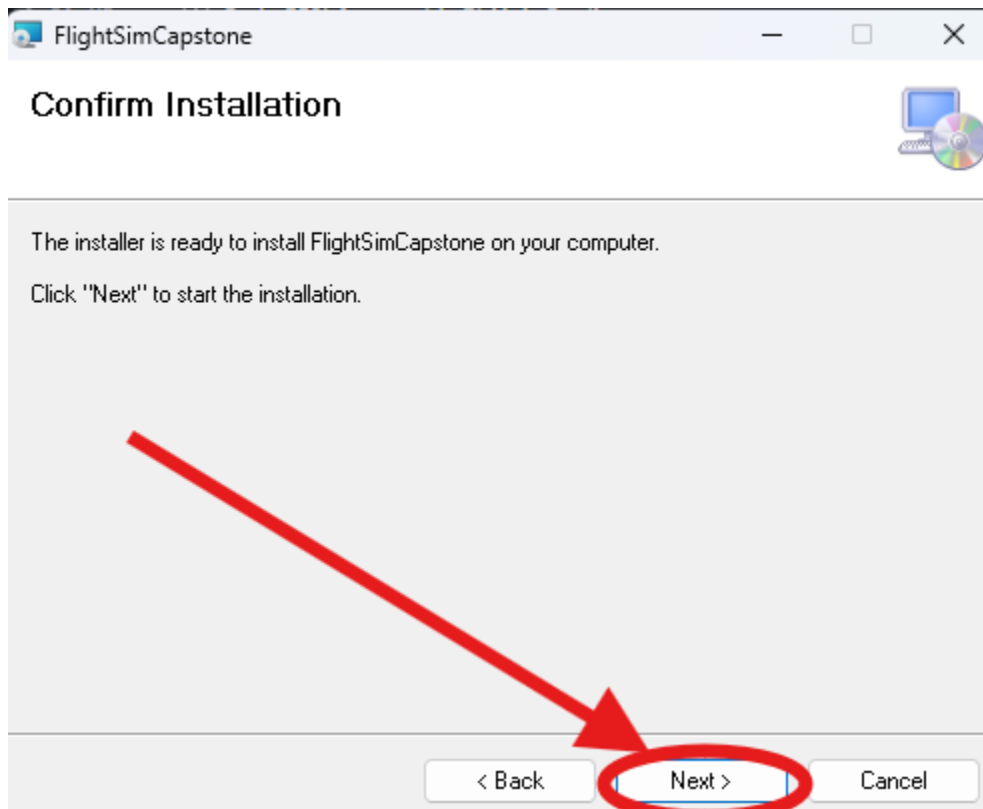


4. The default install path will be at C:\Program Files\FlightSimTeam\FlightSimCapstone\

The install path can be specified by selecting "Browse". Select "Next to continue.



5. Finally, select next to install the application



6. The application can be launched using the desktop shortcut, or by searching “FlightSimCapstone” in the start menu.

