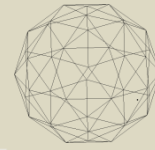


# Basic 3D animation using Blender

SKANI101x



## Customizing view ports (Part - I)

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IIT Bombay

# Outline

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- Adding new objects
- Customizing view ports
  - Resizing
  - Splitting



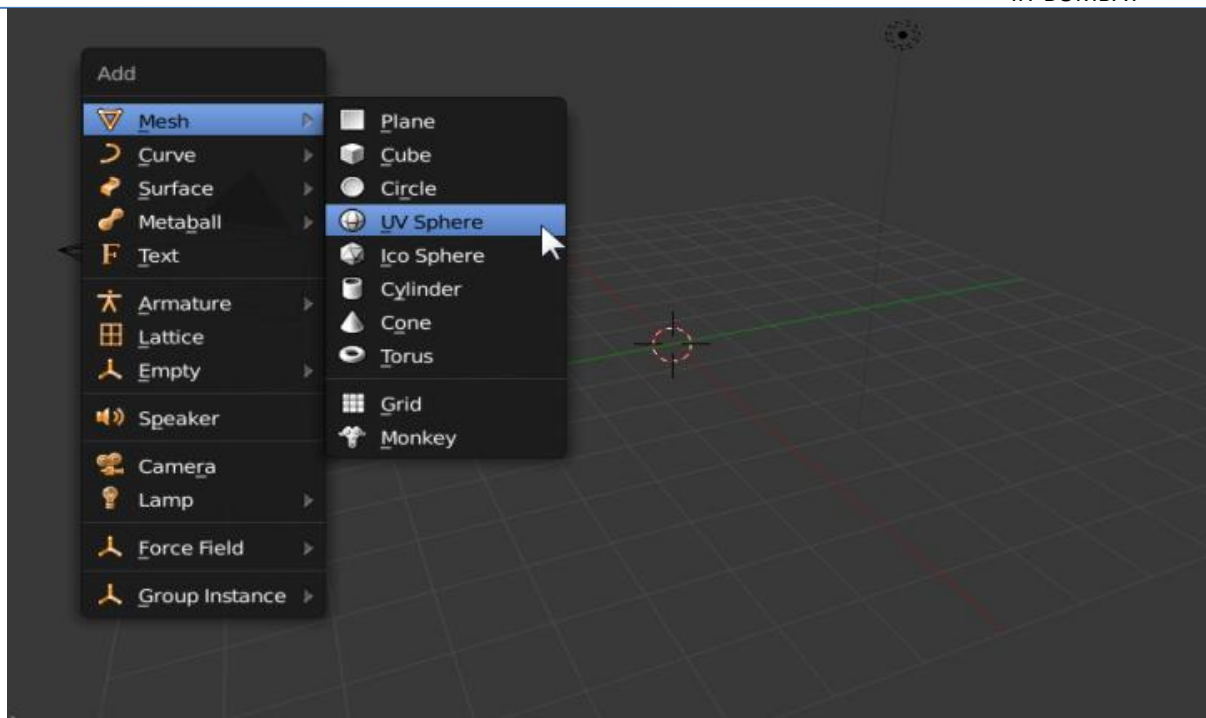
- Position of the 3D cursor determines the position of the new object.  
A new object is added at the position of 3D cursor.
- Use shortcut: Shift + C, to get 3D cursor back to the origin (center of the grid).

# Adding new object using keyboard



**Shift + A**

Select from the list to add  
new object

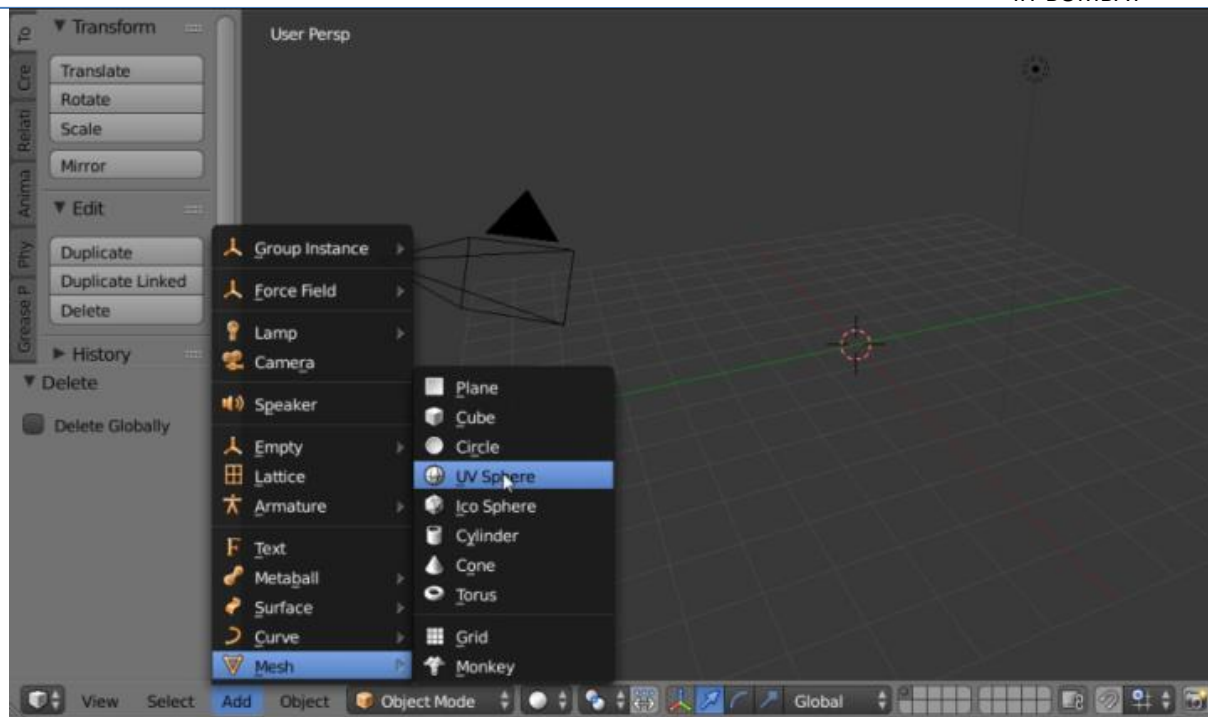


# Adding new object using mouse

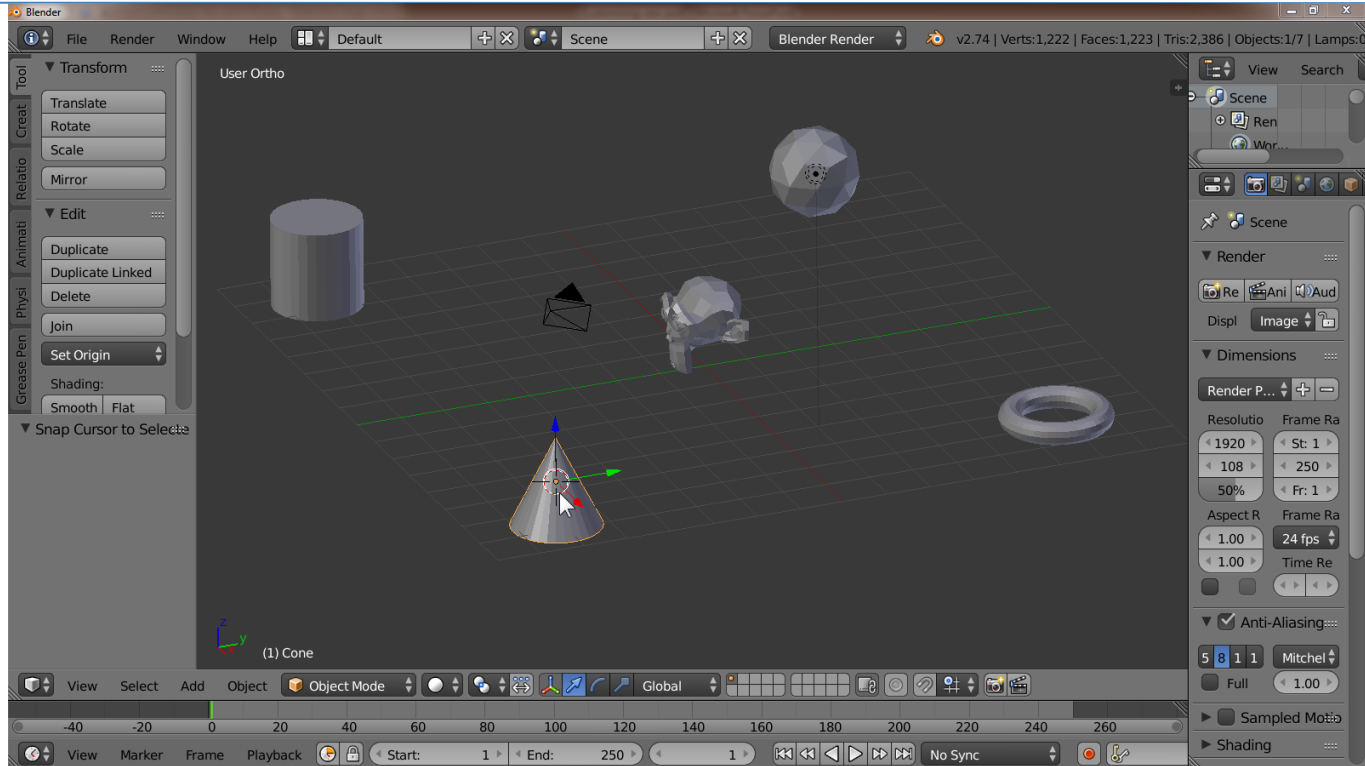


Add > Mesh

Select from the list to add new object



# Adding new object/s

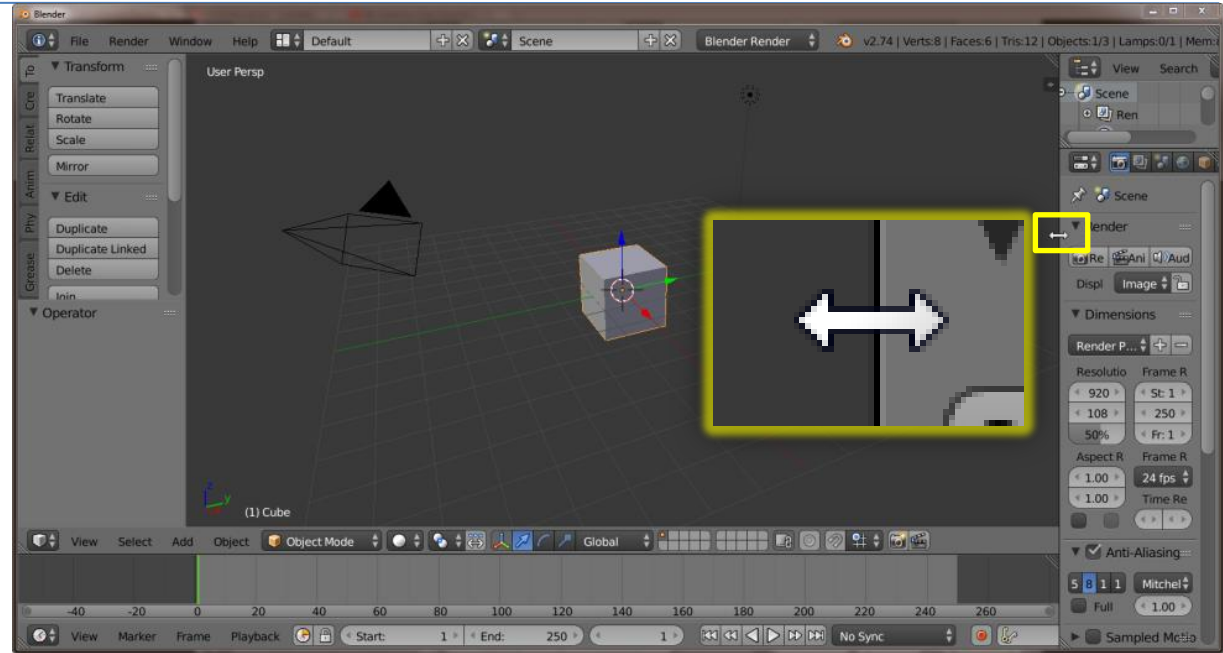


# Customizing view ports

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# Customizing view ports (Resizing)

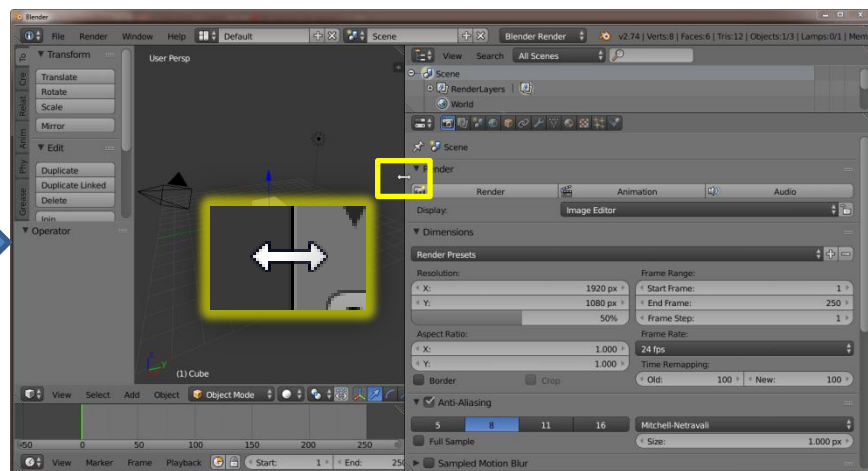
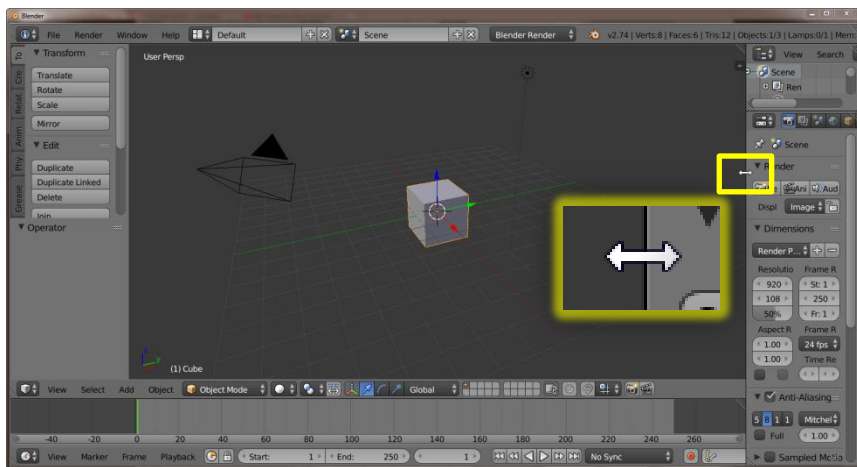
- Hover mouse cursor on the vertical edge of the window
- Mouse cursor will change to a double headed arrow





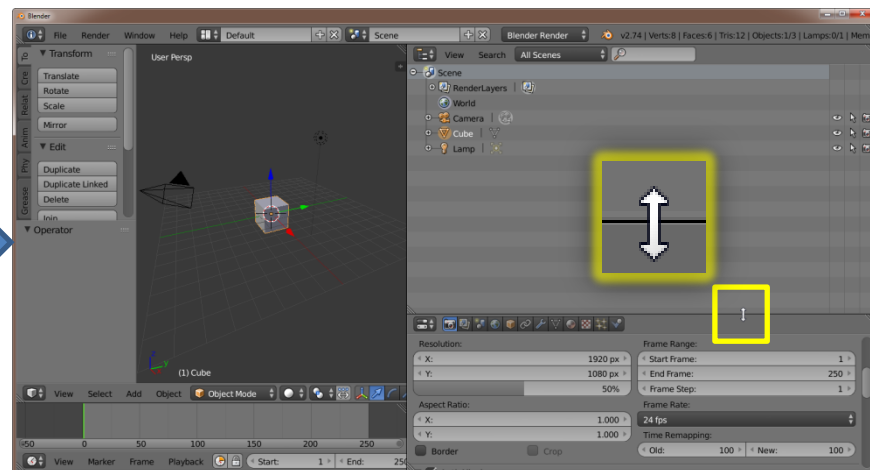
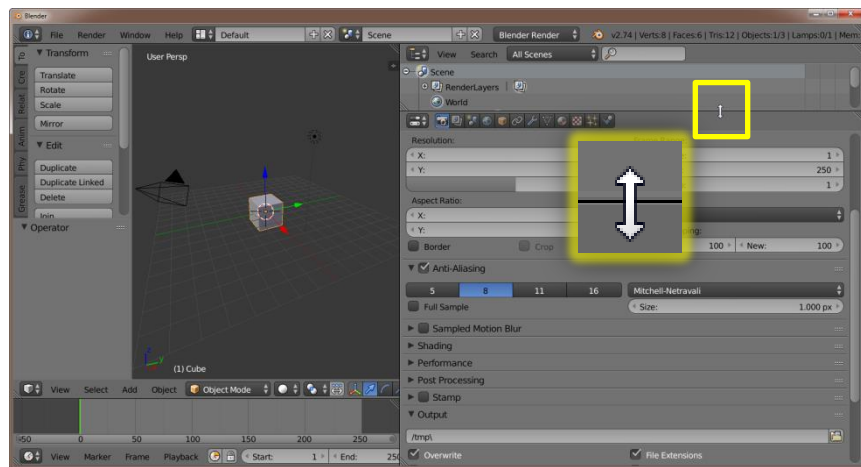
# Resizing view port horizontally

Left click on the vertical edge of the window and drag horizontally to increase/decrease the window size horizontally.



# Resizing view port vertically

Left click on the horizontal edge of the window and drag vertically to increase/decrease the window size vertically.

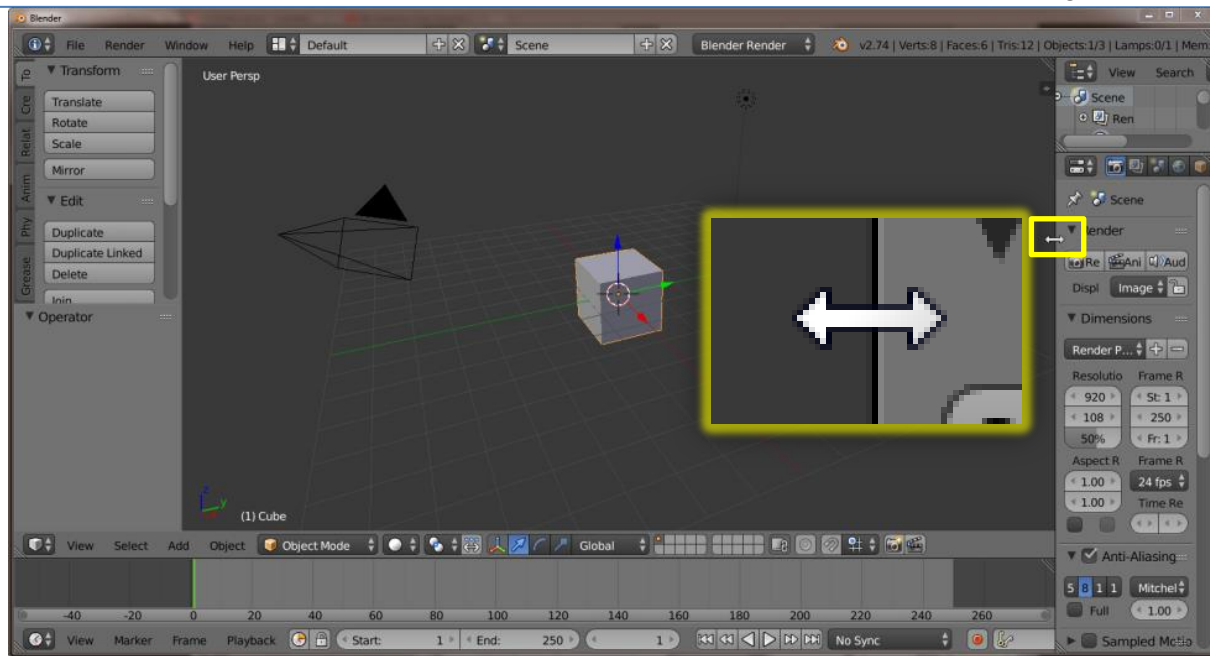


# Splitting view ports

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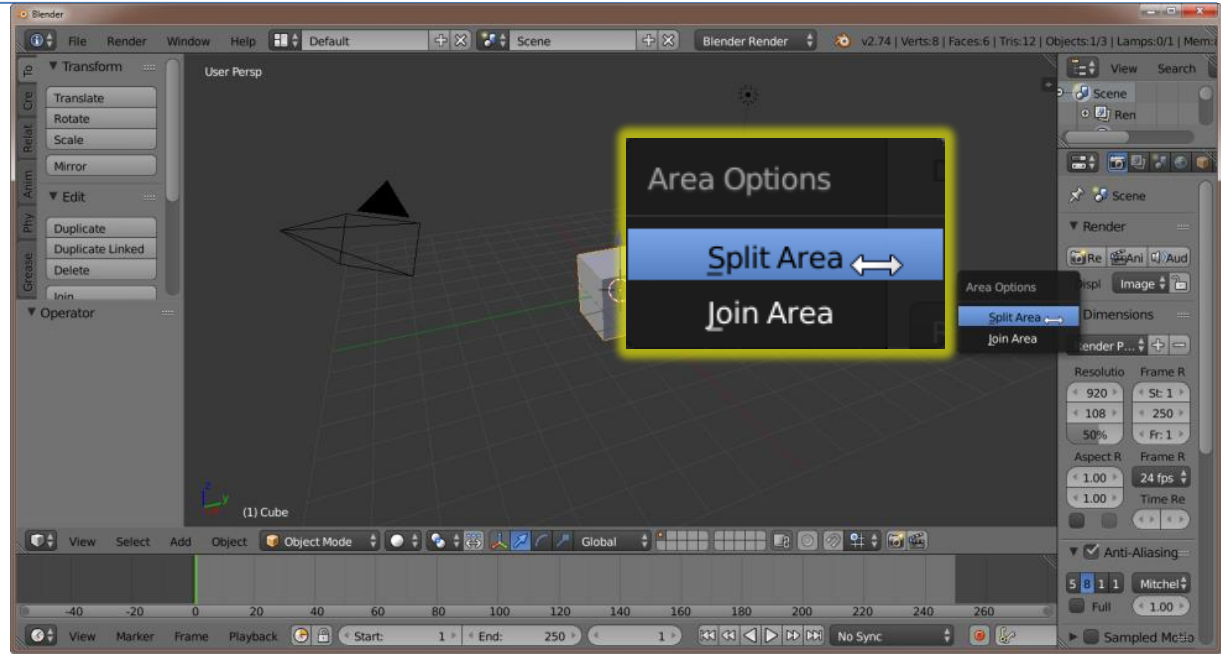
# Splitting view ports – vertically (1)

- Hover mouse cursor on vertical edge of the window
- Mouse cursor will change to a double headed arrow



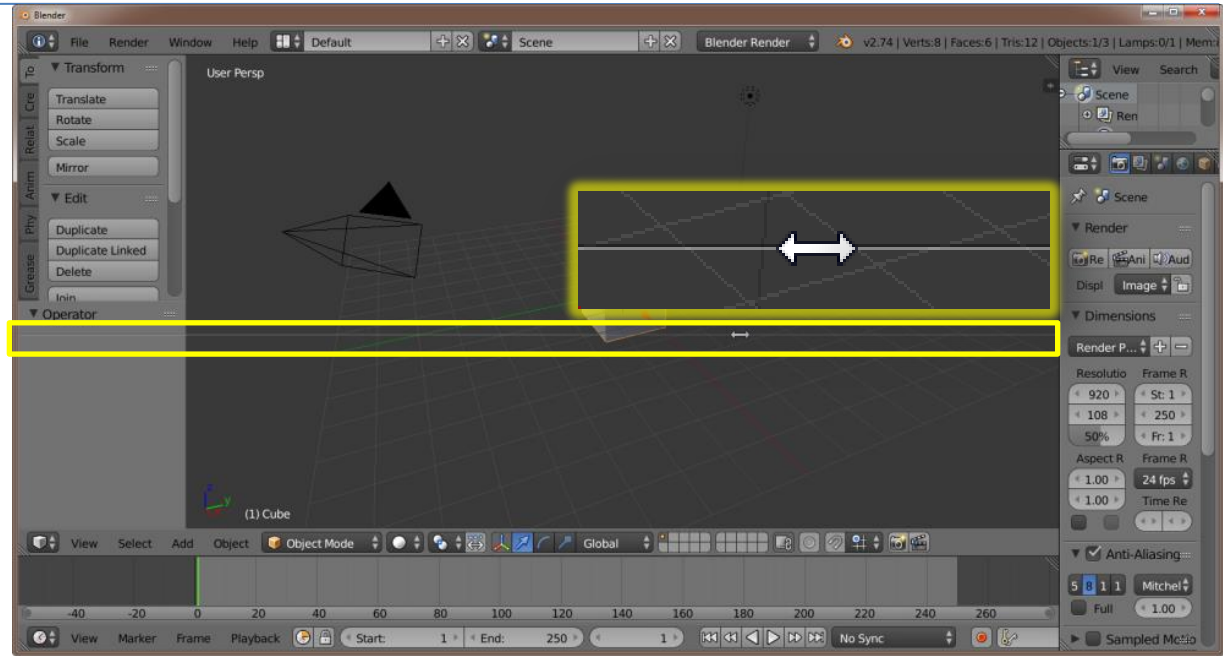
# Splitting view ports – vertically (2)

- Right click on the vertical edge of the window and select 'Split Area' option



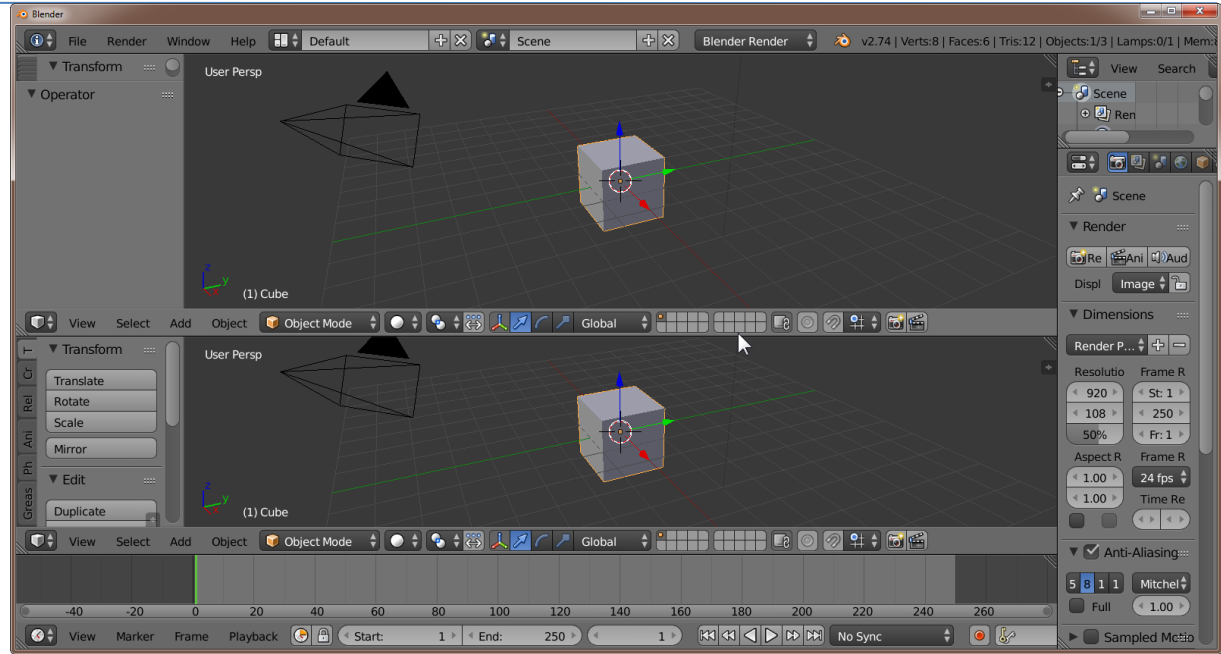
# Splitting view ports – vertically (3)

- Move the faint gray line (which decides the viewport size) which appears in the center horizontally to increase/decrease the window sizes
- To complete the operation: Left click.
- To cancel the operation: Right click OR Press Esc



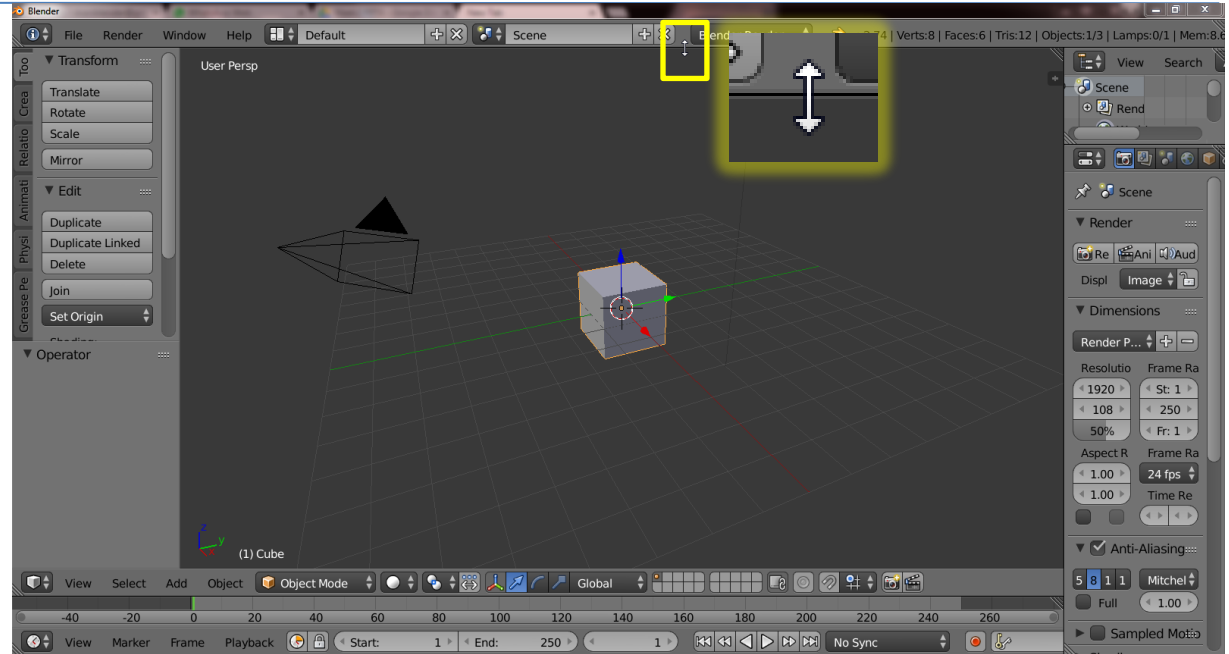
# Splitting view ports – vertically (4)

- Two identical windows are created
- Each new window has its own sets of tools



# Splitting view ports – horizontally (1)

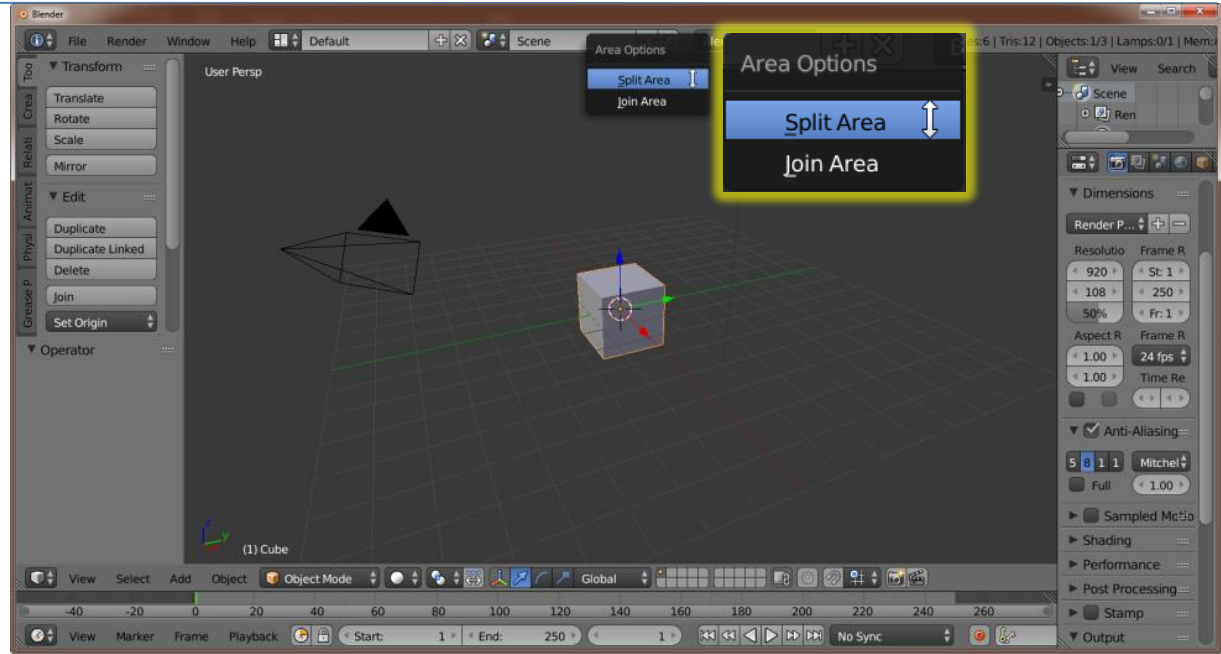
- Hover mouse cursor on horizontal edge of the window
- Mouse cursor will change to a double headed arrow





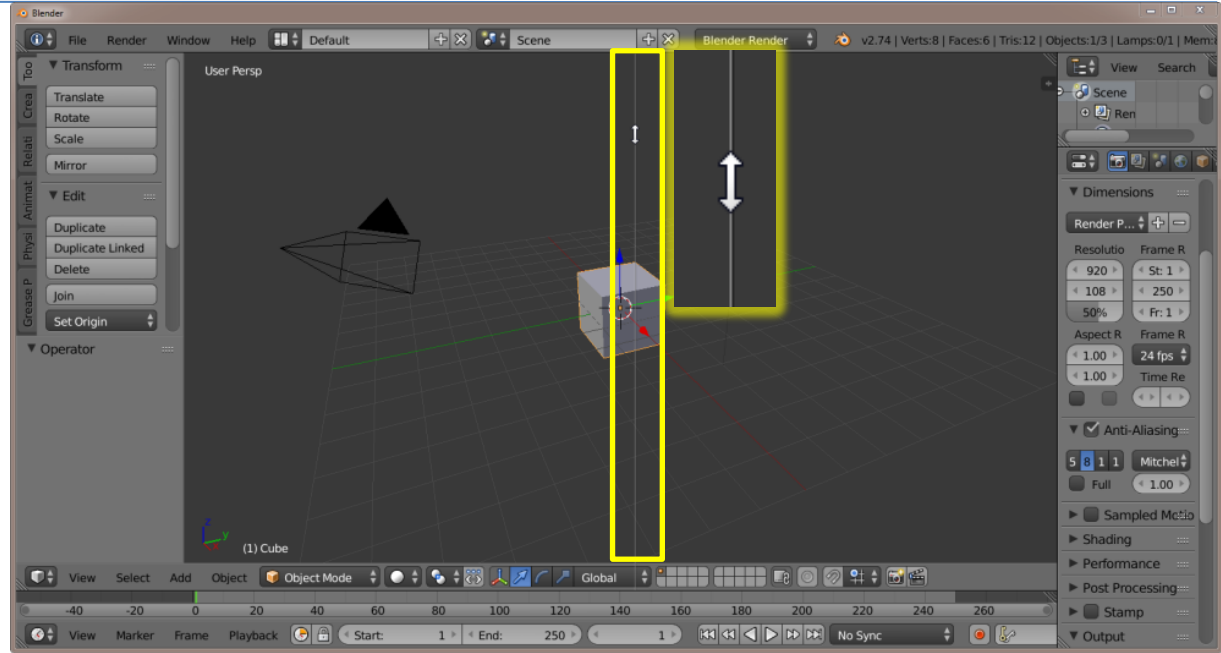
# Splitting view ports – horizontally (2)

- Right click on the vertical edge and select 'Split Area' option



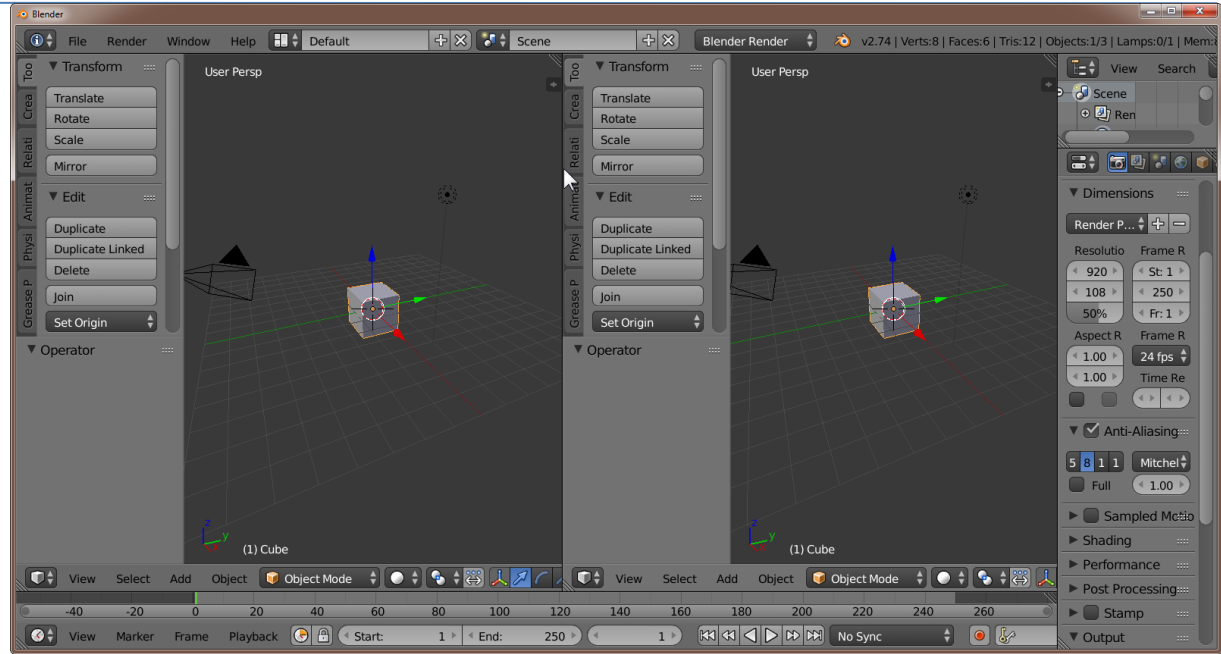
# Splitting view ports – horizontally (3)

- Move the faint gray line (which decides the viewport size) which appears in the center horizontally to increase/decrease the window sizes
- To complete the operation: Left click.
- To cancel the operation: Right click OR Press Esc



# Splitting view ports – horizontally (4)

- Two identical windows are created
- Each new window has its own sets of tools



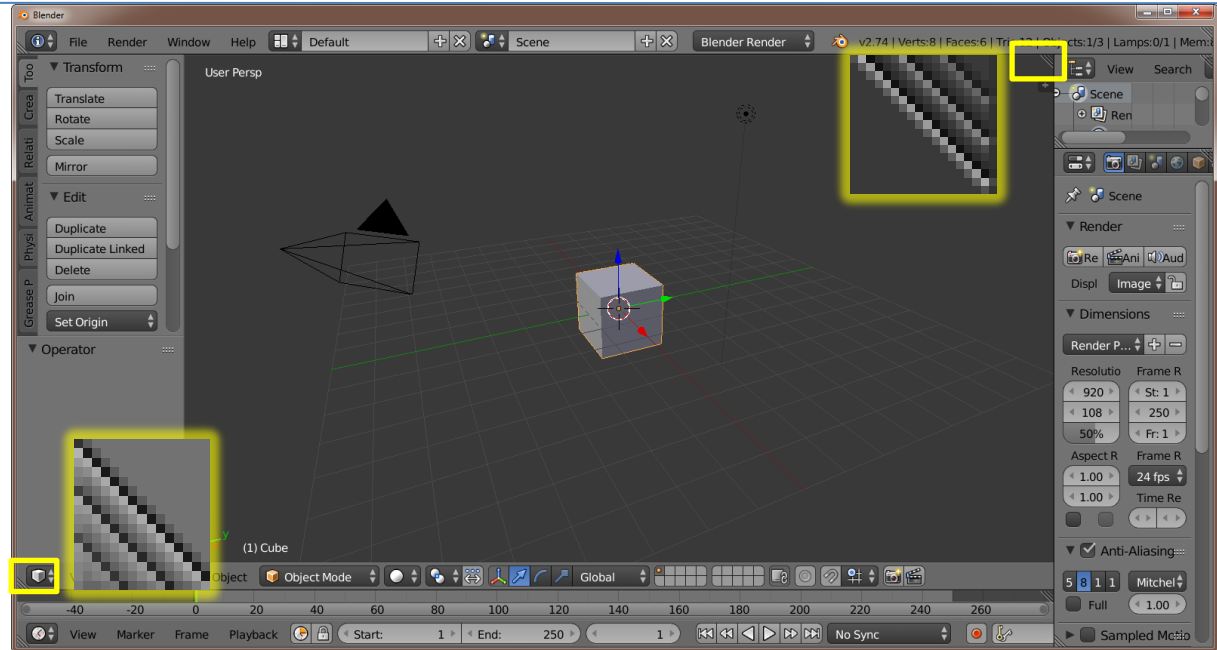
# Splitting and merging windows

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Additional option

# Splitting the window: Mouse action

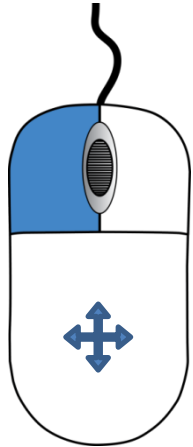
- Use the handle on the top right and bottom left of every window to split the window



# Splitting the window: Mouse action



Mouse pointer turns into a cross when hovered on the handle



Left click and drag the mouse to split/join windows:

- Split the window
  - vertically by dragging mouse vertically away from the edge
  - horizontally by dragging mouse horizontally away from the edge
- Join the adjacent window (getting rid of it and taking over its space)
  - vertically by dragging mouse towards it
  - horizontally by dragging mouse towards it

# Next session

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## Customizing view ports (Part - II)