Pimel Art: 1.0 Square is Cool!

by Astra Wijaya (astrawijaya.com) with Tech Valley Game Space

What is on the menu today?

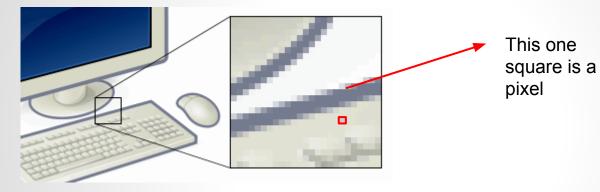
- 1. Introduction
- 2. History
- 3. Software setup
- 4. Playing with pixels
- 5. Resources

0.1 Some questions

- Does anyone know how/is learning to draw (digital or traditional)?
- Familiar with Photoshop/Piskel/other image editing software?
- Who is using what software?

1.1 What is a pixel?

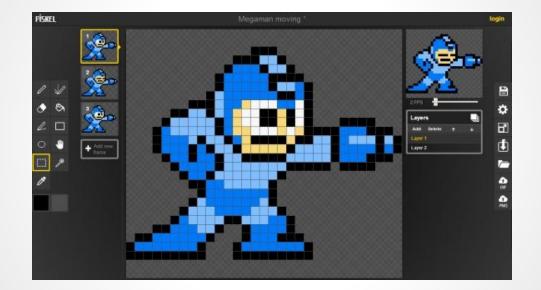
- From the words, *picture* and *element*.



"Pixel-example" by ed g2s • talk - Example image is a rendering of Image:Personal computer, exploded 5.svg.. Licensed under CC BY-SA 3.0 via Wikimedia Commons - https://commons.wikimedia. org/wiki/File:Pixel-example.png#/media/File:Pixel-example.png

1.2 What is pixel art?

- Drawing or editing on the pixel level that now has become a style of its own.



2.1 History

- Came from hardware processing limitation
- Not able to draw or render too many colors



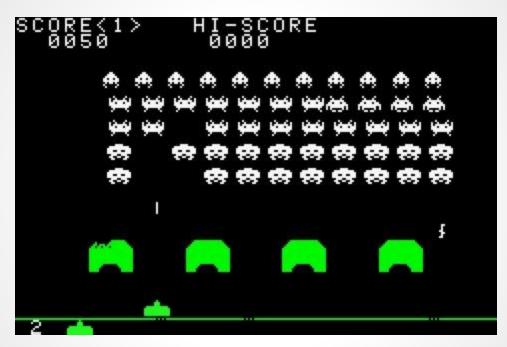
2.1 History

- Very similar to mosaic art

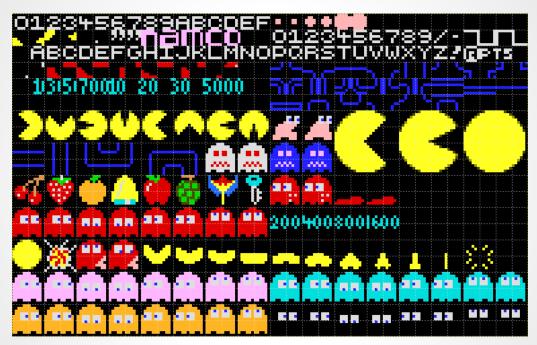




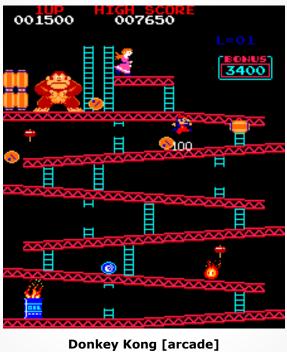
Pong (1972) Credit: Amintore Fanfani



Space Invaders (1978)



Pac Man (1980



(1981)





Ryu (Street Fighter series) 1987+



Chrono Trigger (1995)



Metal Slug series (1996+)



Castlevania: Symphony of the Night (1997)



Final Fantasy Tactics (1997)



Pokemon series (1996)



3D Dot Game Heroes (2009)



Minecraft (2009)



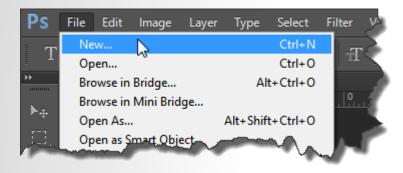
Scott Pilgrim VS The World: The Game (2010)



Superbrothers: Sword & Sworcery EP (2011)

3.1 Software Setup

Familiarizing with painting software: Create new file



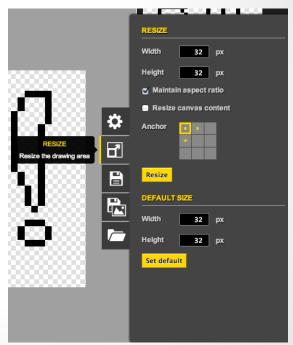
Photoshop: New File (32x32 pixels) or **CTRL+N** (Win) / **CMD+N** (Mac)

Name:	Pixel Test			OK
- Preset: Custom	The Test			
- Preset: Custom		•		Cancel
Size:			*	Save Preset
Width:	32	Pixels	\$	Delete Preset
Height:	32	Pixels	\$	
Resolution:	72	Pixels/Inch	\$	
Color Mode:	RGB Color \$	8 bit	\$	
Background Contents:	White		\$	Image Size:
Advanced				3.00K
Color Profile:	sRGB IEC61966-2.1		\$	
Pixel Aspect Ratio:	Square Pixels		÷	

3.1 Software Setup

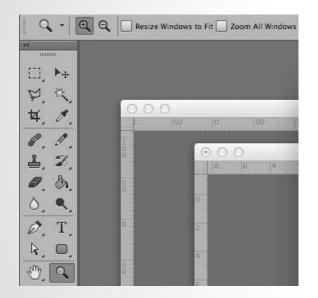
Familiarizing with painting software: Create new file

Piskel: **Resize** to 32 x 32 pixel



3.2 Software Setup

Familiarizing with painting software: Zoom (PS and Piskel)



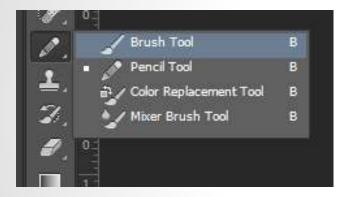


Piskel: (+) to Zoom in (-) to Zoom out

Photoshop: Zoom Tool (Z) or CTRL [CMD] +(+) to zoom in and CTRL [CMD] + (-) to zoom out.

3.3 Software Setup

Familiarizing with painting tools: Pencil (PS) / Pen (Piskel)



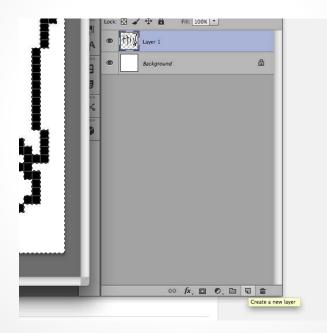
Photoshop: Pencil tool (B or Shift+B to cycle)



Piskel: Pen tool (P)

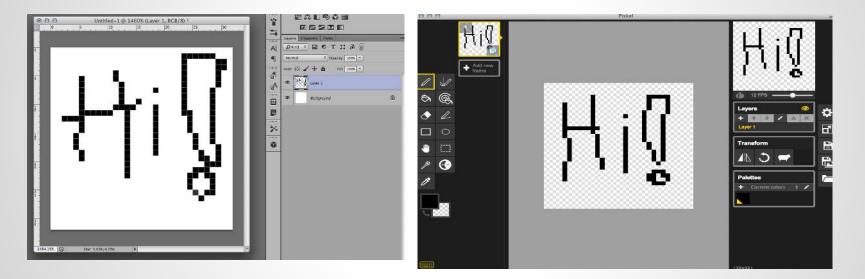
3.3 Software Setup

Familiarizing with painting tools: Pencil (PS) / Pen (Piskel)



3.3 Software Setup

Familiarizing with painting tools: Pencil (PS) / Pen (Piskel)



3.4 Software Setup

Familiarizing with painting software: Undo

Photoshop

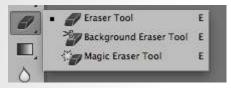
-(Win) or CMD+ALT+Z (Mac)

Piskel

Multiple undos: **CTRL+ALT+Z** - Multiple undos: **CTRL+Z** (Win) or CMD+Z (Mac)

3.5 Software Setup

Familiarizing with painting tools: Eraser (PS and Piskel)



Photoshop: Eraser tool (E or Shift+E to cycle)



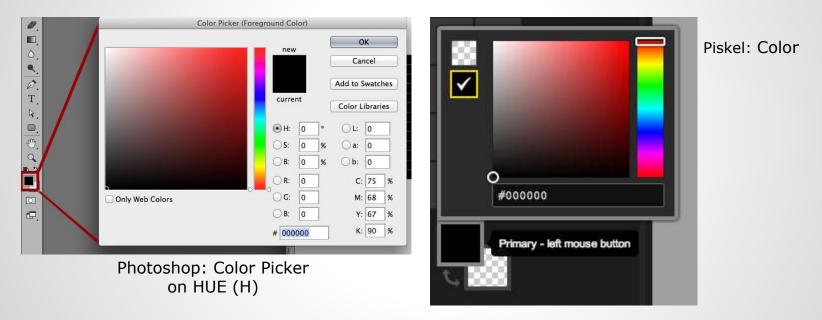
Photoshop: Mode: PENCIL



Piskel: Eraser tool (E)

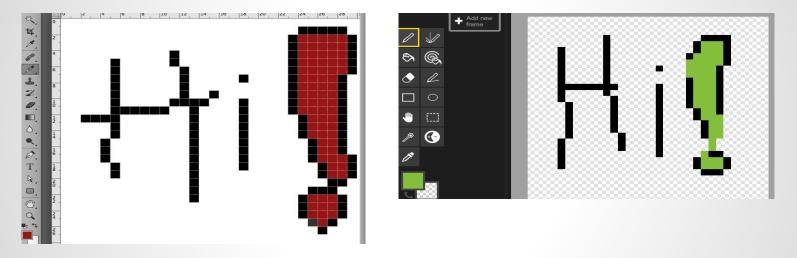
3.6 Software Setup

Familiarizing with painting tools: Color (PS and Piskel)



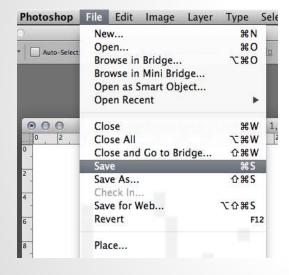
3.6 Software Setup

Familiarizing with painting tools: Color (PS and Piskel)



3.7 Software Setup

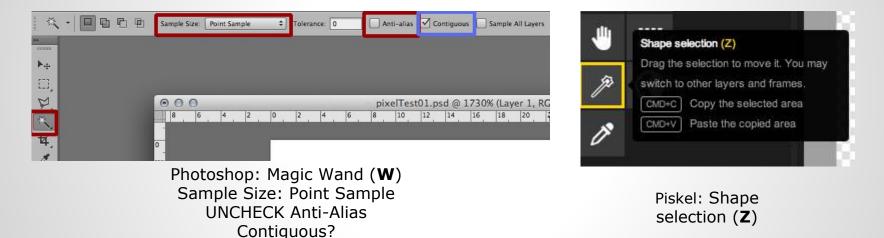
Familiarizing with painting software: *Saving file* (PS and Piskel)





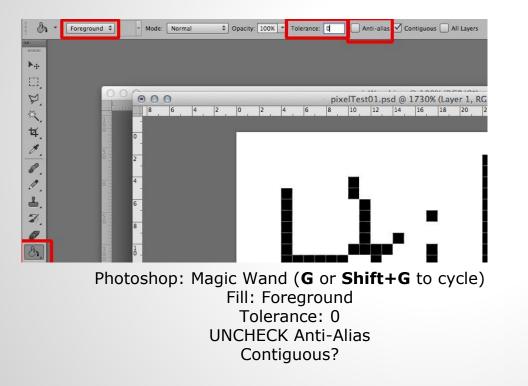
3.8 Software Setup

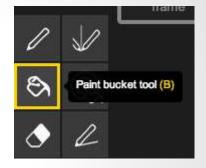
Familiarizing with painting tool: *Magic Wand* (PS) and *Shape* selection (Piskel)



3.9 Software Setup

Familiarizing with painting tools: Paint Bucket (PS and Piskel)

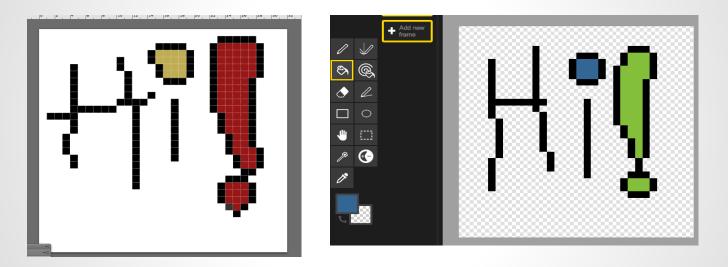




Piskel: Paint Bucket (**B**)

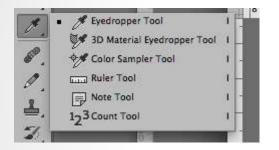
3.9 Software Setup

Familiarizing with painting tools: Paint Bucket (PS and Piskel)

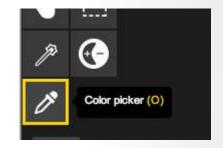


3.10 Software Setup

Familiarizing with painting tools: *Eyedropper* (PS) and *Color picker* (Piskel)



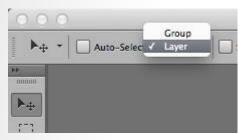
Photoshop: Eyedropper (**I** or **Shift+I** to cycle)



Piskel: Color picker (**O**)

3.11 Software Setup

Familiarizing with painting tools: Move Tool (PS and Piskel)



Photoshop: Move (**V**) Auto-Select?



Piskel: Move (**M**)

3.11 Software Setup

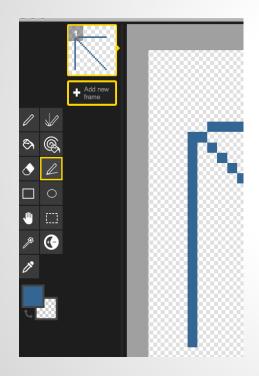
Familiarizing with painting tools: Move Tool (PS and Piskel)

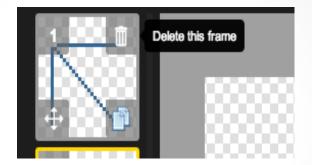


Photoshop: Move (**V**) Make sure the layer that you want to move is selected



Create New File





_



Piskel:

- Add New Frame
- Mouse over to old frame and Delete the frame
 - Go to Save and Save As another file name

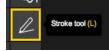
Creating straight lines

Photoshop: Hold Shift+click and drag using Pencil (Horizontal and Vertical)

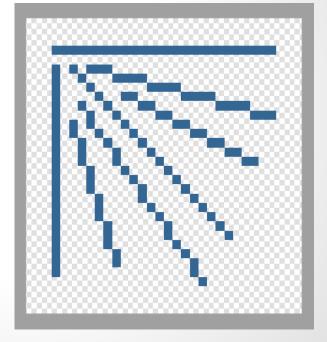


Creating straight lines

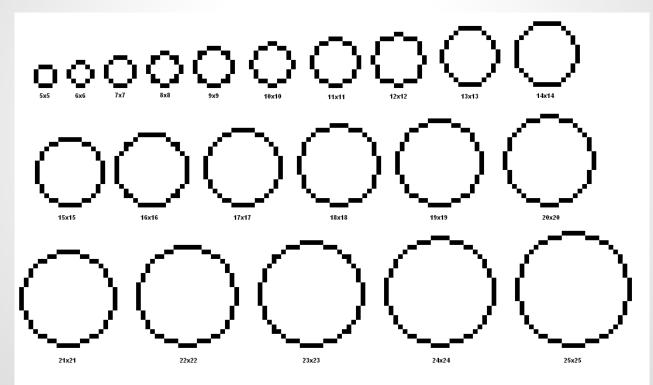
Piskel: Click and drag the Stroke Tool (L)



and then SAVE FILE!



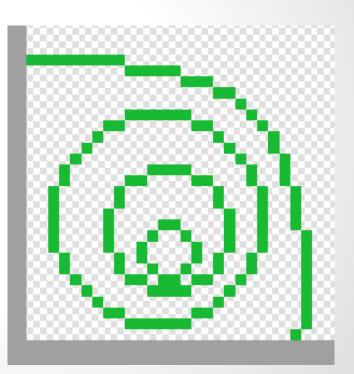
Creating circular lines



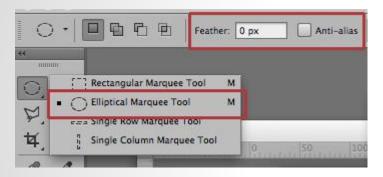
Creating circular or smooth curved lines



Piskel: Circle Tool (**C**) Press and hold Shift when dragging for perfect circle

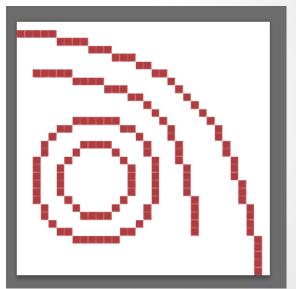


Creating circular or smooth curved lines

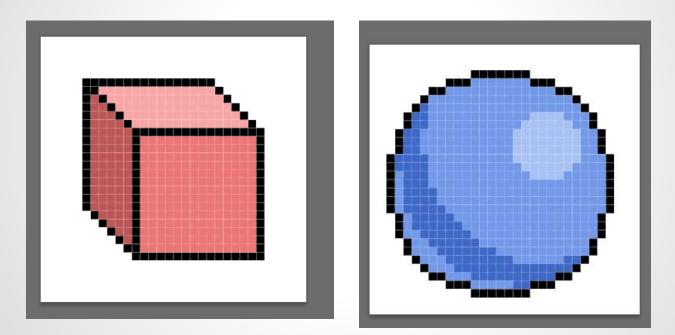


Photoshop: Eliptical Marquee Tool (Shift + **M** to cycle) DEMO!

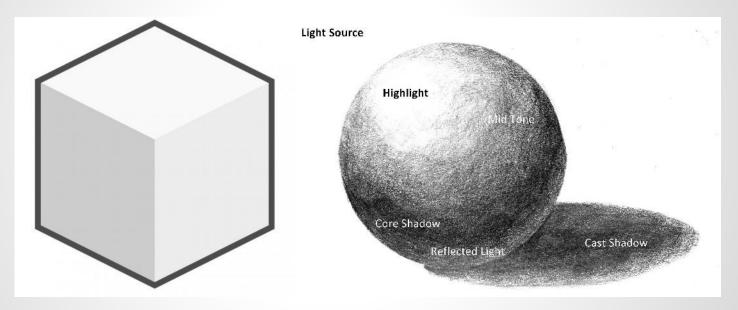
and then SAVE FILE!



Creating a ball and a cube



Creating a ball and a cube



Creating YOUR self-portrait



Creating YOUR self-portrait



By Dale Karp

By Otanim





Found on vixels.net

Creating YOUR self-portrait



From 2006 RPI Pixel Art lecture

Creating YOUR self-portrait



From http://pixelfigures.tumblr.com

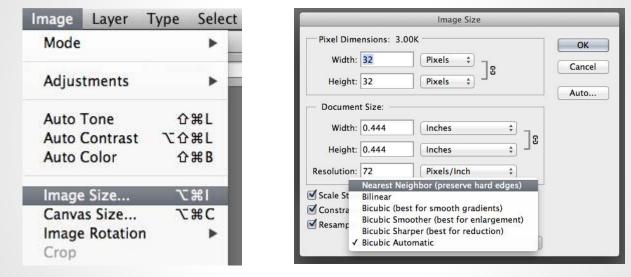
Creating YOUR self-portrait

Demo

Creating YOUR self-portrait

Do not forget to **save**!

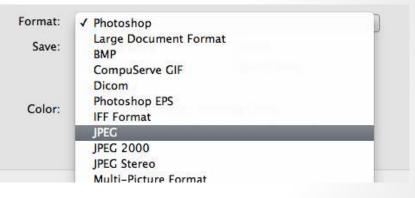
Enlarging the image



Photoshop: Image Size **CTRL+ALT+I** [WIN] or **CMD+ALT+I** [MAC] Resample Image set to :*Nearest Neighbor (preserve hard edges)* **DEMO**

Saving the image

File	Edit	Image	Layer	Type
New				ЖN
Open				жo
Browse in Bridge				7.20
Bro	wse in	Mini Bri	dge	
Op	en as S	Smart Ob	ject	
Open Recent				•
Clo	se			жw
Close All				X#V
Close and Go to Bridge				ΰжω
Sav	'e			ЖS
Sav	e As			<mark></mark>
Ch	eck In.	**		
Sav	e for V	Veb		<u></u> ርዕ <mark></mark> አ
Rev	/ert			F12
Pla	ce			
Import				Þ
Export				•
Automate				•
Scripts				•



Photoshop: Save As CTRL+SHIFT+S [WIN] or CMD+SHIFT+S [MAC]

Exporting the image on Piskel



Piskel: Export as PNG or Export as GIF

5.1 Resources

Pixel Art: 2.0 It Is (Not) Dangerous Out There. Take these!

- Pixel art documentary (<u>YouTube link</u>)
- A writing about pixel art (<u>The Verge link</u>)
- <u>Eboy</u>, a famous pixel art trio
- 30 pixel art artists compiled by <u>CreativeBloq</u>
- A forum tutorial for pixel art at Pixel Joint
- A great tutorial by <u>Derek Yu</u>
- Adam Saltsman's pixel art freelance guide at GamaSutra (2009)
- One big list of tutorials, inspirations, artists, and forums at pixelprospector.com
- Kotaku's article about a Japanese pixel artist

6.1 (bonus) Q&A

Questions? Comments? Concerns? More classes like this?

The End?

Slides sharing bit.ly/lIUacjC

Thank you for coming!





