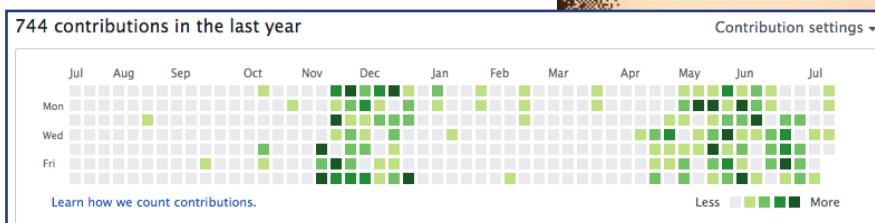
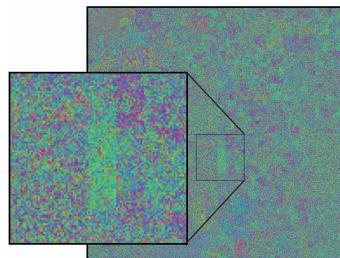


Code Portfolio



Profile Activity Developer Story Edit profile and settings Meta user Network profile

Tomachi top 19% this year

Fullstack Developer at Tomachi Corporation

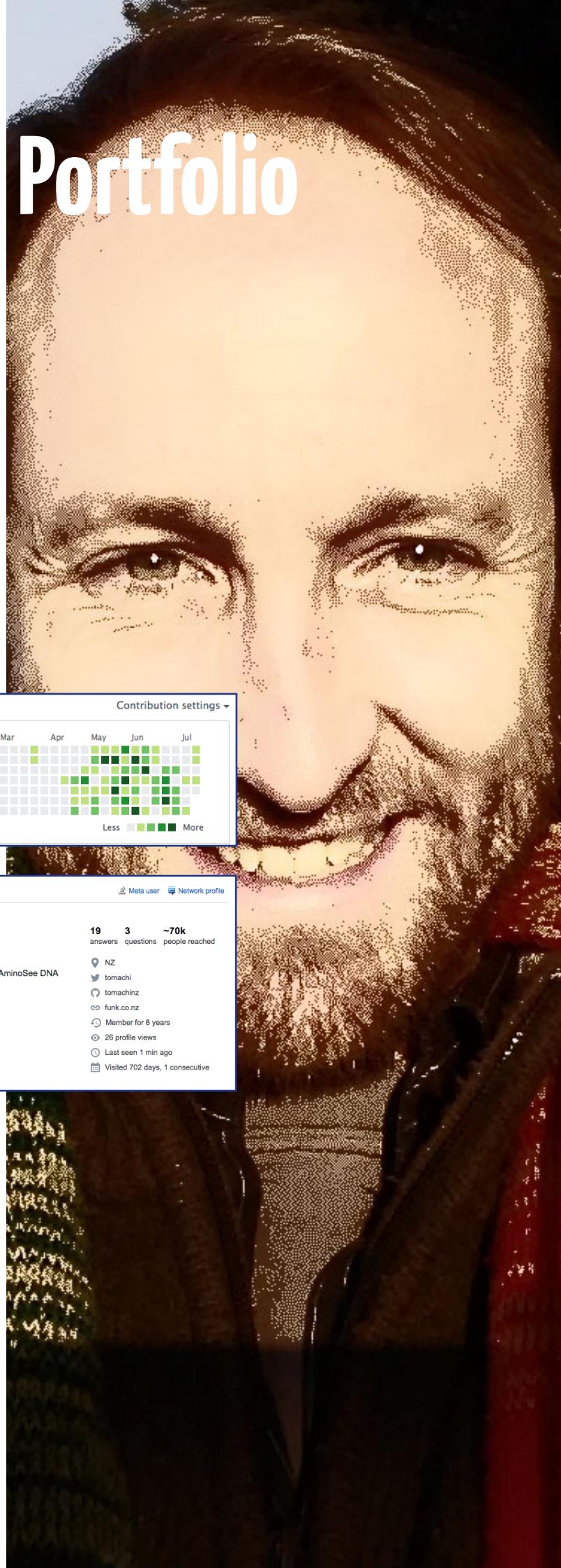
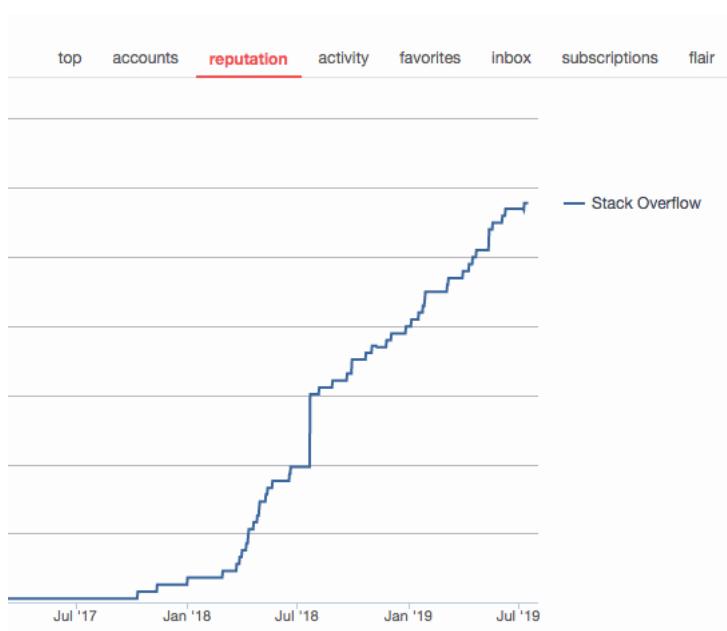
Drummer Composer Producer Designer Coder Inventor of the AminoSee DNA Viewer International Recording Artist "Tomachi"

577 REPUTATION

5 9

19 answers 3 questions ~70k people reached

NZ tomachi tomachinz funk.co.nz Member for 8 years 26 profile views Last seen 1 min ago Visited 702 days, 1 consecutive



Unity Game Development

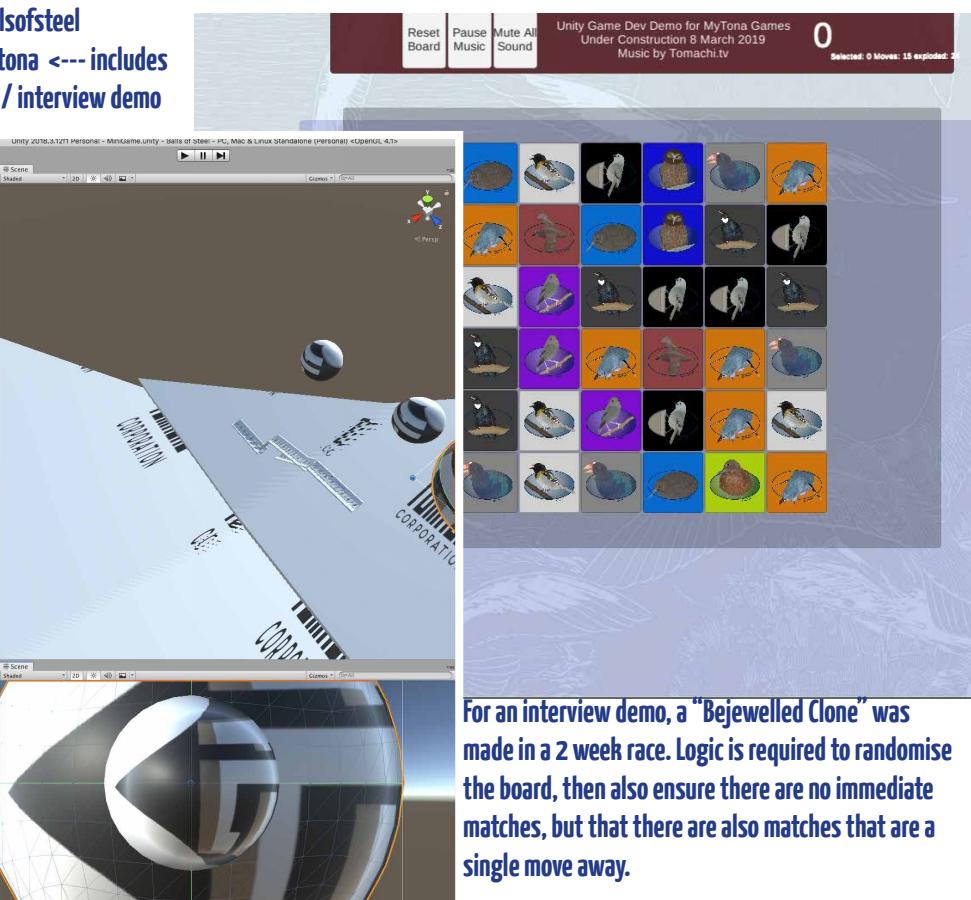
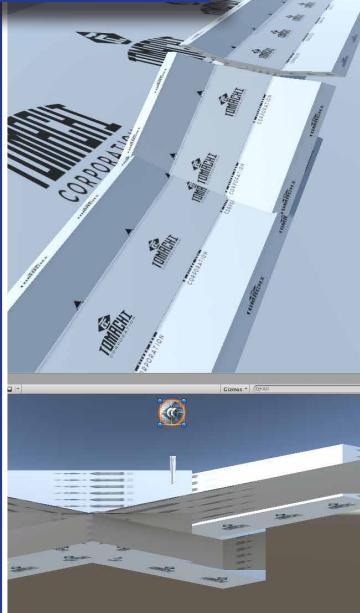
funk.nz/ballsofsteel

funk.nz/mytona <--- includes source code / interview demo

BALLS



OF STEEL



For an interview demo, a "Bejewelled Clone" was made in a 2 week race. Logic is required to randomise the board, then also ensure there are no immediate matches, but that there are also matches that are a single move away.

DNA Science Project

20,000 lines and 744 commits on Github

A screenshot of the AminoSeeNoEvil DNA viewer application. The interface includes a GitHub commit history for the project, a heatmap visualization of a genome, and a text-based sequence viewer. The text viewer displays a DNA sequence with various annotations and a QR code. The overall theme is a "Bejewelled Clone" style.

AminoSeeNoEvil
DNA Viewer by Tom Atkinson - aminosee.funk.nz

The goal: Visually represent an entire genome graphically
...in one shot

744 contributions in the last year

Contribution settings

Less More

July August September October November December January February March April May June July

Mon Wed Fri

Last 1000 recent contributions.

Less More

AC ctttttcattt gtttacata
cctcagcc tccaggagg acg
ttt ggcctcgca 1015628
10156321 ctttcgtctt ccg
tag actgggtctg aactctg
ttccatgtt gttatgccac ca
tctt 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 X Y
tcctt 3981

[Administration - View Filters - Add Filter](http://www.funk.co.nz)
Funk.co.nz / http://www.funk.co.nz / 0 Funk.co.nz (Main)

Edit Filter

Filter Information
Filter Name: Personal Source Rollup
Filter Type: Personalized - Custom

Filters

- Channel Settings
- E-commerce Settings
- Calculated Metrics Beta
- Segments
- Annotations
- Attribution Models
- Custom Channel Groupings
- Custom Alerts
- Scheduled Emails
- Shortcuts

Advanced

Campaign Source: (messagecount(zimbra)~impmail)*.{1,1},12

Field B -> Extract B
Select field: ~ starts with

Output To -> Constructor
Campaign Source: Webmail (\$A2:\$A3)

Case-sensitive

Field A Required
Field B Required
Override Output Field

(messag|courrier|zimbra|~imp|mail)
.*/(.{2,4})|
go\.mail\.ru|promail\.co\.nz|
service\.mail\.com|3c\.web\.de|mail\.live\.com|outlook\.com)

literal dot
logical OR

Output To -> Constructor

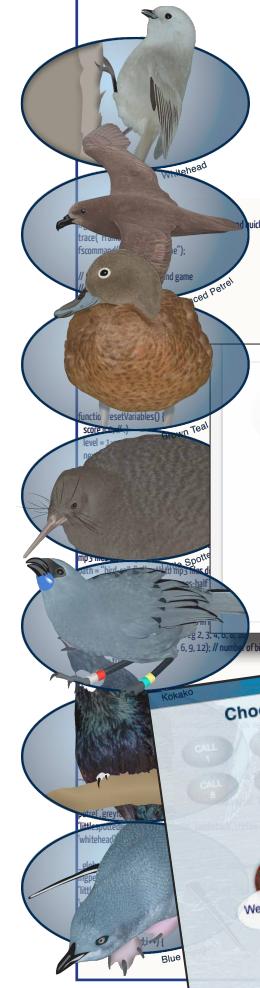
Campaign Source

Webmail (\$A2.\$A3)

obvious web mail keywords in domain
Either mail.whatever.com OR web.de
and some hard-coded cases

Bird Call Memory Game - funk.nz/tiri

Game logic inception and production in Flash ActionScript



John Ringer
Owner, Paradigm Associates Ltd

June 22, 2010, John was a client of Tom's

Paradigm has worked with Tom for a number of years. Recently Paradigm commissioned Tom to develop a children's touch screen game for the Tiritiri Matangi visitor centre, which has been enthusiastically received by visitors to the island. Tom did the job to tight deadlines, did it well, and to a very tight budget. We recommend Tom to anyone looking for solutions to challenging interactive software, in fact pretty well anything you can throw at him. John Ringer, Director, Paradigm Associates Ltd, Auckland

```
eval("s=0");debug = fileNamesArray[-1]; // bird 1 is called "a1"
eval("t=1");bird = fileNamesArray[-1]; // bird 1 is called "a2"
eval("x=0");num = x; // if loop starts from 1
htScoreTable[0] = x; // wipe the highscore table
//eval("a"+i).solved = true; // cheat code
// initialize solved audio buttons
//initialiseSolved();
```

```
}
//eval("BirdsDisplay.b" + imageClicked).bi.bb1.SpeechText.speech
="HowZit";
trace("imageClicked" + imageClicked + "points" + p);
}

function playCorrectBirdSound() {
// PLAY THE AUDIO FOR THE AUDIO BUTTON CLICKED BIRD
eval("a"+i).clicked.movie_sound.start(5); // start from 0, repeat 5 times.
}
```

```
addScore(pointMultiplier * -0.1); // subtract ten points
eval("BirdsDisplay.b" + objectClicked).getAndPlay("wrong");
BirdsDisplayWhichever = "Wrong, choose another";
talkBack.textBox = "Wrong, choose another!";
if (level>1) {
level--;
numnames = levelArray[level];
//line removed
//BirdsDisplay.avreframe(); // self explanatory my man!
```

```
// initialize solved audio buttons
initialiseSolved();
trace("Running level Script");
state = "StarT";
stop();
stopAll();
stopAllSounds();
initialiseSolved();
stop();
//trace(BirdsDisplay.b1.bird);
```

talkBack.text = "Touch the bird that makes this sound!"

```
/ not sure what this does, probably safe to remove
BirdsDisplay.b1.bird = birdArray[0];
BirdsDisplay.b2.bird = birdArray[1];
BirdsDisplay.b3.bird = birdArray[2];
```

```
BirdsDisplay.gotoAndStop(level + 10); // for some weird reason i could figure out why flash wasnt going to my frames labeled "1", "2" and so on so i opted to just use the actual frame numbers, 10 apart, hence the x 10/
```

```
//trace("BirdsDisplay.gotoAndPlay(level); "+ level);
```

```
initialiseSolved();
```

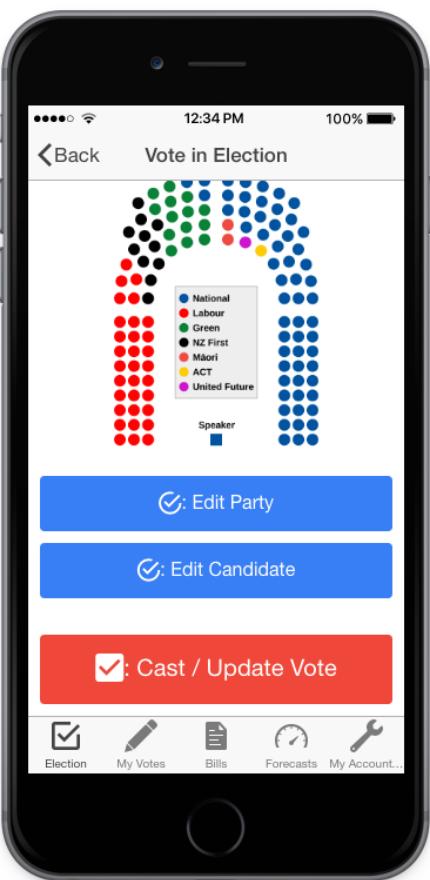
```
gotoAndPlay("level1");
```

```
stop();
```

```
getAndPlay("showBirds");
```

```
function stopAll() {
for (i=1;i<numbirds;i++) {
eval("a"+i).getAndPlay("finito"); // animate button disappear
}
stopAllSounds();
}
```





awaken.guru

Example of rapid app prototype development using the Ionic Creator drafting tool.

64 lines (63 sloc) | 2.23 KB

```

1  {
2    "name": "awaken-direct-democracy",
3    "version": "0.1.6",
4    "description": "This is the functional skeleton / working mock up of a disruptive app to in
5    "keywords": ["direct", "democracy", "open-source", "blockchain", "ethereum"],
6    "license": "Apache-2.0",
7    "repository": {
8      "type": "git",
9      "url": "https://github.com/tomachinz/awaken-direct-democracy.git"
10   },
11   "author": {
12     "name": "Tom Atkinson",
13     "email": "tom@awaken.guru",
14     "url": "https://tomachi.co/"
15   },
16   "scripts": {
17     "build": "ionic-app-scripts build",
18     "watch": "ionic-app-scripts watch",
19     "serve:before": "watch",
20     "emulate:before": "build",
21     "deploy:before": "build",
22     "build:before": "build",
23     "run:before": "build"
24   },
25   "dependencies": {
26     "@angular/common": "^2.0.0",
27     "@angular/compiler": "^2.0.0",
28     "@angular/compiler-cli": "0.6.2",
29     "@angular/core": "2.0.0"
30   }
31 }
```

awaken.guru/docs/replicate (YouTube video)

Listen to Tom explain how to clone the Ionic Creator project. Get a feeling for his command of the Mac OS terminal and his home dev environment.

How to replicate the Awaken Ionic wireframe



Run on your desktop

To install and get this serving locally, first [Install Ionic](#), then use this command at the prompt:

```

ionic start awaken-wireframes creator 1039bf0d8e2f
cd awaken-wireframes
ionic setup sass
Ionic serve

```

Then visit <http://localhost:8100> in your web browser to see the web app running on your local machine complete with database and all.



Welcome to **The Funk!**
Media design portfolio of the one like TOMACI
Drummer Composer Producer Designer Coder

Current bands:

Upcoming Gigs - Auckland Music Update
Band Friendly Storage Units and Practice Space
Auckland

Quick Garage Sale Before Moving

New instrumental self-leak: Skanky Funk non-mix

Previous bands...

Subscribe!!
email address
Subscribe

Youtube.Funk.NZ

```

<!DOCTYPE html>
<html>
<head>
<title>Funk NZ - Portfolio of Tom Atkinson, Tomachi, session drummer in Auckland</title>
<link rel="shortcut icon" href="favicon.ico">
<meta name="description" content="View Upcoming Gigs, Subscribe to Auckland Music Update gig guide, read The Funk blog and see my current bands."/>
<meta name="viewport" content="width=device-width, initial-scale=1">
<meta property="og:title" content="Funk.NZ - Portfolio of Tom Atkinson, Tomachi, drummer for The Trionites, Dam Native, Tomachi Corp."/>
<meta property="og:type" content="website"/>
<meta property="og:url" content="http://www.funk.co.nz"/>
<meta property="og:image" content="http://www.funk.co.nz/images/nav/funk-logo-3-glowing-120px.gif"/>
<meta property="og:site_name" content="Funk NZ - home of Tomachi Corp, drummer for The Trionites, Dam Native, Tomachi NZ"/>
<meta property="fb:admins" content="tomachinz">
<meta property="fb:page_id" content="136739013065213">
<meta property="og:description" content="Funk NZ - home of Tomachi Corp, drummer for The Trionites, Dam Native, Tomachi NZ"/>
<script type="text/javascript">
WebFontConfig = {
  google: { families: [ 'Lobster:latin', 'LobsterTwo:latin', 'YanoneKaffeesatz:latin' ] }
};
(function() {
  var wf = document.createElement('script');
  wf.src = 'https://ajax.googleapis.com/ajax/libs/webfont/1/webfont.js';
  wf.type = 'text/javascript';
  wf.async = 'true';
  var s = document.getElementsByTagName('script')[0];
  s.parentNode.insertBefore(wf, s);
})()
</head>
<body>
  <!-- WASSUP NICE TO SEE YOU. ALL YOUR BASE ARE BELONG TO US.
  etag is a crc32 blog content: "1500275137-1300196226" - Band Friendly Storage Units and Practice Spaces in Auckland -->
  <div style="background-color: black; color: white; padding: 5px; font-family: monospace; font-size: 0.9em; margin-bottom: 10px; border-radius: 10px; background-clip: padding-box; border: 1px solid #ccc; opacity: 0.8; white-space: nowrap; word-wrap: nowrap; overflow: hidden; text-overflow: ellipsis; display: inline-block; width: 100%; height: 100%; vertical-align: top; ">
    <!-- Main Content Area -->
    <div style="margin-top: 10px; padding: 0px; border: 1px solid #ccc; border-radius: 5px; background-color: #f0f0f0; width: 100%; height: 100%; position: relative; ">
      <div style="background-color: black; color: white; padding: 5px; font-family: monospace; font-size: 0.9em; margin-bottom: 10px; border-radius: 10px; background-clip: padding-box; border: 1px solid #ccc; opacity: 0.8; white-space: nowrap; word-wrap: nowrap; overflow: hidden; text-overflow: ellipsis; display: inline-block; width: 100%; height: 100%; vertical-align: top; ">
        <!-- Left Sidebar -->
        <div style="background-color: black; color: white; padding: 5px; font-family: monospace; font-size: 0.9em; margin-bottom: 10px; border-radius: 10px; background-clip: padding-box; border: 1px solid #ccc; opacity: 0.8; white-space: nowrap; word-wrap: nowrap; overflow: hidden; text-overflow: ellipsis; display: inline-block; width: 100%; height: 100%; vertical-align: top; ">
          <!-- Right Side Panel -->
        </div>
      </div>
    </div>
  </div>
  <!-- End Main Content Area -->
  <div style="position: absolute; top: 0; right: 0; width: 100px; height: 100px; background-color: black; color: white; font-family: monospace; font-size: 0.8em; padding: 10px; border-radius: 10px; border: 1px solid #ccc; opacity: 0.8; white-space: nowrap; word-wrap: nowrap; overflow: hidden; text-overflow: ellipsis; display: inline-block; vertical-align: middle; ">
    <img alt="Funk logo" style="width: 100%; height: 100%; border-radius: 10px; border: 1px solid #ccc; opacity: 0.8; white-space: nowrap; word-wrap: nowrap; overflow: hidden; text-overflow: ellipsis; display: inline-block; vertical-align: middle; ">
  </div>
</body>

```

funk.co.nz/amoeba (AWT Java Applet)

Artificial Life simulator written as a Java applet
Done as part of Auckland University Computer Science paper

Amoeba

```

An Artificial Life Simulator!
Written by Tom Atkinson
funk.co.nz
/* This is a Java application.
 * It runs in a window. To start it up, click the window.
 */
import java.awt.*;
import java.applet.Applet;
import java.util.*;
import java.awt.*;
import java.awt.event.*;

public class Amoeba extends Applet implements Runnable
{
  // Program Variables:
  static int width, height, cycles, toxic, dx, dy, herbGestCount,
  clock, magni, digest, metabolism, childHealth, divisionTax,
  frameSkip, alPop, hPop, aWeight, hWeight, alHealth, hHealth;
  // GUI Variables:
  static int slideHeight, lifePlaneOffset, lifePlaneOffsetLeft,
  numSliders, screenHeight, screenWidth, sleepCount, sleepCount, offset3D,
  static boolean verbose = false;
  static boolean fertile = false;
  static boolean needClock = false;
  static boolean needsArrayChange = false;
  static boolean isShooting = true;
  static boolean isFinished = false;
  static boolean isIMode = false;
  static boolean hasExploded = false;
  static int[] cell;
  static int[] seasonalLimits = { 40, 41 }; // Point at which fertile reverses.

  // Temporary:
  static String sentence, temp, status; // status is the browser status bar.
  static int tmp;

  static long ctm; // System.currentTimeMillis()
  static long drawTime; // Time for drawLifePlane in Millis.
  static long growTime; // Time for growLife in Millis.

  //----- GUI DECLARATIONS
  Panel p = new Panel();
  static int panelWidth;
  Color col = new Color( 0, 0, 0 );
  GridBagLayout gridbag = new GridBagLayout();
  GridBagConstraints c = new GridBagConstraints();

  public void amoebaPause() {
  //----- PAUSE
  System.out.println("*** Trying to Pause...");
  running = false;
  pauseBut.setEnabled( "Resume" );
  statsClock.suspend();
  } // end of amoebaPause

  public void amoebaResume() {
  //----- RESUME
  System.out.println("*** Trying to start up again...");
  running = true;
  pauseBut.setEnabled( "Pause" );
  statsClock.resume();
  } // end of amoebaResume

  public void amoebaSize() {
  //----- CHANGING THE SIZE
  System.out.println( "Changing the life array size..." );
  int z = 6; // the smallest dimension allowable.
  if ( y < z ) y = z;
  if ( x < z ) x = z;

  int[][] tempCell = new int[ x ][ y ];
  int q;

  System.out.println(
    "Old Size: " + width + ", " + height + "\r" +
    "New Size: " + x + ", " + y );
  for ( int ax = 0; ay < y; ay++ ) {
    for ( int ax = 0; ax < x; ax++ ) {
      q = 0;
      if ( ( ax < width - 1 && ay < height - 1 ) ||
           ( ax > width - 2 && ay > height - 2 ) )
        q = cell[ ax ][ ay ];
      tempCell[ ax ][ ay ] = q;
    }
  }
  tempCell[ 2 ][ 2 ] = 1; // Seed it just in case.
  cell = tempCell;
  width = x;
  height = y;
  fixSize();
}
  
```

This is the gnarliest piece of triple-system glue-code I wrote for The Rock Factory powers the Zapier "code-free" business automation platform. It syncs users between their WordPress WooCommerce site, to Zapier, and over to CurrentRMS CRM and Google docs.

Summer to Autumn 2020 :: The Rock Factory Seasonal Report

Sennheiser MKE-600
<https://en-nz.sennheiser.com/mke-600>

Wednesday 29 January

New record: Two Zaps in one day! Google + Woo User Zap

Google form zapier has been tidied up. Using "message" seems to crash things, due to line break. The new LIVE zap code is:

```
{"member":{"name":"{{76781250_COL$K}} - {{76781250_COL$D}}/{{76781250_COL$J}}","description":"Used Google Form \n your message \n 76781250_COL$C Google form line breaks are CRASHING import - Tomachi \n timestamp \n {{76781250_COL$A}} in preferred contact \n {{76781250_COL$F}} \n how find us? \n {{76781250_COL$G}} \n best describes event? \n {{76781250_COL$H}} \n best time? \n {{76781250_COL$I}} \n update of event \n {{76781250_COL$L}} \n supplementary \n {{76781250_COL$M}} \n google sheet row \n {{76781250_row}} \n , row ID{{76781250_id}}","membership_type":"Organisation","tag_list":["Tomachi_Integration"],"lawful_basis_type_id":100001,"lawful_basis_type_name":"Requested Quote","membership":{"rating":1,"owned_by":1}, "emails":[{"address":"{{76781250_COL$B}}","email_type_name":"Work"}], "phones":[{"number":"{{76781250_COL$E}}","phone_type_name":"Work"}], "links":[{"address":"https://therockfactory.net/","link_type_name":"Website"}], "child_members":[],"parent_members":[]}}
```

Live New Woo User Zap code...

```
{"member":{"name":"{{76771470_billing_company}} - {{76771470_first_name}} {{76771470_last_name}}","description":"Used WooCommerce Request Quote and created website WPID {{76771470_id}} and WP username {{76771470_username}}\nWP first {{76771470_first_name}}\nWP last {{76771470_last_name}}\nemail {{76771470_email_address}}\nphone {{76771470_billing_phone}}\nshipping address 1 {{76771470_shipping_address_1}}","membership_type":"Organisation","tag_list":["Tomachi_Integration"],"lawful_basis_type_id":100001,"lawful_basis_type_name":"Requested Quote on Website"}}
```