Pencil2D
Quick Reference Guide
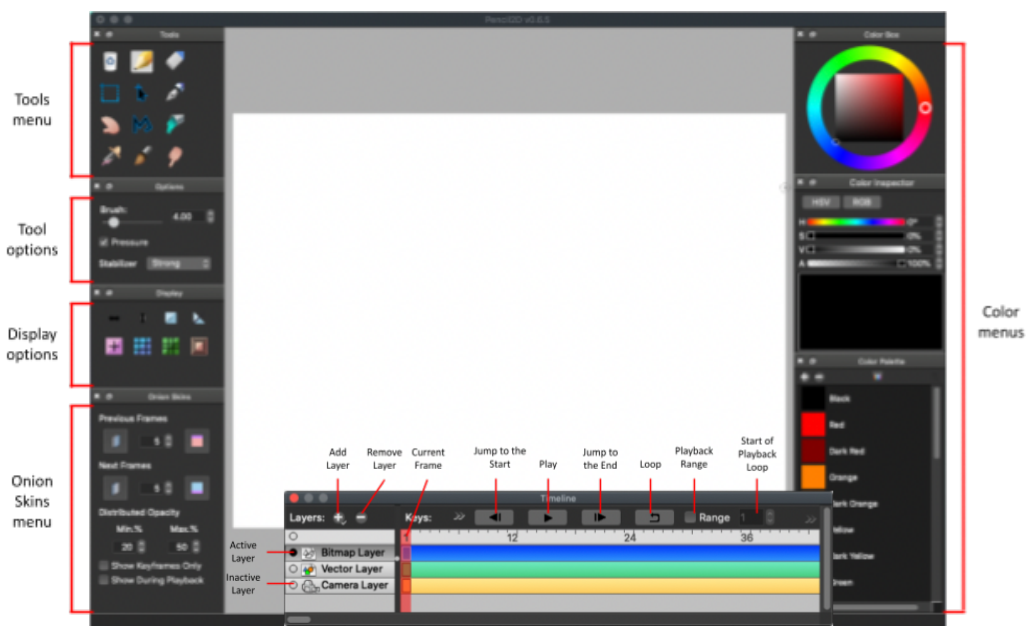
User Interface

Tools Menu

🧹	Clear Frame	✋	Hand
✏️	Pencil	Ⓜ	Polyline
🩹	Eraser	🖌️	Paint Bucket
⬚	Select	🖊️	Eyedropper
🔺	Move	🖌️	Brush
🖋️	Pen	👆	Smudge

Display Options

↔	Flip horizontal	⊕	Overlay shows field center
↕	Flip vertical	⊞	Overlay shows field in thirds
	Show invisible lines	⊞	Overlay shows field in Golden Ratio
	Show outlines only	▢	Overlay shows field safe areas

Keyboard Shortcuts

Drawing

Move an object	M
Smudge lines	A
Select object	V
Paint strokes	B
Draw lines/curves	Y
Set color	I
Draw with pen	P
Move canvas	H
Erase drawing	E
Fill color	K
Draw with pencil	N

Drawing Area

Horizontal flip	⇧ + H
Vertical flip	⇧ + V
Show/hide grid lines	G
Show/hide previous frames	O
Show/hide next frames	⌥ + O

Animation

Play	⌘ + ↵
Loop	⌘ + L
Export image sequence	⌘ + R
Export image	⌘ + ⇧ + R
Add frame	F7
Duplicate frame	F6
Remove frame	⇧ + F5
Rotate clockwise	R
Rotate anticlockwise	Z
Next frame	.
Preview frame	,
Next keyframe	⌥ + .
Preview keyframe	⌥ + ,
Move frame forward	⌘ + .
Move frame backward	⌘ + ,

Adding Layers

Add sound layer	⌘ + ⌥ + W
Add bitmap layer	⌘ + ⌥ + B
Add vector layer	⌘ + ⌥ + V
Add camera layer	⌘ + ⌥ + C

Miscellaneous

Print	⌘ + P
Undo	⌘ + Z
Redo	⌘ + Y
Cut	⌘ + X
Copy	⌘ + C
Paste	⌘ + V
New	⌘ + N
Open	⌘ + O
Save	⌘ + S
Save As	⌘ + ⇧ + S
Zoom in (incrementally)	⌘ + ↑
Zoom in (incrementally)	⌘ + ↓

Definitions

Bitmap/Raster Images
Images that are made up of pixels in a grid and have a fixed resolution.

Vector Images
Images controlled by vectors that can be resized without loss of quality.

Frame
A single image out of the sequence of images that create an animation.

Keyframe
An important frame in the animation sequence that defines where an object begins or ends.

Layer
A level that is stacked together with other layers to form a frame.

Camera
A layer to mimic the views of looking at animation through a camera.

Timeline
The order of frames in a sequence that includes controls to play, loop, or edit an animation.

Onion Skins
A technique in creating animated cartoons that shows the previous and next frames semi-transparently over a selected frame.