IPE tutorial

What is ipe?

- An editor for vector graphics
- What you see is what you get
- ♦ Supports Latex
- Directly creates a pdf, hence easy integration
- Programmable/extendable

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- An editor for vector graphics
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IPE is good at

- ⋄ speed
- ♦ snapping
- ⋄ grids
- ♦ layers
- useful tools (Ipelets)

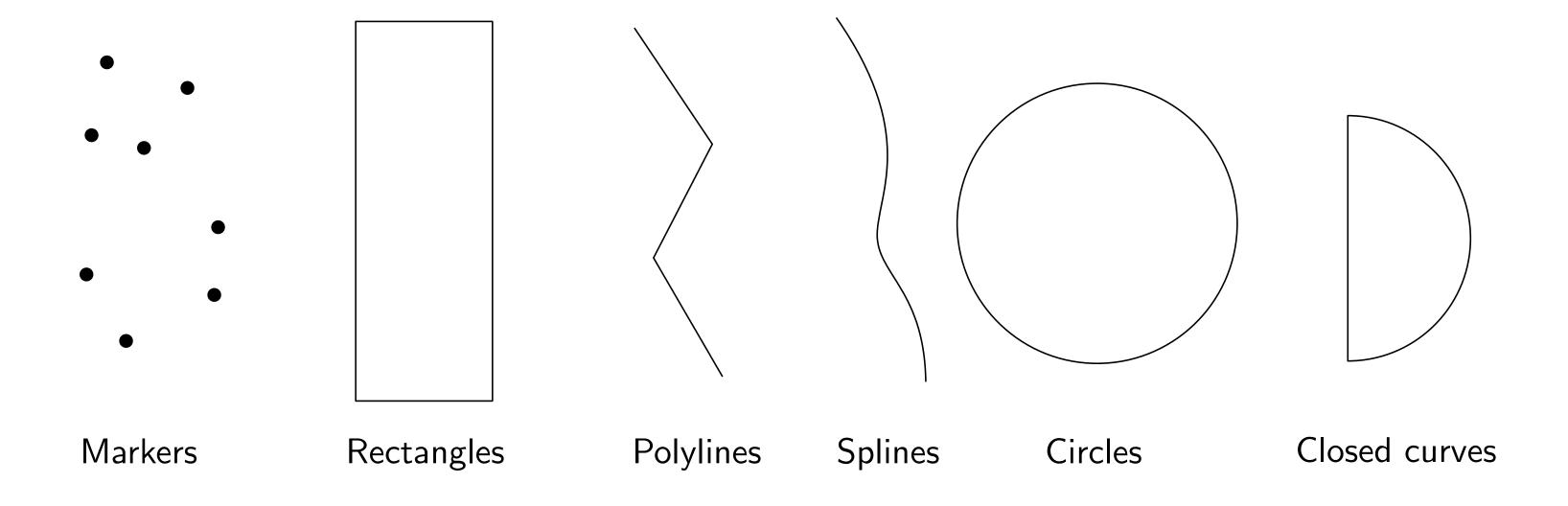
- ♦ Canvas
- ♦ How to control IPE
- Creating things
- ♦ How things look
- ⋄ Mouse right click: Context menu

- ♦ Canvas
- ♦ How to control IPE
- Creating things
- How things look
- Mouse right click: Context menu
- Canvas crops automatically
- ♦ Zoom with Crtl+wheel

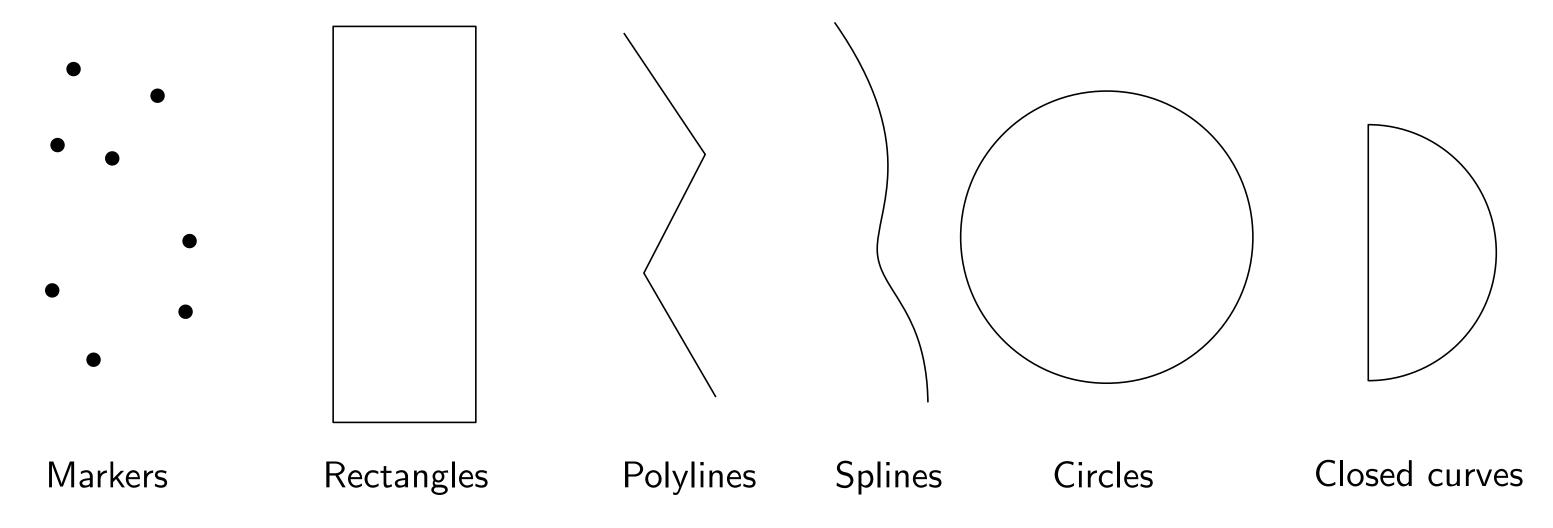
- ♦ Canvas
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- ♦ Save as pdf!
- ♦ You can add to the Latex preamble.

- ♦ Canvas
- ♦ How to control IPE
- Creating things
- ♦ How things look
- Mouse right click: Context menu
- Canvas crops automatically
- ♦ Zoom with Crtl+wheel
- ♦ Save as pdf!
- ♦ You can add to the Latex preamble.
- ♦ Snapping
- ♦ Grid options
- ♦ Pages and views
- Manipulation of objects
- ♦ Texts
- Creation of objects

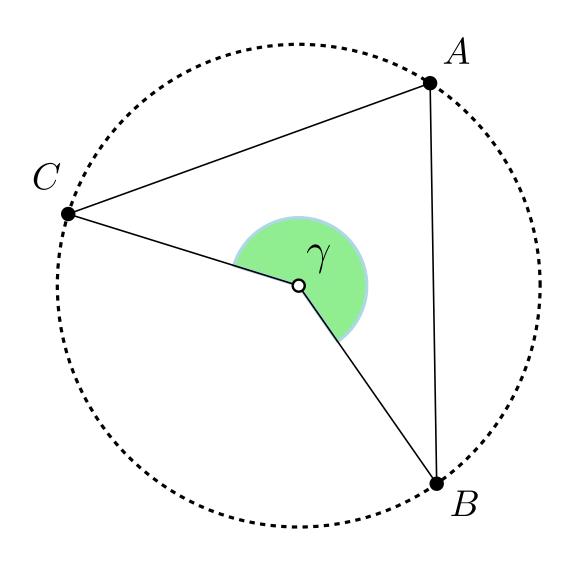
Basic objects



Basic objects



Select ones in the region: Left mouse, top left to bottom right Select ones intersecting the region: Left mouse, bottom right to top left Cycle selection: Space + Left button pressed



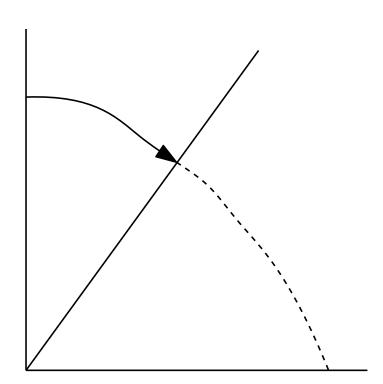
join paths: select multiple and use context menu

CTRL+F/B - send to front/behind in Z-order of objects

Edit mode, paths, groups

[Ctrl+E] In edit mode we can:

- Move vertices/control points
- Add/delete/duplicate control points
- Cut polygons/polylines. We might need to convert ot Bezier segments. We need to "decompose" afterwards!

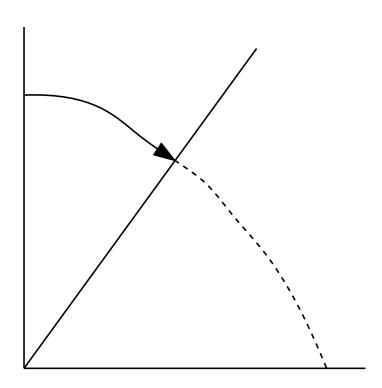


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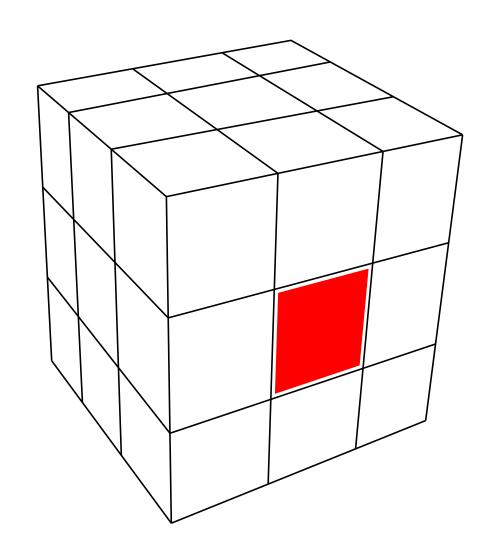
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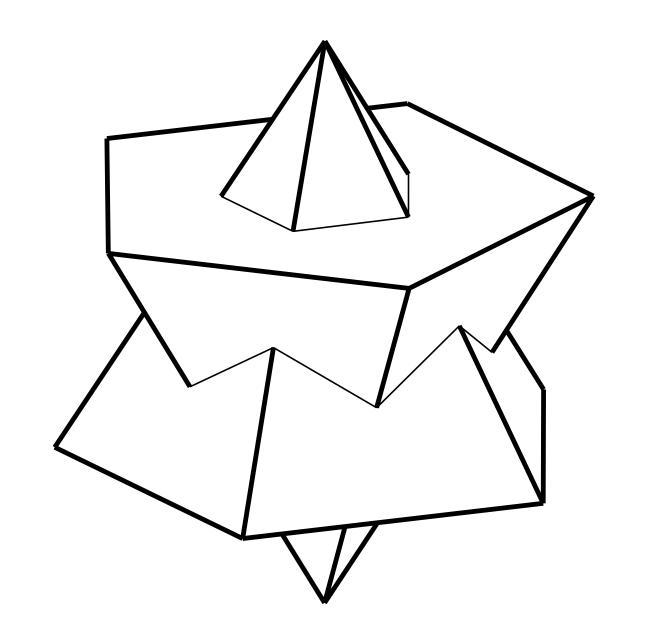
We can Group/Ungroup objectes. Grouped objects can be scaled, translated, rotated, clipped together.

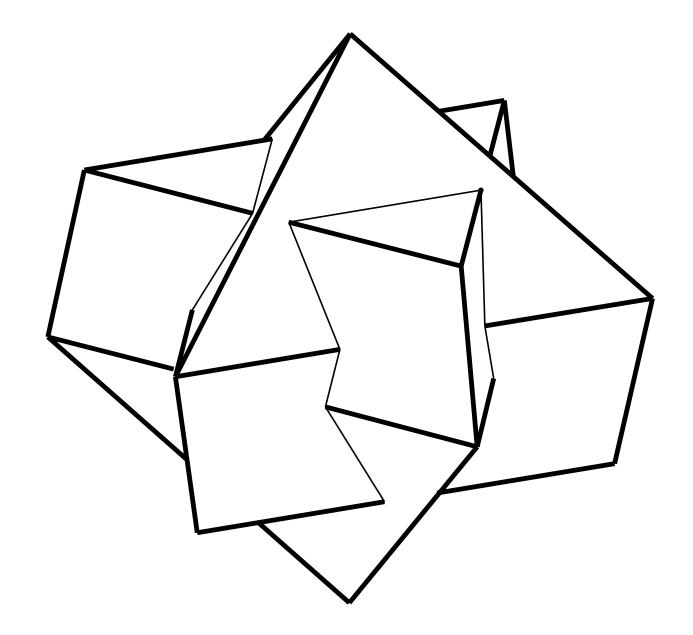


Example 2.

Use an arbitrary image with opacity as a sketch Layers are very useful! They are independent of z-order.

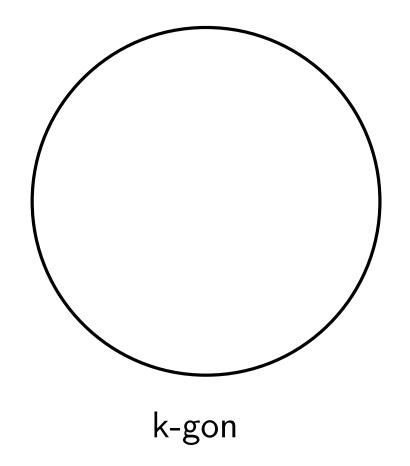


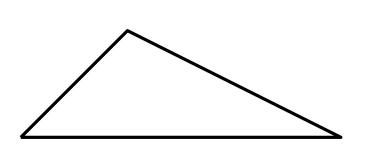




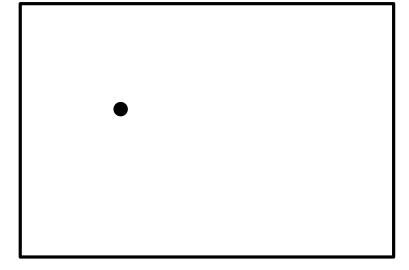
Ipelets

New Ipelets can be creted in Lua.





Mirror/rotate



Moving objects
$$[\mathsf{Ctrl} + 2/4/8/6] \\ [\mathsf{Ctrl} + \mathsf{Alt} + 2/4/8/6]$$

Example 3

