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## CHAPTER 7

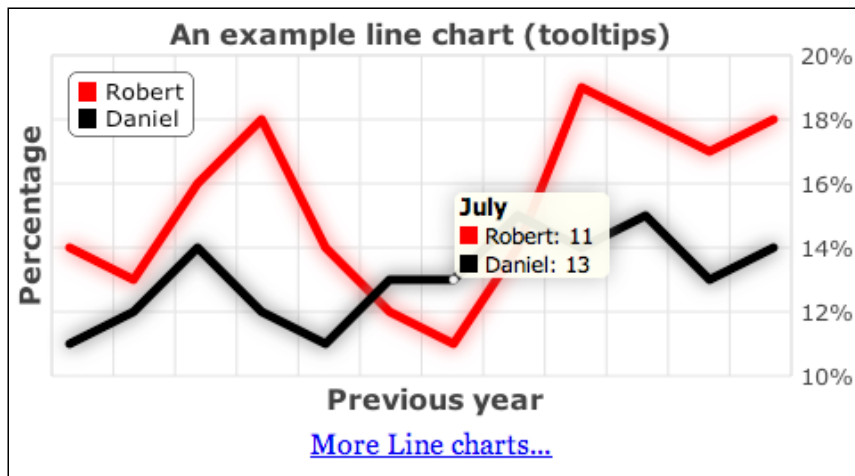
# Real World Examples and Tools

Now that you know a lot about how canvas works, lets explore what it's actually good for and some useful libraries.

## Graphs and Charts

RGraph is a free for personal use charting library for canvas. It has many different chart forms.

[www.rgraph.net](http://www.rgraph.net)



ZingChart is a hosted charting library with a visual builder. It renders in many different output formats, including Canvas, and can handle large datasets.

<http://www.zingchart.com/>

**ZingChart** Download + Purchase + Learn + Support

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## Render Charts in HTML5, SVG, VML and Flash!

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**Build Flash or HTML5 charts and graphs with the latest & greatest features and technologies**

- More than a Dozen Chart Types
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- HTML5 Canvas Charts
- JSON
- Update Graphs with Ajax
- Control Charts

**ZingChart Chart Builder**  
NOTHING TO DOWNLOAD!  
Start building NOW!

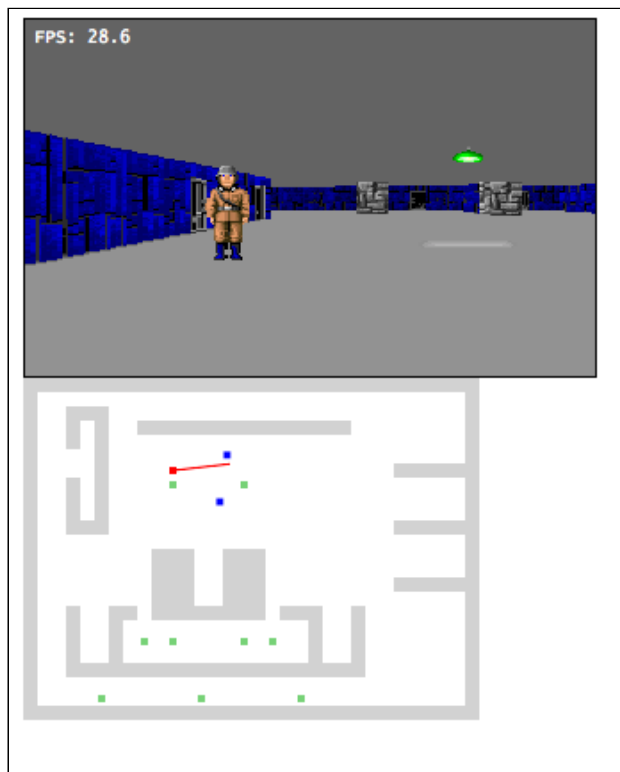
**TWITTER - BLOG**

@marstonj No problem! Let us know if you have other questions. \*Andrew about 6 hours ago

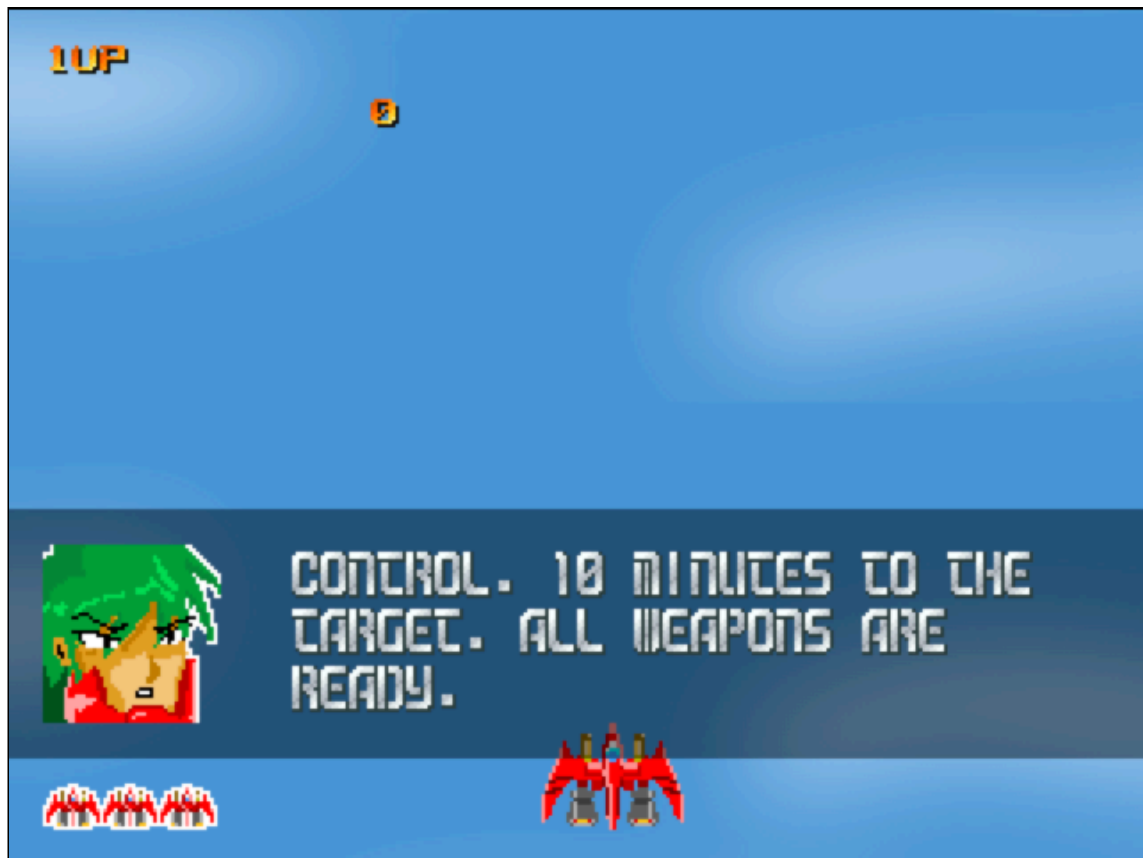
Holler! Got an email addy we can address to? RT @aggy: @ZingChart holler at us - we'd like a quote for SaaS use. 9 days ago

Follow us on twitter

## Game Engines



Wolfenstein 3D recreated in canvas.  
[Opera Dev Article](#)



Akihabara Game Engine  
[www.kesiev.com/akihabara](http://www.kesiev.com/akihabara)



ImpactJS: fast commercial game engine  
[impactjs.com](http://impactjs.com)

Control Mario with the arrow keys or: A = Left, D = Right, W = Jump



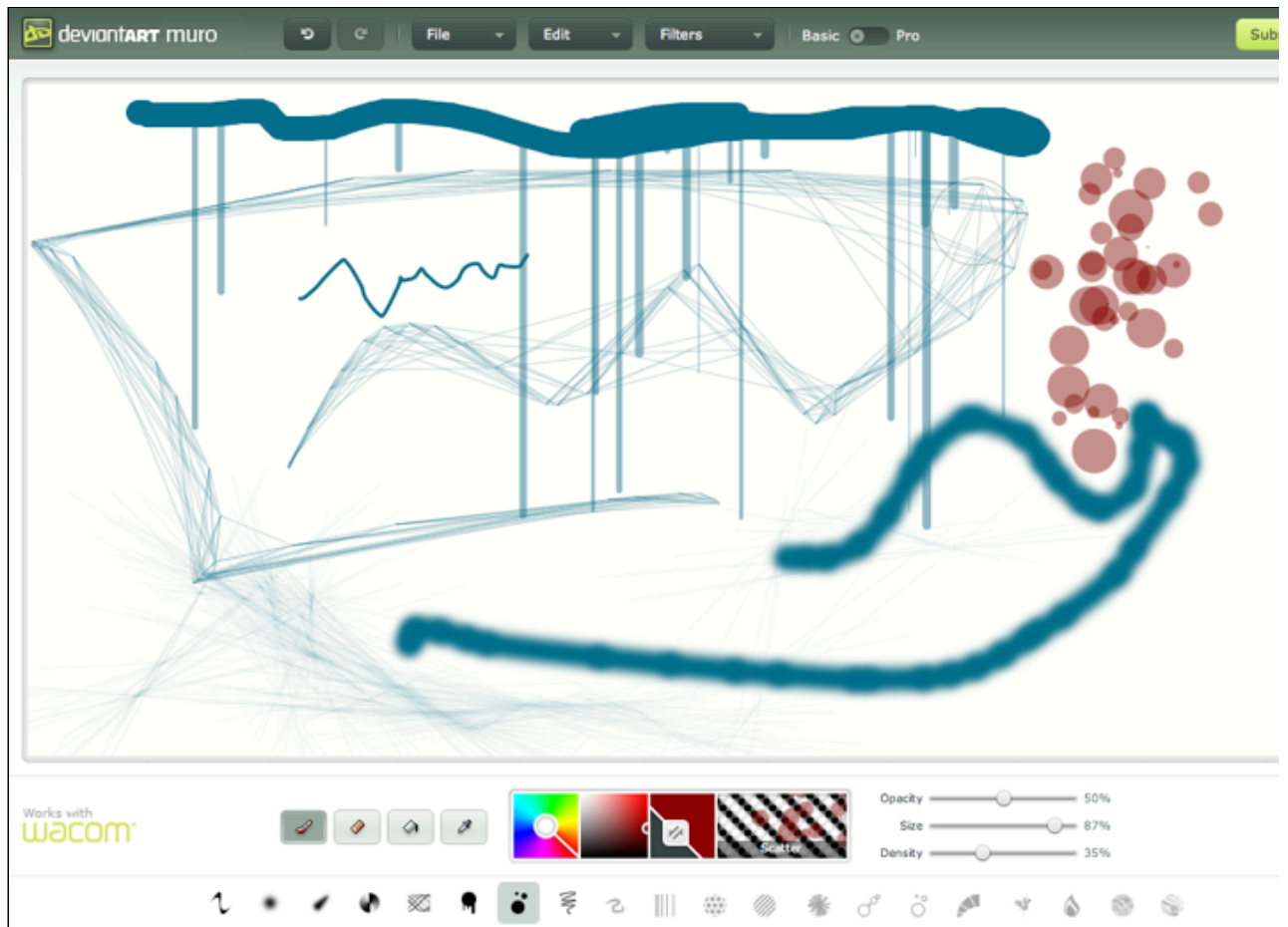
Mario is © Nintendo

Cocos2D: partial javascript port of the Cocos iPhone SDK  
[cocos2d-javascript.org](http://cocos2d-javascript.org)

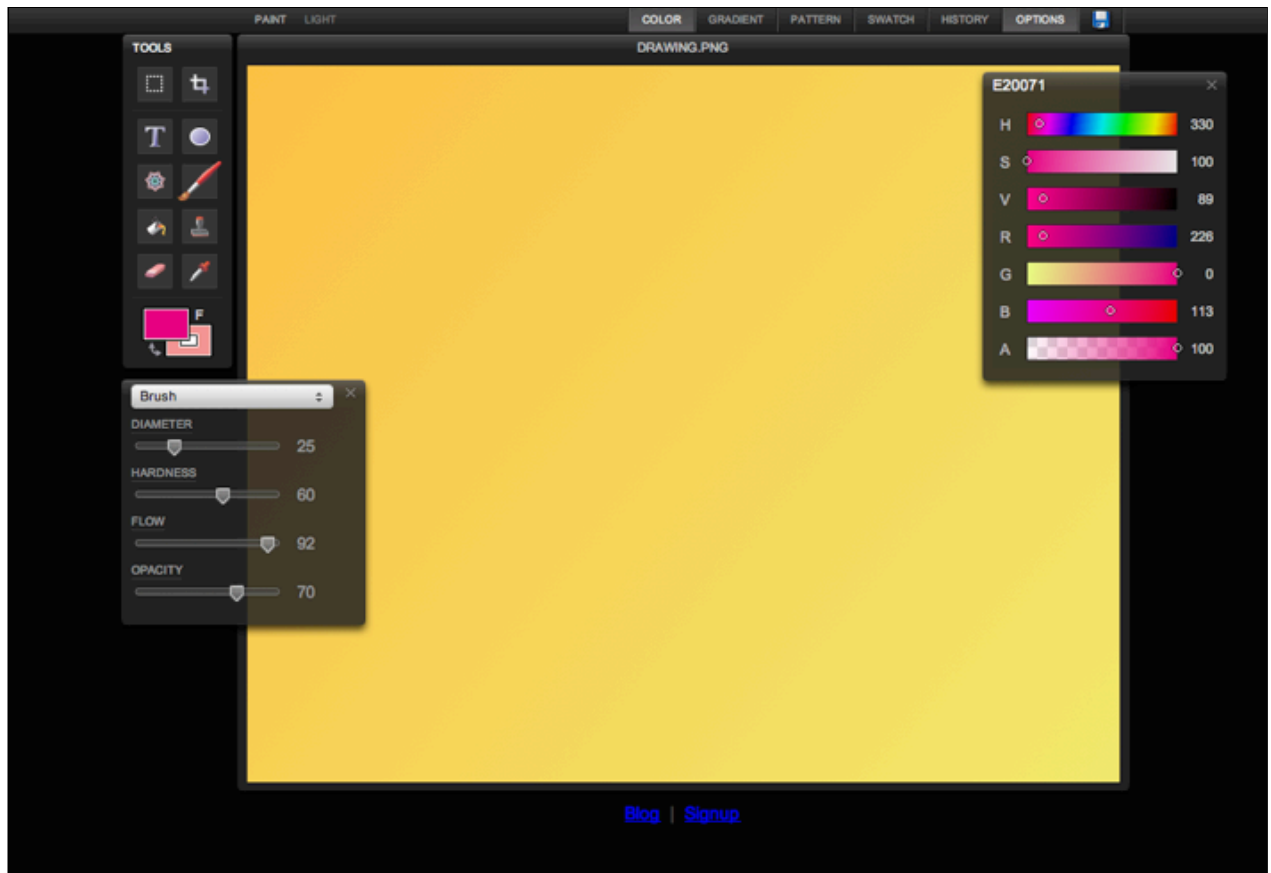


Pirates Love Daises is a tower defense game done entirely in canvas.  
[PiratesLoveDaises.com](http://PiratesLoveDaises.com)

## Drawing Programs



Muro: Deviant Art's webbased painting program.  
[deviantart.com](http://deviantart.com)



SketchPad: another drawing program with a very classy UI  
[mugtug.com/sketchpad/](http://mugtug.com/sketchpad/)

## Custom Fonts



## Canvas Fonts

This page is designed to help you create fonts capable of use with the HTML Canvas tag.

The fonts must be used with the script [found here](#).

It will not work for fonts that have overlapping characters (I might fix this if I find the time).

Font:

Size:  pt

```
// Canvas Font generated by Benjamin Joffe at http://random.abrahamjoffe.com.au/public/JavaScripts/canvas/fontGenerator.htm  
  
var JazzLET64=new Image();  
JazzLET64.src=""; // paste your data url string here  
JazzLET64.c='abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ 0123456789!@#$%^&*()-=[\]\';\'. /_+{}|:"<>?`~'-';  
JazzLET64.w=[55,56,46,57,52,34,50,56,28,28,53,28,83,57,54,57,56,38,43,37,57,46,63,47,45,44,55,64,56,65,50,49,64,66,32,33,64,47  
JazzLET64.h=120;
```

Use print screen to capture the box below, crop it so that no black border is present, then create a .gif or .png file.  
The next step is to convert it into a data url which can be done at [this page](#).  
Finally post the string into the code at the appropriately commented line.

abcdefghijklmnopqrstuvwxyz

Ben Joffe's canvas font script. Converts a font on your computer into an image which can be rendered with canvas. This lets you use a custom font on computers that don't have that actual font installed.

[benjoffe.com](http://benjoffe.com)

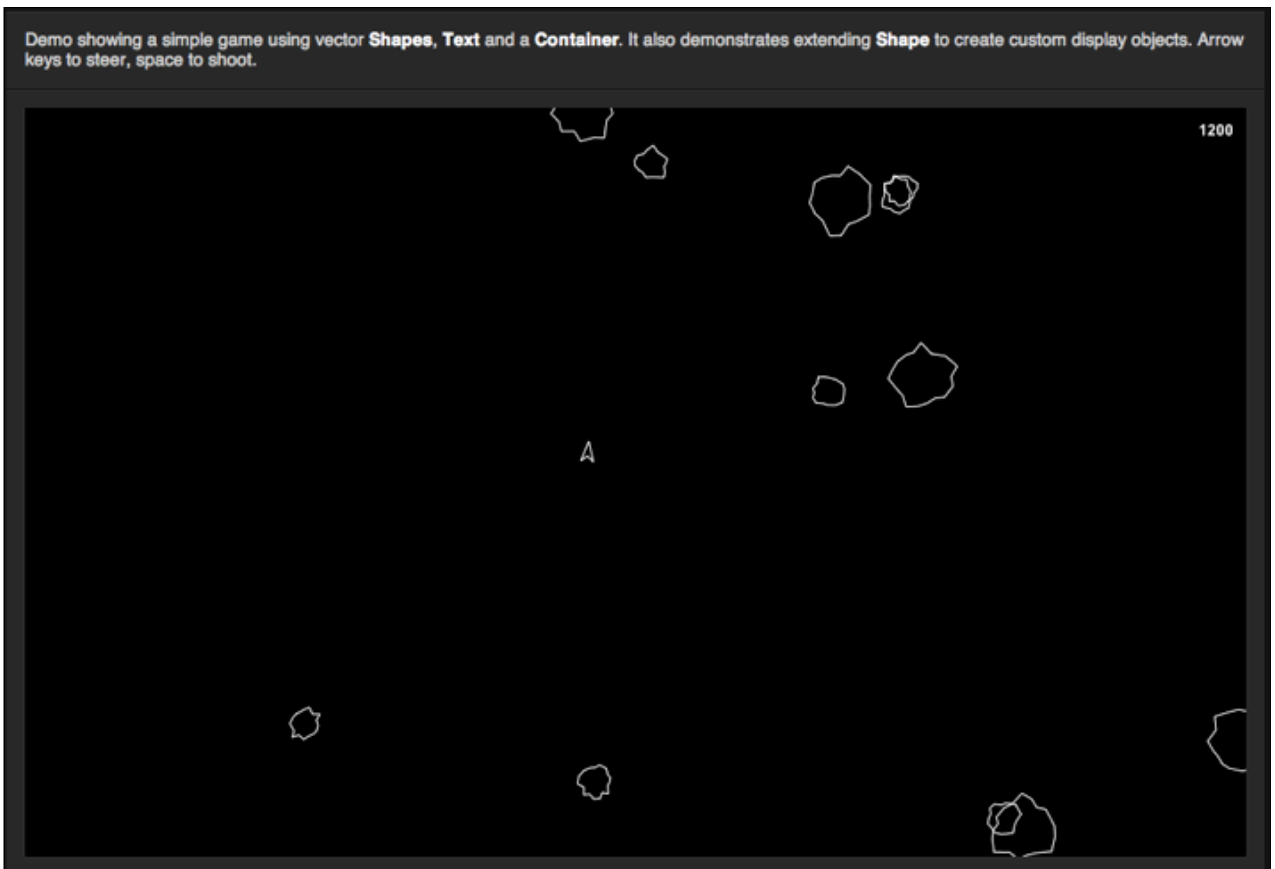


A canvas enriched children's poem. The text is markup and the graphics are in a transparent canvas.

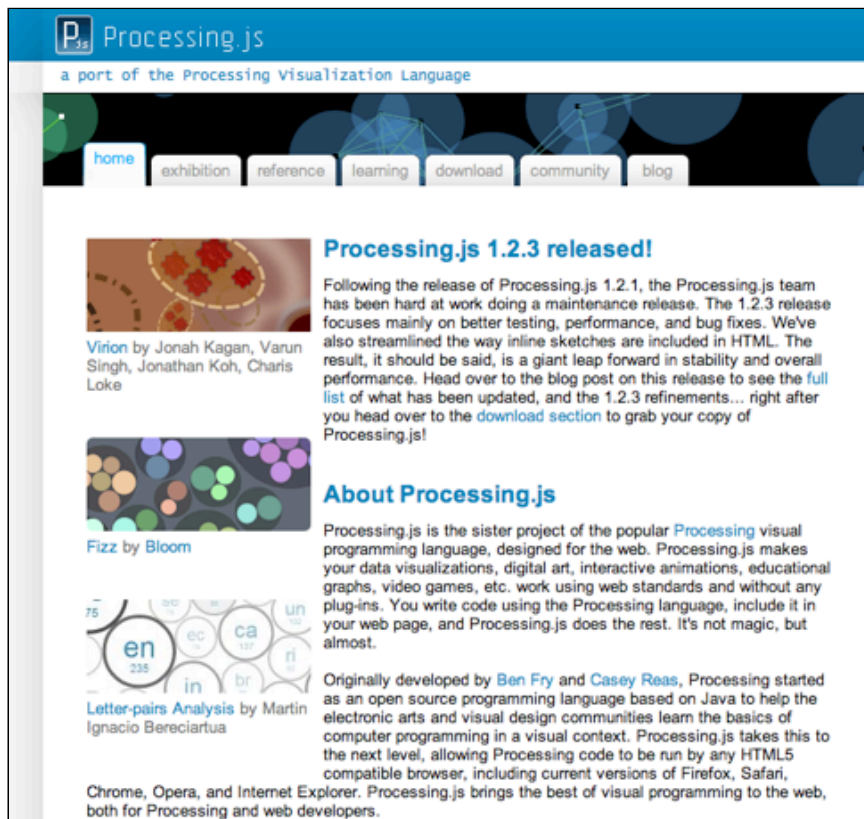
[Josh On Design](https://joshondesign.com/p/books/canvasdeepdive/chapter_07.html)

## Tools and Libraries





EaselJS: A graphics library loosely based on Flash's display list. [Easel JS](#)



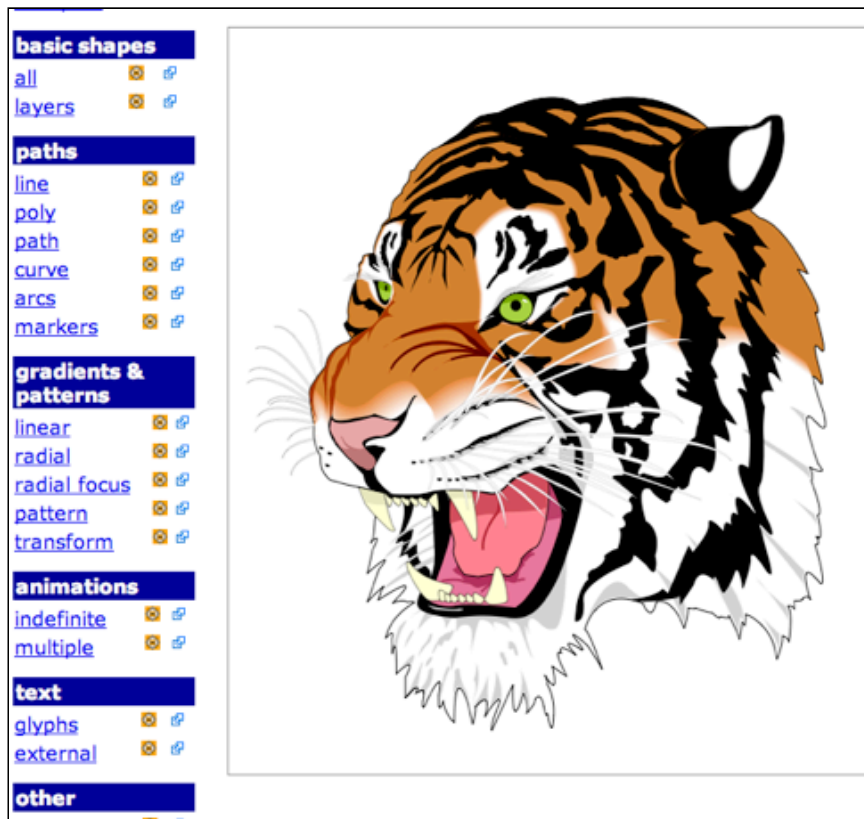
A javascript port of the Java Processing graphics library. Great for interactive displays and art.

[Processing JS](#)



Kapi: a keyframing javascript library.

[JeremycKahn.github.com/kapi/](https://jeremyc Kahn.github.io/kapi/)



canvg: an SVG renderer built with canvas

[code.google.com/p/canvg/](https://code.google.com/p/canvg/)

## Documentation: Posterize


**Description**

This action reduces the number of colours to a specified number of levels, creating a posterize effect.


[Demo](#) [Example code](#) [Parameters](#)

**Demo**

Levels:



[Posterize](#) [Reset](#)




View source: [posterize.js](#)

Pixastic is a photo editor and image processing library. It has tons of Photoshop style filter effects

[Pixastic.com](http://Pixastic.com)

## Visual Tools

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# Tumult Hype

Create. Animate. HTML5.

[Play Intro Video](#)

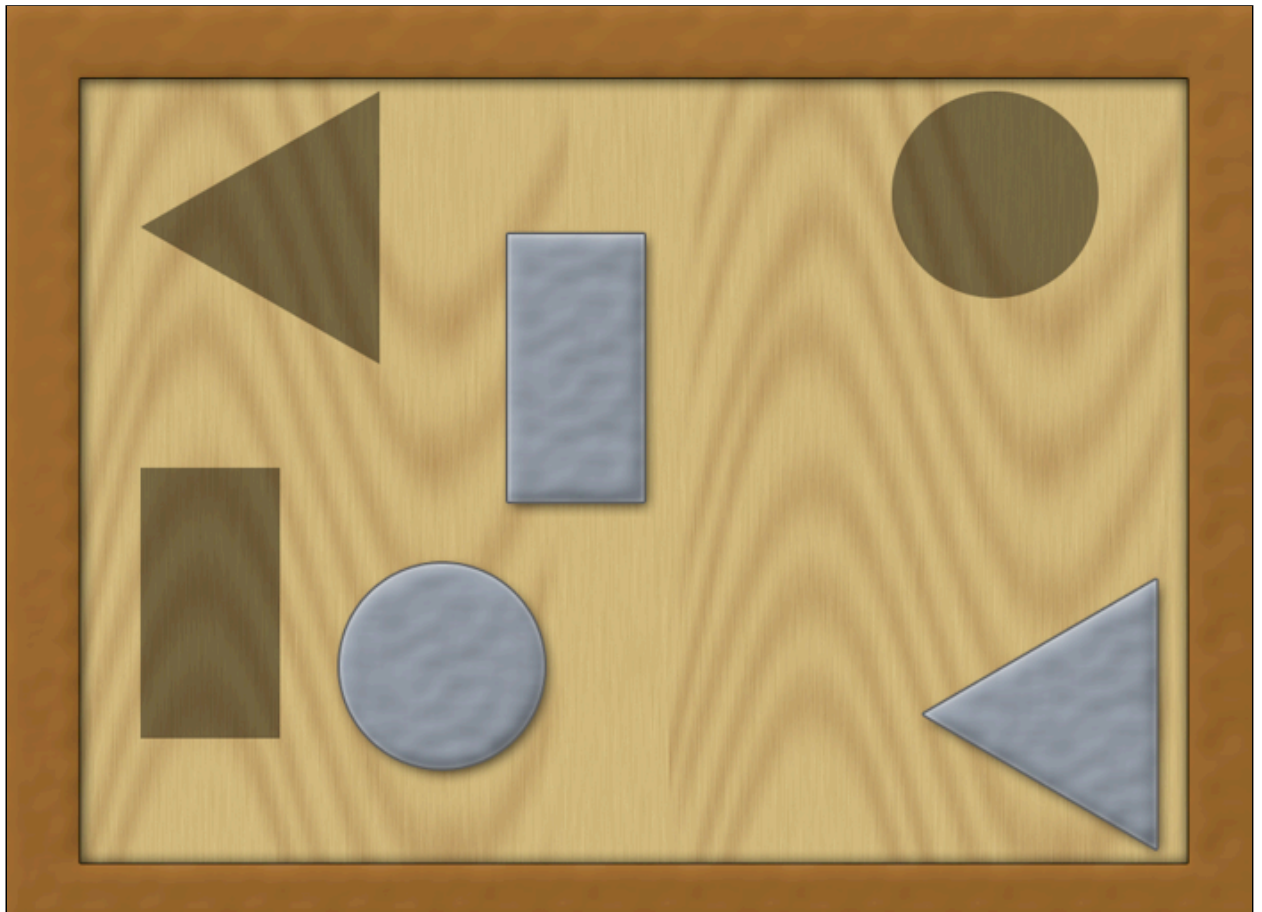
Using Tumult Hype, you can create beautiful HTML5 web content. Animations and interactive content made with Tumult Hype works on desktops, smartphones and iPads. No coding required. [Learn More.](#)

 Available on the Mac App Store

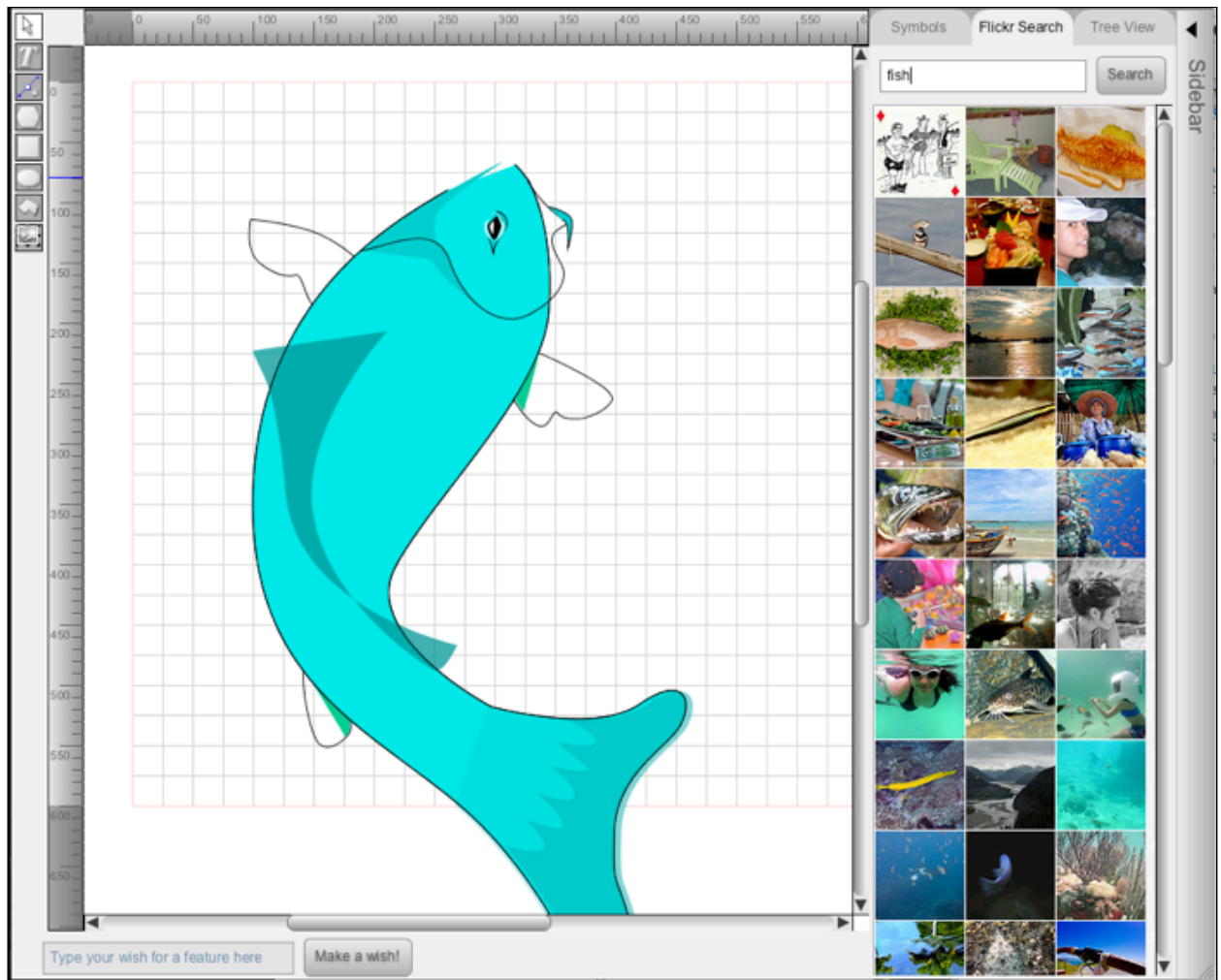
Tumult Hype can be purchased on the [Mac App Store](#) for an introductory price of USD \$29.99.

Hype by Tumultco, a commercial drawing and animation tool which outputs straight

## HTML 5

[tumultco.com/hype/](http://tumultco.com/hype/)

Amino : open source JavaScript and Java scenegraph. [GoAmino.org](http://GoAmino.org)



Leonardo Sketch: open source drawing tool which outputs to canvas and Amino code, among other formats. It is extensible and has some neat social features.

[LeonardoSketch.org](https://leonardosketch.org)

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