Track 1

OpenSpace 101 Workshop: Getting Started

With Micah Acinapura and Andreas Engberg

SESSION OVERVIEW

Agenda

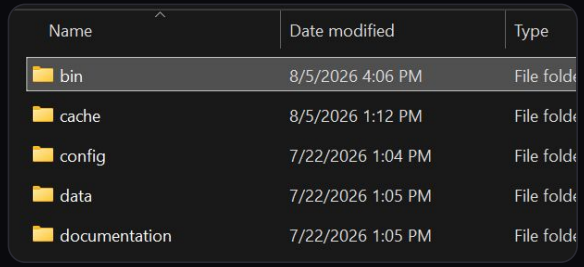
1. Running OpenSpace
2. GUI / Dashboard Introduction
3. Navigation
4. Nodes, Properties, and Globe Layers
5. Time / Time Control
6. Actions / Buttons
7. Documentation Site

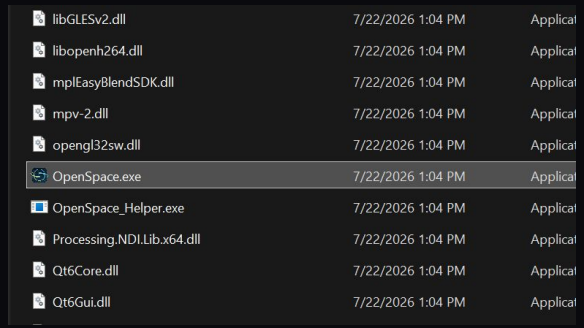
GETTING STARTED

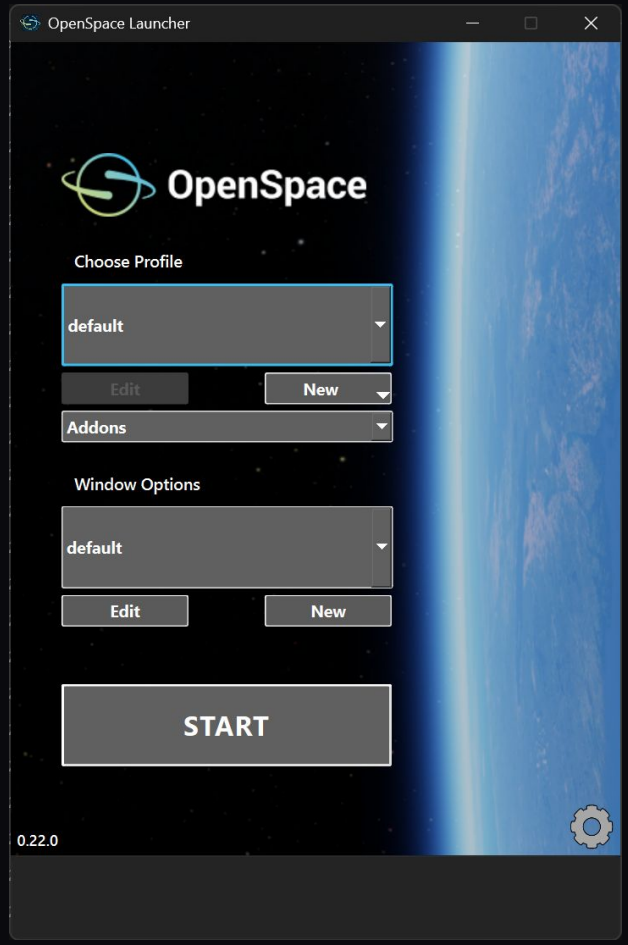
Running OpenSpace

- Find the bin folder in your OpenSpace download

- Open the OpenSpace.exe file to open the launcher

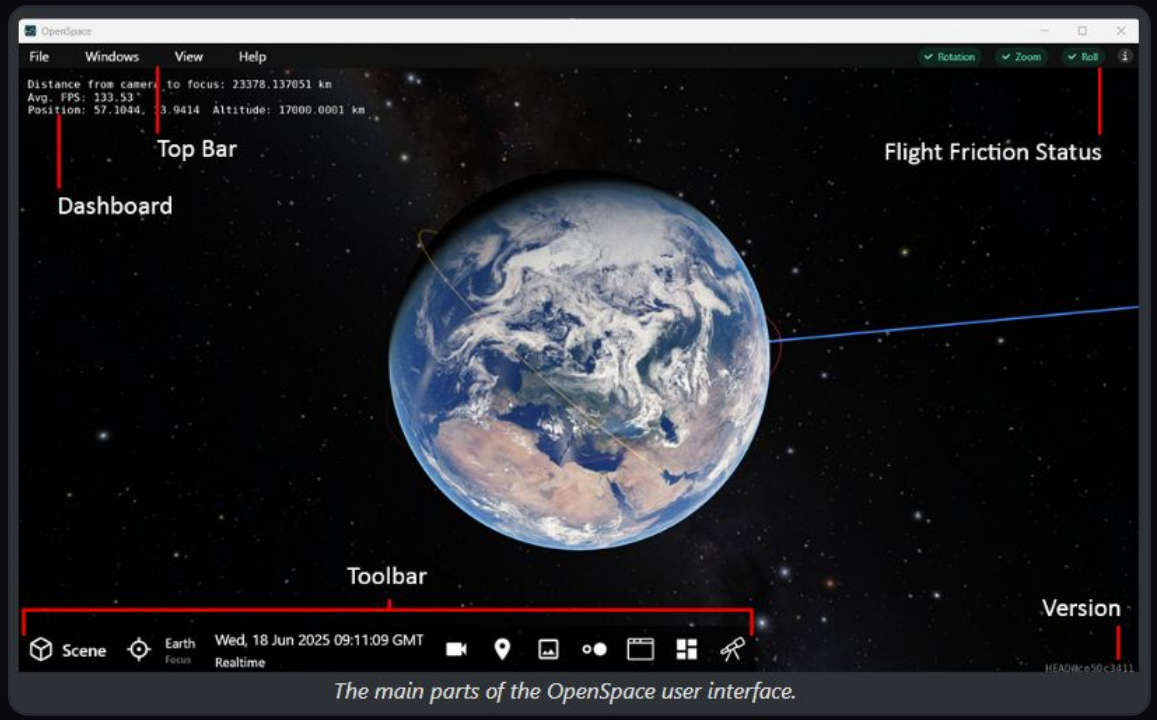






GUI / Dashboard Introduction

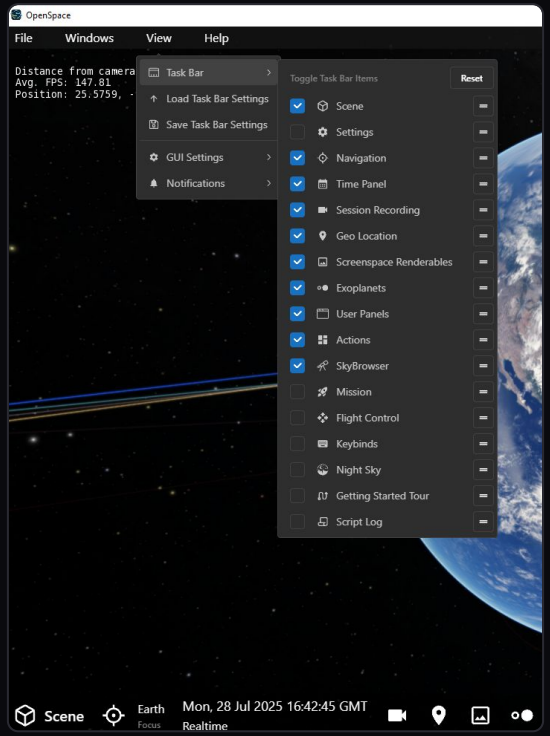
- F1 toggles the GUI on/off
- Shift+F1 toggles the Dashboard on/off



The main parts of the OpenSpace user interface.

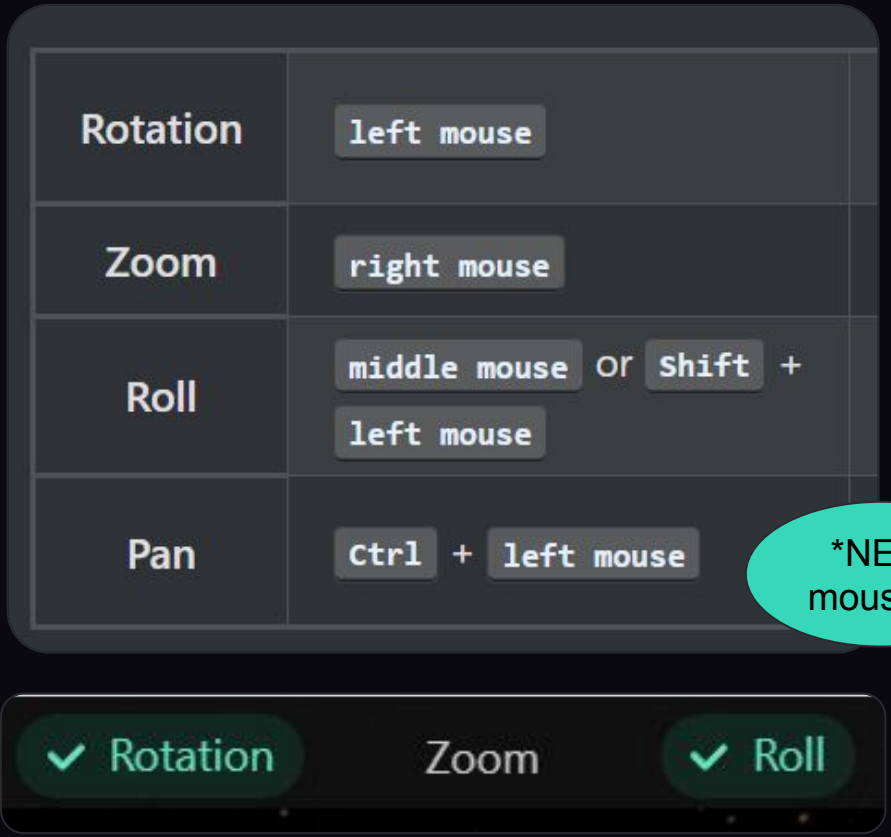
GUI / Dashboard Introduction (cont)

- Panels can be free floating or docked
- Drag a panel onto another to dock them together
- More panels are available, for specific things. In time, many more panels will be built.



Customize Task Bar under View dropdown.

Panels can be expanded and tabbed.



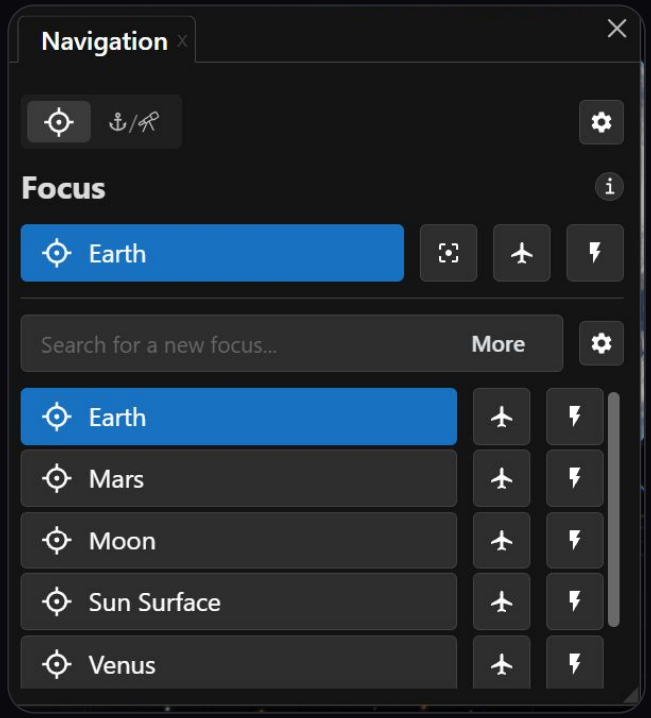
Navigation

- Rotation orbits or moves across surface of a planet/object.
- Zoom to get close/far.
- Roll to spin planet rightside up.
- Pan to move the planet below your feet for landing.

  F, Shift+F, Ctrl+F for friction toggles.
- Pan while zooming into a planet for a smooth landing.

Navigation (cont)

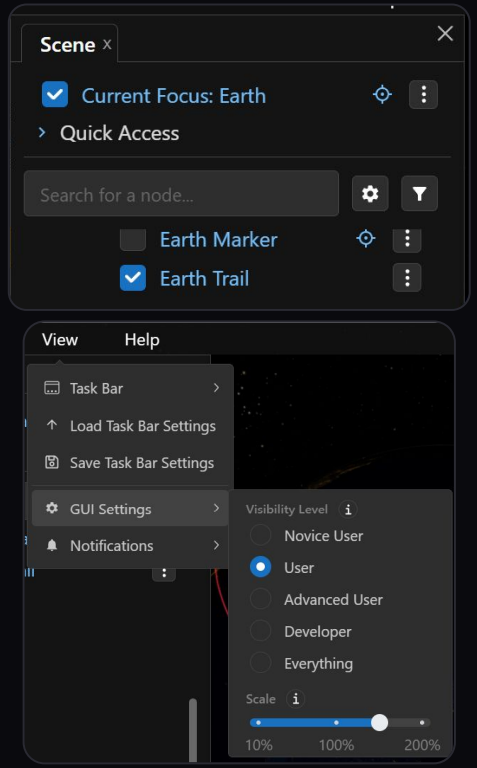
- Click item name to focus/look at it then zoom there yourself.
- Airplane will fly you there.
- Lightning bolt jumps to location with fade to black.
- Search for things not in list (list set by profile).



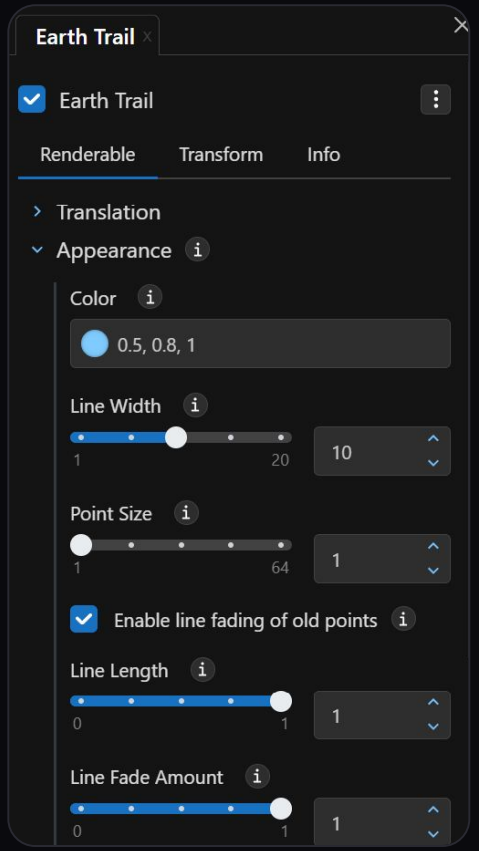
Navigation menu

Nodes, Properties, and Globe Layers

- Checkbox turns nodes on or off.
- Click or pop out to adjust properties.
- Different types of nodes have different properties.
- Some properties are hidden within visibility level.
- Turning on a globe layer is actually a property of the globe.
- “i” button provides info on the property (aka description of what it does)



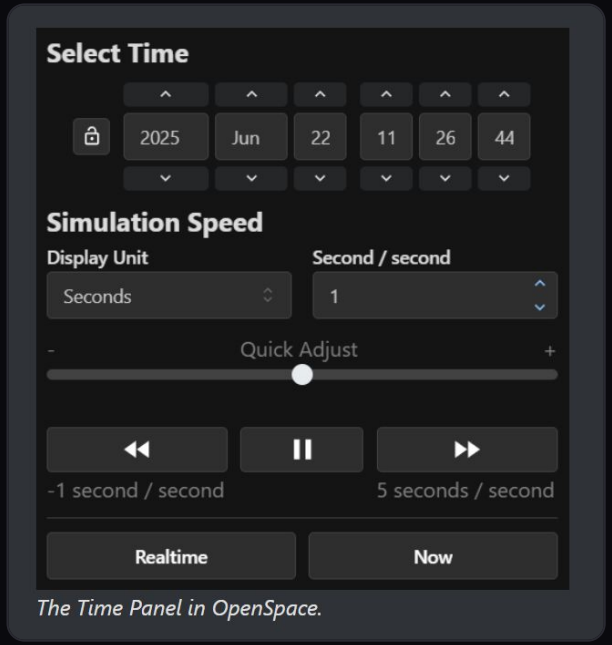
Adjust Visibility Level under View dropdown



Time / Time control

- Changing simulation time/date
- Adjusting rate of time
- **Interpolate vs instant change**
- Space bar for pause
- Arrows for faster/slower
- Number keys for specific time rates

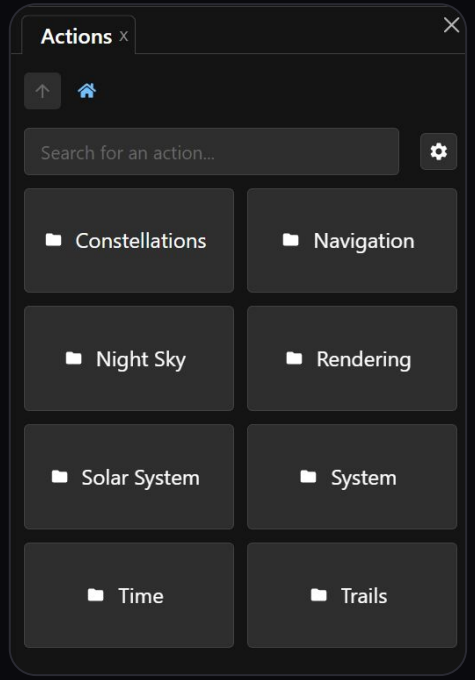
Shortcut Key	Increment (sec)	Increment (relatable units)
1	1.0	1 second/second
2	5.0	5 seconds/second
3	30.0	30 seconds/second
4	60.0	1 minute/second
5	300.0	5 minutes/second
6	1800.0	30 minutes/second
7	3600.0	1 hour/second
8	43200.0	12 hours/second
9	86400.0	1 day/second
0	604800.0	1 week/second



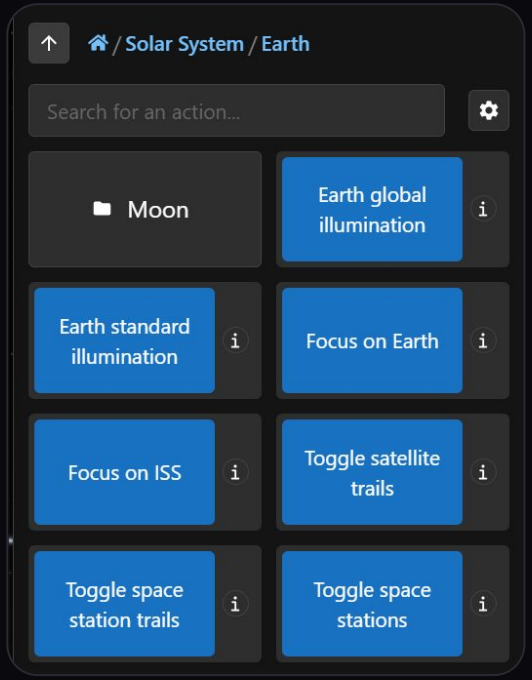
The Time Panel in OpenSpace.

Actions / Buttons

- May do 1 or 1000 things
- Automatically made into buttons in the Actions Panel
- Folders contain more folders or buttons
- Can be assigned to keys
- Profiles can add more actions



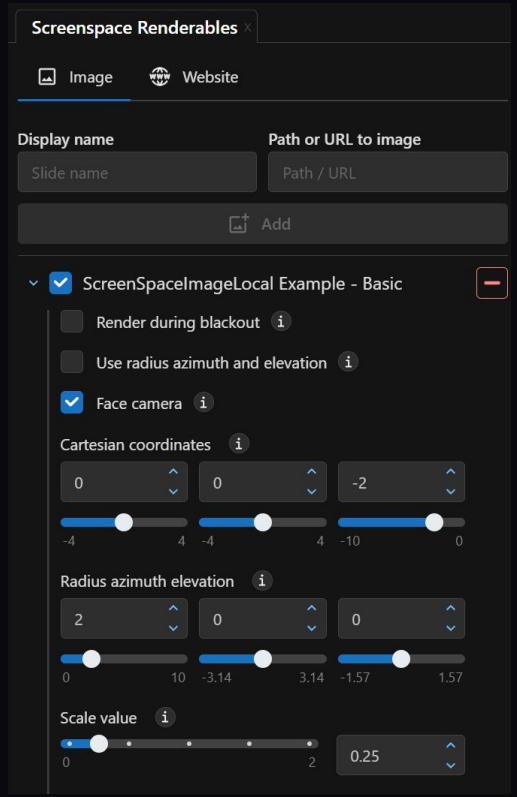
Folders in Actions Panel



Buttons for Earth in Actions Panel

Screenspace Renderables

- Show “slides” aka 2D content
- Can be image, video or web content
- Lives in the coordinate system of your “Screen” (computer monitor or dome)
- Turn on/off and position
- Different position method for dome or computer screen
- data/assets/examples/slidedeck.asset if you want to show many



RESOURCE

Documentation Site

- Recently overhauled pages
  - Getting Started
  - Using OpenSpace
  - Content/Milky Way
  - Content/Universe
  - Reference
- To be updated
  - Content/Solar System/***
  - Profiles
  - Building Content

