

**DRAWING BY COMPUTER****A Course Of Study (for U3A Mornington)****INKSCAPE 0.92****INTRODUCTION**

Paint programs make **bitmap** images, by colouring computer screen pixels. Editing recolours the pixels. **Inkscape** makes **vector** images. It uses screen coordinates to precisely draw undistorted lines and shapes.

All drawing elements arrange discretely in adjustable stacks, are not overwritten, and are always fully editable.

NOTE: Students need to have good mouse skills, as well as familiarity with using Windows menus and dialogs.

DURATION

One session per week for 6 weeks

Each session 2½ hours with ¼ hour tea break

One tutorial per week

Each tutorial demonstrated by the tutor

Week 0	Preparation	Download Inkscape 0.92 installer. Install Inkscape 0.92 on home computer. Obtain USB flash drive (memory stick) 16GB/32GB.
Week 1	Shapes (Tute 1: Cat Sitting)	Inkscape Window & Shape Tools: Selector, Rectangle, Ellipse, Polygon Tools / Palette, Fill & Stroke / Transform using Move, Scale, Rotate & Flip / Stack Order / Group / Alignment / Union & Difference / Save and Export Files. Homework: Draw a dog sitting.
Week 2	Paths (Tute 2: Cat Stretching)	Pen (Bezier) & Node Editing Tools: Shapes & Paths / Open & Closed Paths / Nodes & Line Segments / Corner (Cusp) Nodes & Smooth Nodes / Add & Delete Nodes / Node Handles / Extending a Path. Homework: Draw a horse galloping.
Week 3	Pattern & Gradient (Tute 3: Still Life)	Pattern & Gradient Fills: Pattern Fill / Transform Patterns using Handles to Move, Scale & Rotate / Pattern to Object & Object to Pattern / Join End-Nodes / Lineal & Radial Gradients / Gradient Stops / Opacity / Filters. Homework: Draw a vase of flowers on a red-patterned cloth.
Week 4	Text (Tute 4: Greeting Card)	Text Tool & Text Enhancement: Setup Document Page / Page & Object Coordinates / Font Family, Style, Size / Text Glyphs and Shifts / Text Alignment on a Path / Text Node & Path Editing / Export as Page or Selection. Homework: Design a child's birthday card with curling text.
Week 5	Layers (Tute 5: Map Tracing)	Layers & Image Tracing: Get & Import a Bitmap into Inkscape / Add & Name New Layers / Set Active Layer to Hidden or Visible, Locked or Unlocked / Edit Between Layers / Set Selected Layers for Export as a Bitmap. Homework: Create a traced & layered regional or street map.
Week 6	Animation (Tute 6: Buoy Bobbing)	Animation Frames & GIF Animation: Create Animation Frames on Layers & Export each as a Bitmap / Convert File Format from PNG to GIF in Paint.NET / Load Frames Into MS Gif Animator / Create Animation / Play in MS PowerPoint. Homework: Create an animation of a face grinning.