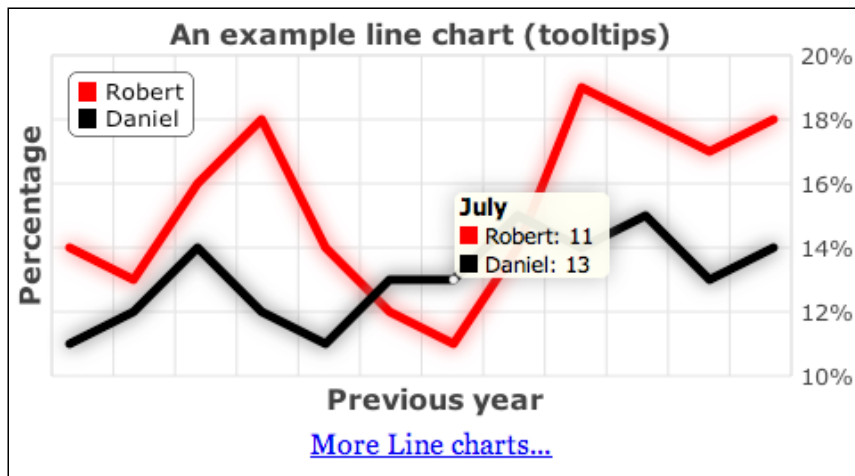CHAPTER 7

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

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/

Game Engines

Wolfenstein 3D recreated in canvas.
Opera Dev Article
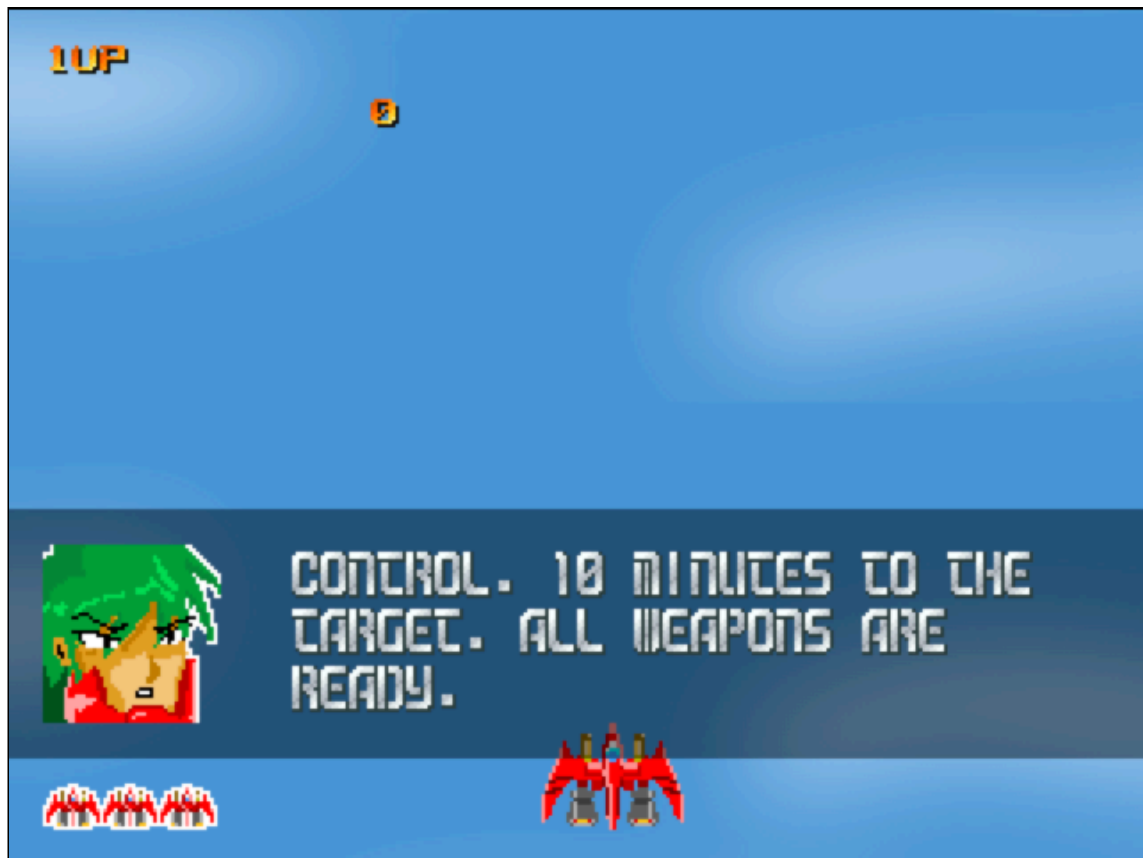
Akihabara Game Engine
www.kesiev.com/akihabara

ImpactJS: fast commercial game engine
impactjs.com

Cocos2D: partial javascript port of the Cocos iPhone SDK

cocos2d-javascript.org
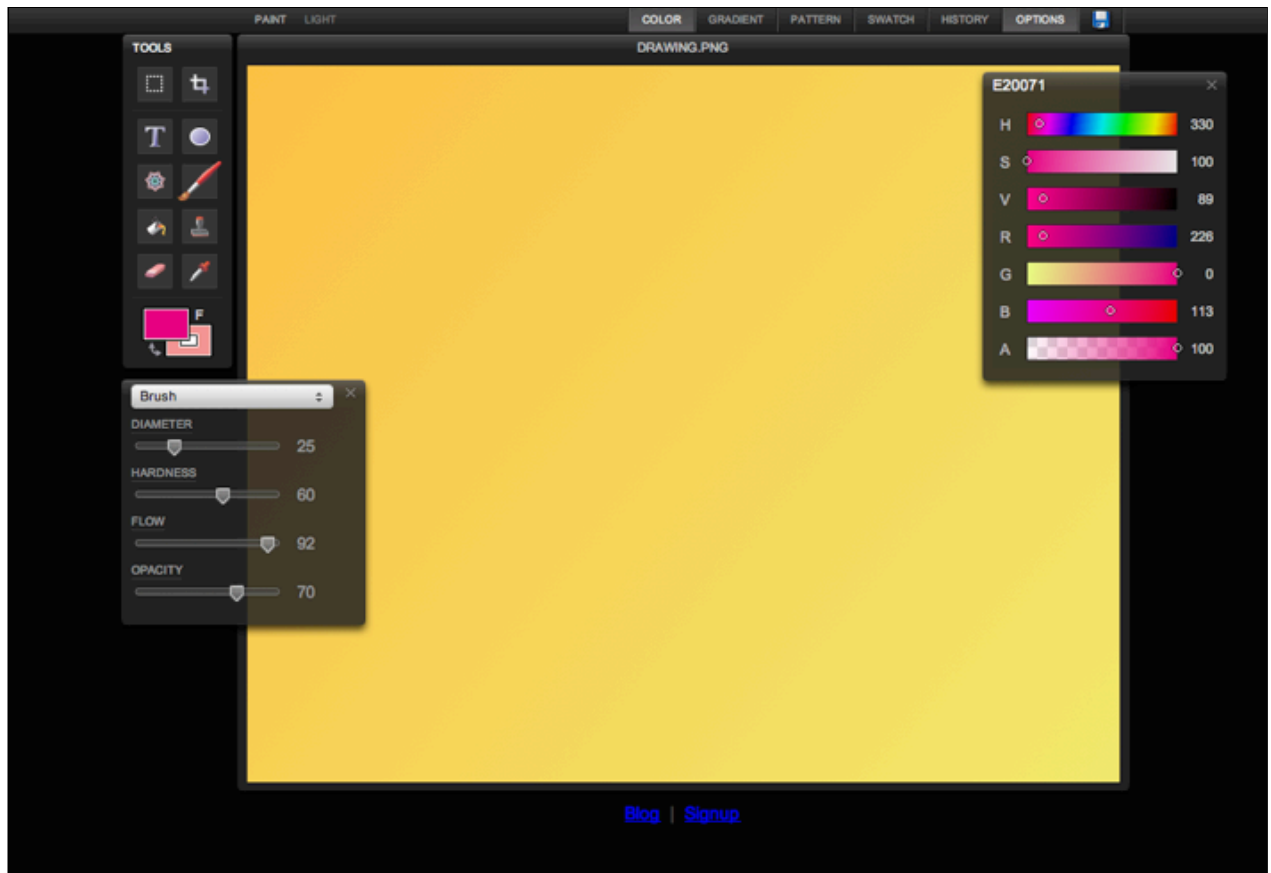

Pirates Love Daises is a tower defense game done entirely in canvas.

PiratesLoveDaises.com

Drawing Programs
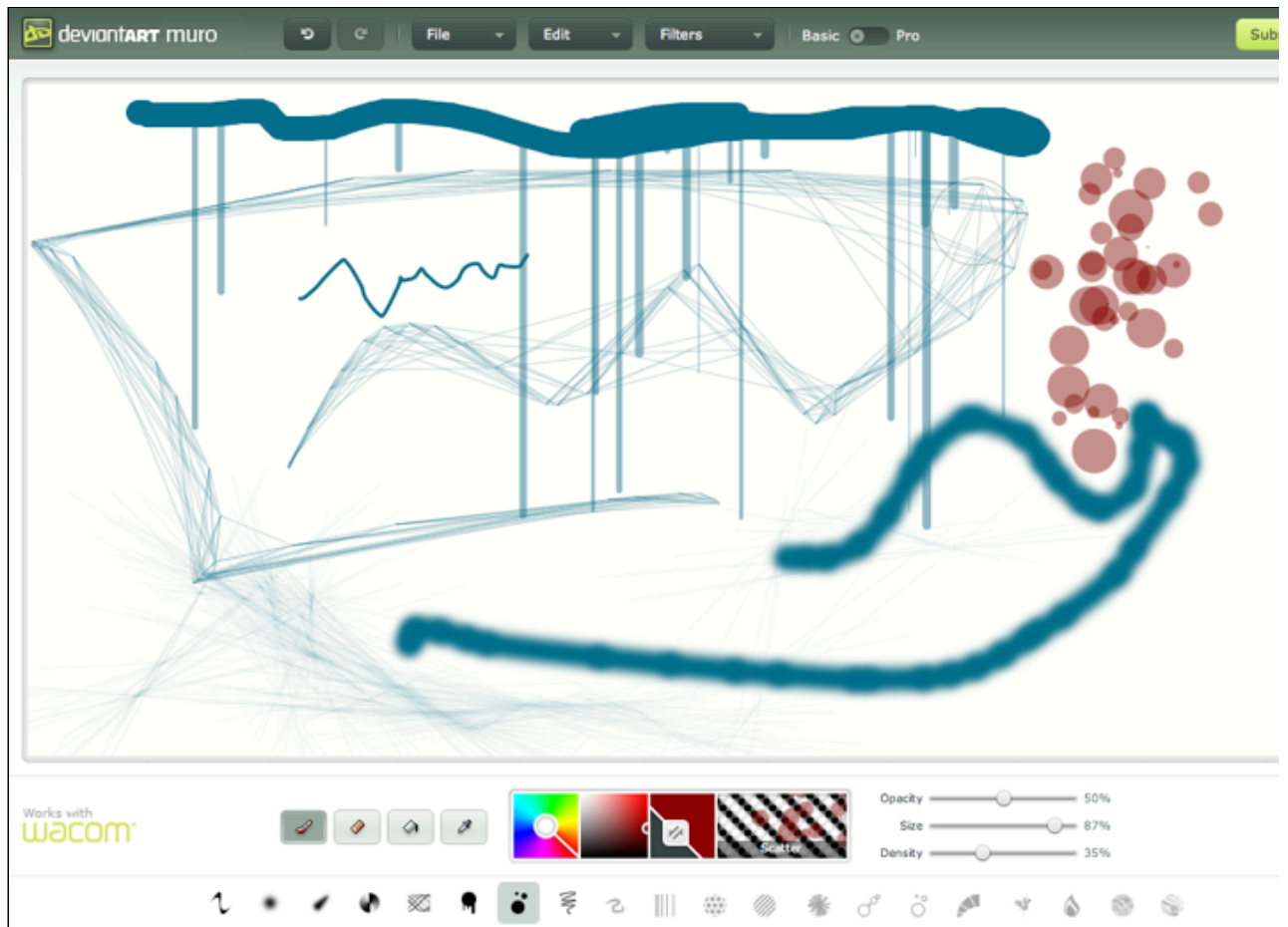
Muro: Deviant Art's webbased painting program.

deviantart.com

SketchPad: another drawing program with a very classy UI
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 overlaping characters (I might fix this if I find the time).

Font: `Jazz LET`
Size: `64`   pt
[Generate Font]

```
// 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.

abcdefghíjklmnopqrstu

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.
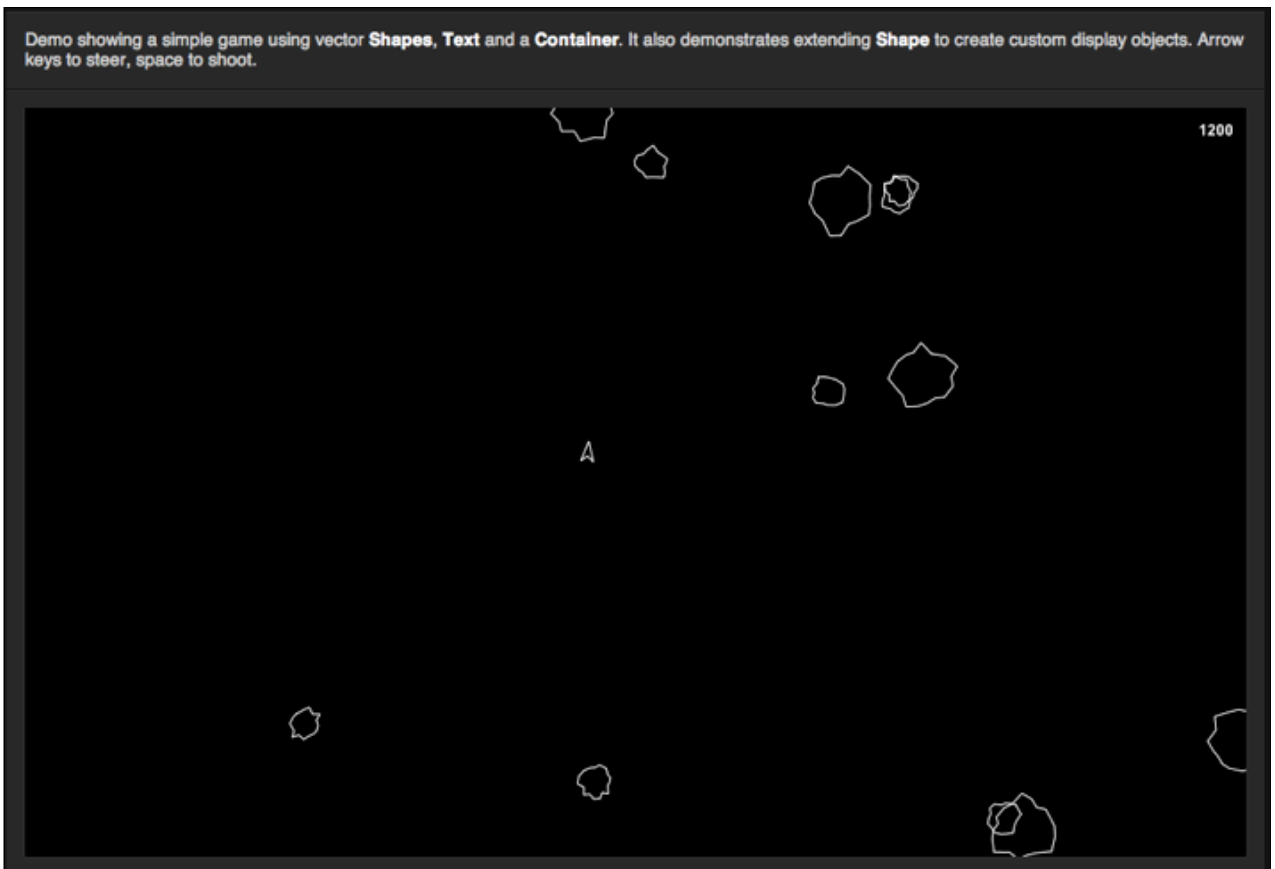benjoffe.com

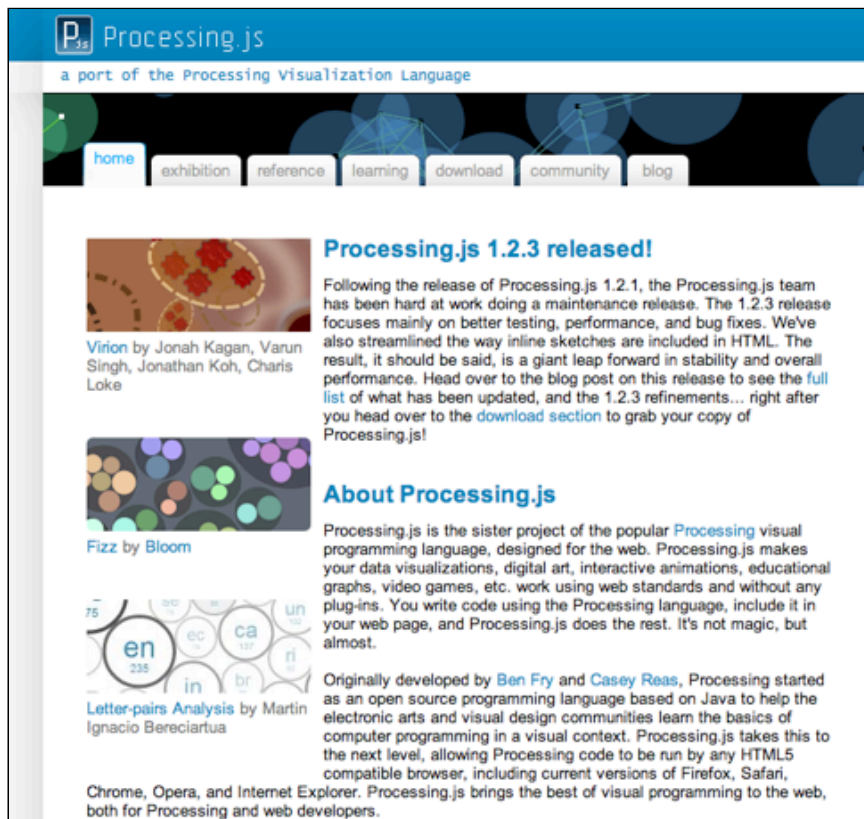A canvas enriched children's poem. The text is markup and the graphics are in a transparent canvas.

Josh On Design

Tools and Libraries

EaselJS: A graphics library loosely based on Flash's display list. Easel JS
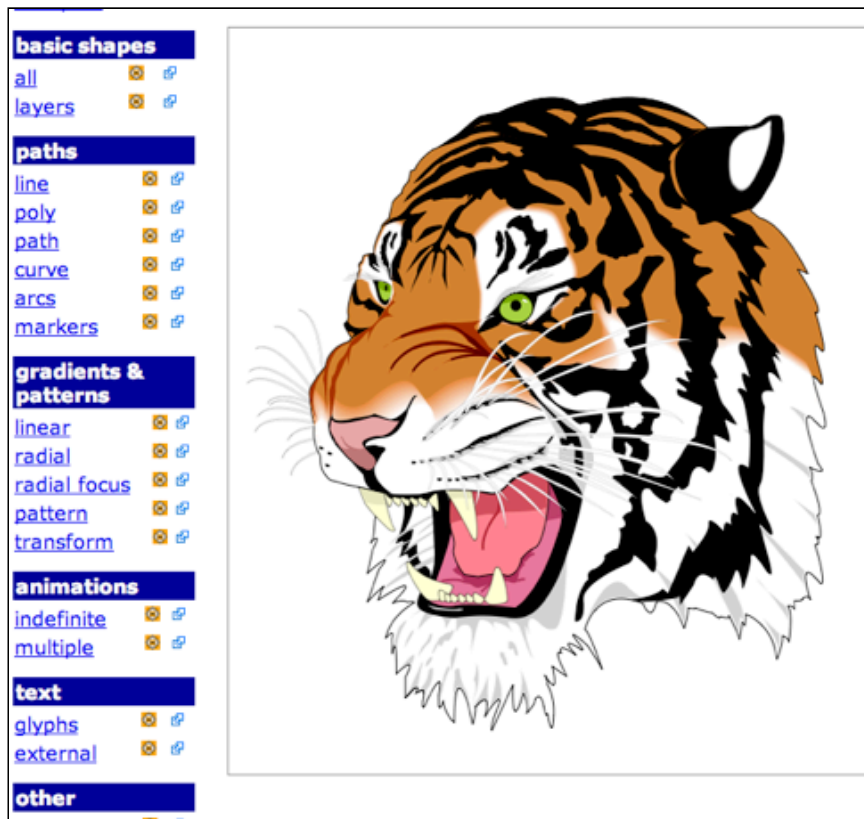

A javascript port of the Java Processing graphics library. Great for interactive displays
and art.
Processing JS

Kapi: a keyframing javascript library.
JeremycKahn.github.com/kapi/

canvg: an SVG renderer built with canvas
code.google.com/p/canvg/

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

Pixastic.com

Visual Tools

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

HTML 5
tumultco.com/hype/
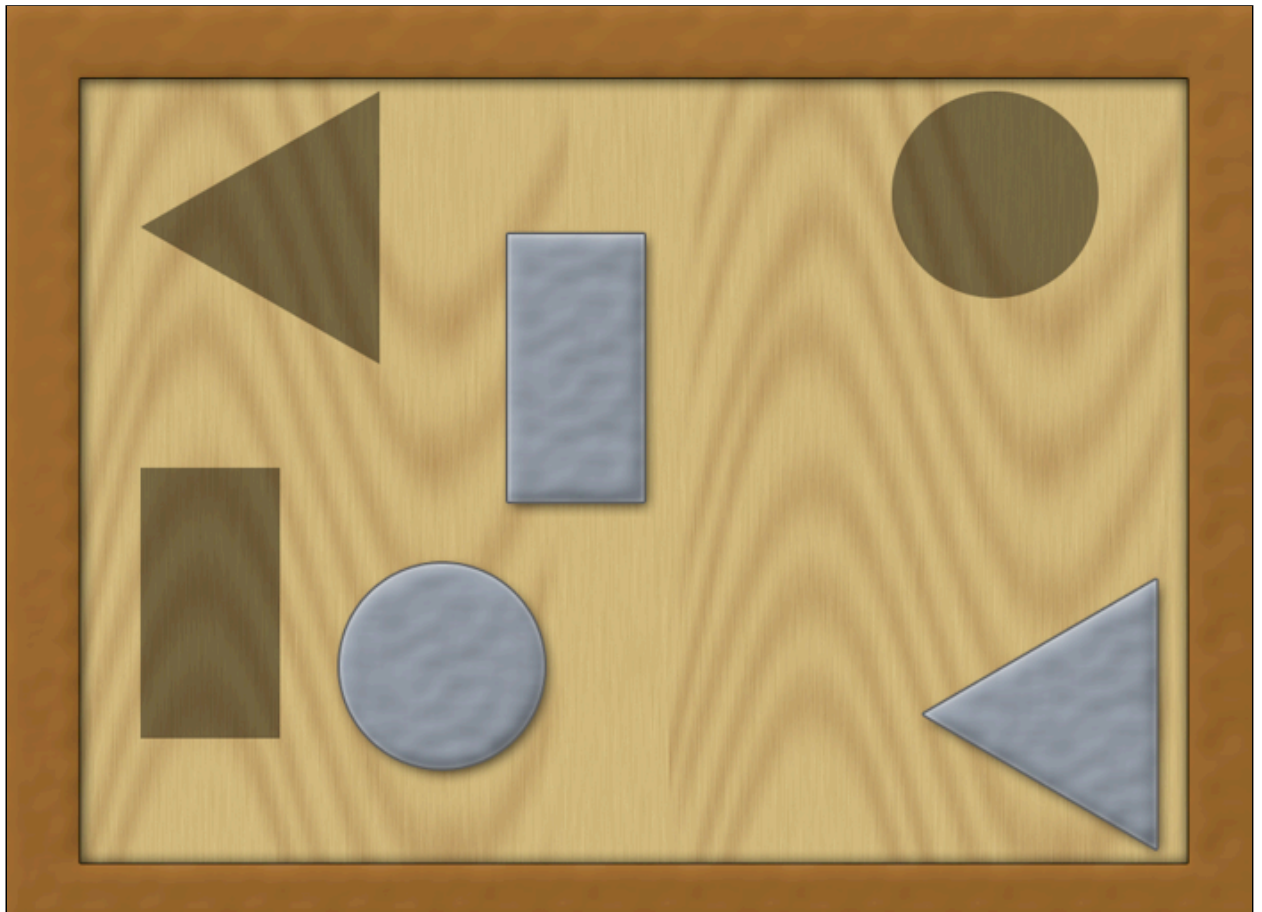
Amino : open source JavaScript and Java scenegraph. GoAmino.org
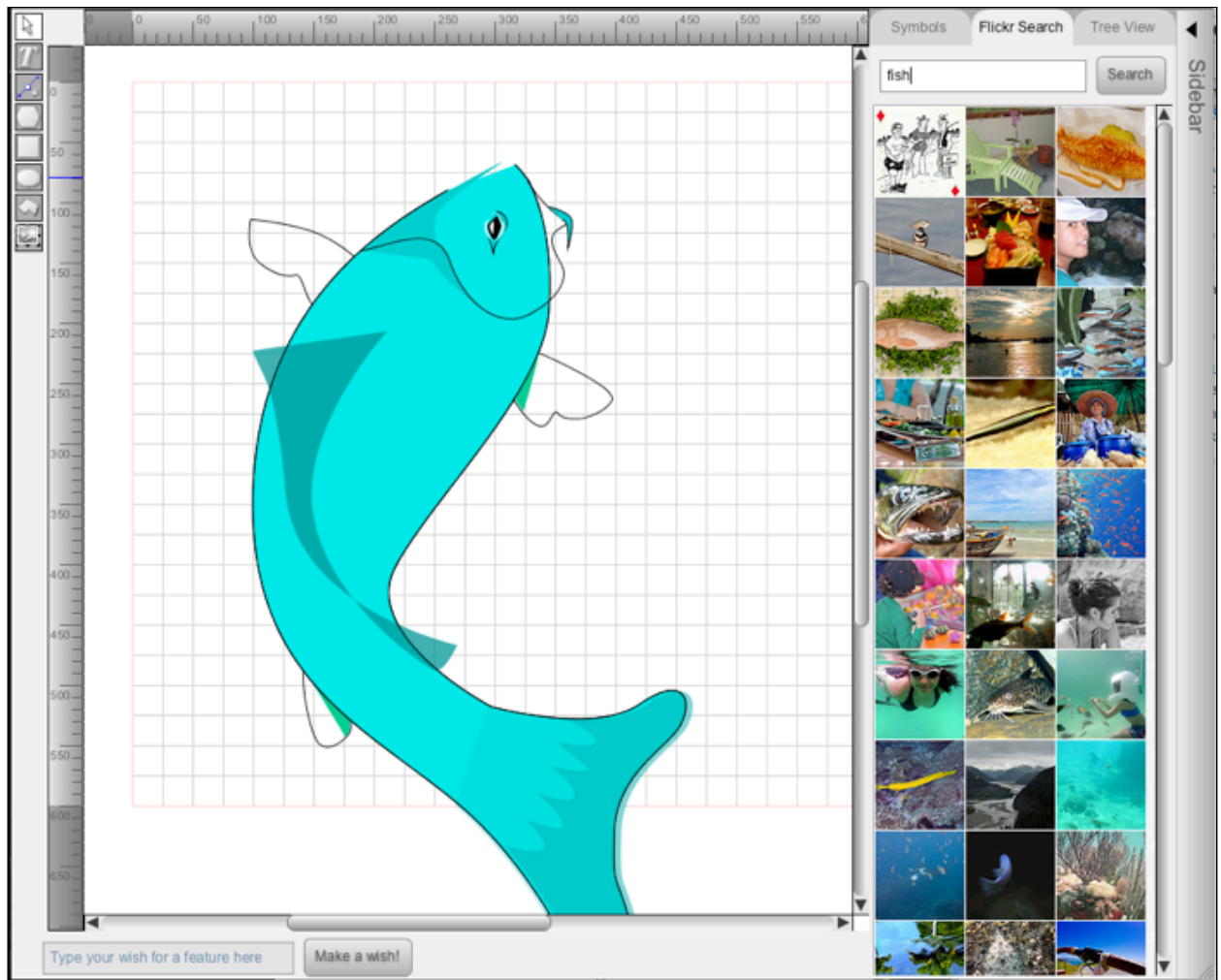
Leonardo Sketch: open source drawing tool which outputs to canvas and Amino code, among other formats. It is extensible and has some neat social features.
LeonardoSketch.org

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