

Matthew Brennan Jones' Portfolio

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<https://github.com/workhorsy>

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py-cpuinfo (Free Open Source Software)

A module for getting CPU info with Python 2 & 3

Py-cpuinfo gets CPU info with pure Python. It should work without any extra programs or libraries, beyond what your OS provides. It does not require any compilation(C/C++, assembly, et cetera) to use. It runs on Linux, OSX, Windows, BSD, Solaris, Cygwin, and Haiku.

```
1 import cpuinfo
2
3 # Have the library pick the best method for getting your CPU info
4 info = cpuinfo.get_cpu_info()
5
6 # Print some CPU values
7 print('Vendor ID', info['vendor_id'])
8 print('Brand', info['brand'])
9 print('Hz', info['hz'])
10 print('Arch', info['arch'])
11 print('Bits', info['bits'])
12 print('Count', info['count'])
13 print('Flags:', info['flags'])
14
```

The website can be seen at:

<https://github.com/workhorsy/py-cpuinfo>

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Raise build tool *(Free Open Source Software)*

Raise is a small build automation tool that ships with your software. It is written in Python and can build C, C++, C#, D, and Java programs on Linux, OSX, Windows, BSD, Solaris, Cygwin, and Haiku.

Raise - A build automation tool - Mozilla Firefox

Raise - A build automation...

workhorsy.org/raise/#start

Google

Raise is a small build automation tool that ships with your software.

[Start](#) [Why](#) [News](#) [Install](#) [Doc](#) [Launchpad](#)

Getting started: Tour 1 of 7 [Prev](#) [Next](#)

The philosophy of Raise is that it says what it is doing. Not how it is doing it. It only shows the details when something goes wrong. That way the build output does not fill with information you don't need. It shows the output for each step of the build process, as its own line.

```
$ ./raise build
Running target 'build'
Removing binaries 'main' ...
Building C program 'main.exe' ...
Running C program ...
./main.exe
Hello World!
```

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The website can be seen at:

<https://workhorsy.github.io/raise/>

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Dynamic Sciences Company Website (Created for Dynamic Sciences International Inc.)


Company website created with the Ruby on Rails web development framework and the PostgreSQL database. The site includes product information, shows visitors their local representatives, and has a customer support system.

The screenshot shows a Mozilla Firefox browser window displaying the website for Dynamic Sciences International, Inc. The address bar shows the URL http://dynamicsciences.com/client/show_product/7. The website header features the company logo and the tagline "Performance Measurements". A navigation menu includes links for Home, Products, News, Support, Corporate Information, Careers, and Contact. The main content area is titled "Products" and lists categories: EMI, TEMPEST, Surveillance, and Accessories. Under the EMI category, three products are listed: DSI-2020, DSI-600, and DSI-600-4. The DSI-600 product is highlighted, and its details are shown below. The product image is a black and silver EMI Test Measurement Receiver System. The text describes it as a step into the future of fully compliant test equipment, highlighting its on-board computer, high-speed data acquisition, enhanced spectrum analyzer display, and DSII's EMIT software. The product is an all-in-one multi-functional resource that provides fast and accurate test results and reports. The "Features" section lists: Frequency Ranges of Operation to 2, 4, 12.5, 26.5 & 40 GHz; State-of-the-Art Receiver Measurement Accuracy; EMI Test Suites fully compliant to CISPR 16-1, FCC, ANSI, DO-160, EN, MIL-STD-461; and Simultaneous detection modes: peak, quasi-peak, average, RMS. To the right, there is a "Find a Representative" section with a link to contact a sales representative, and a "Product Announcements" section with a bullet point about the release of the DSI-600-12.

Products

- EMI
 - DSI-2020
 - DSI-600
 - DSI-600-4
- TEMPEST
- Surveillance
- Accessories

DSI-600



The DSI 600 EMI Test Measurement Receiver System is a step into the future of fully compliant test equipment. The powerfully integrated receiver technology provides the user with the combined computational strength of the on-board computer, high speed data acquisition, enhanced spectrum analyzer display, and DSII's EMIT software. The DSI-600 is an all-in-one multi-functional resource that provides fast and accurate test results and reports.

Features

- Frequency Ranges of Operation to 2, 4, 12.5, 26.5 & 40 GHz
- State-of-the-Art Receiver Measurement Accuracy
- EMI Test Suites fully compliant to CISPR 16-1, FCC, ANSI, DO-160, EN, MIL-STD-461
- Simultaneous detection modes: peak, quasi-peak, average, RMS

Find a Representative

Looking for information about a product not contained on the site or looking to demo a product? Contact a sales representative:

- Domestic
- International

Product Announcements

- **DSI-600-12 Released** DSII is proud to announce the release of the DSI-600-12. The DSI-600-12 features a frequency range of 20Hz to 12.5GHz.
- **Application Notes Available** A variety of application notes are now available for the DSI-600. Topics include cable loss, preamplifiers, track, and more. Application notes can be downloaded by scrolling down to the downloads section and clicking the "View" link.

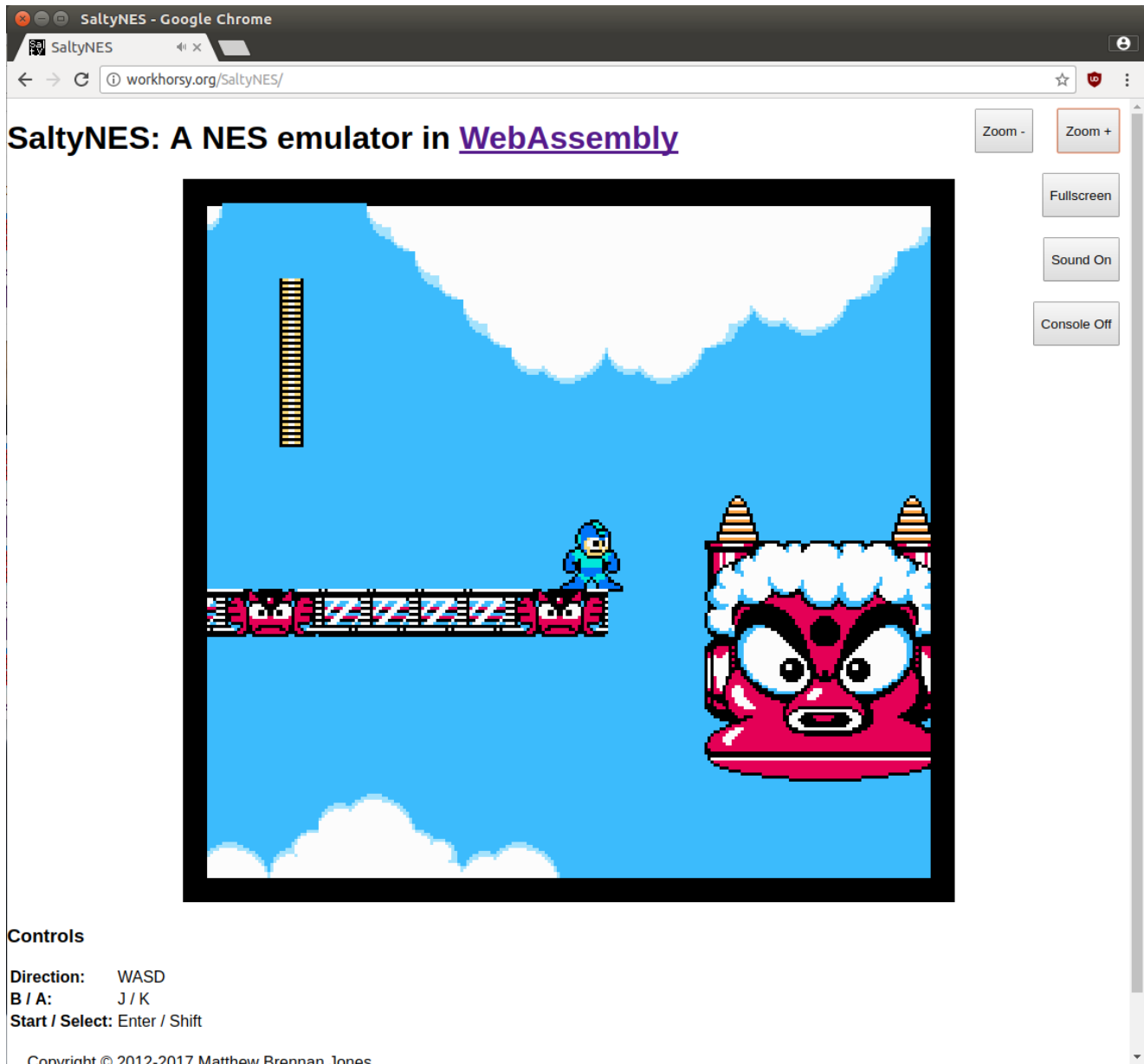
The website can be seen at:

<http://www.dynamicsciences.com>

© 2006 - 2007 Dynamic Sciences International Inc.

SaltyNES *(Free Open Source Software)*

SaltyNES is a Nintendo emulator that runs in the browser using WebAssembly. It is written in C++, and a fork of the Java emulator VirtualNES.



The website can be seen at:

<https://github.com/workhorsy/SaltyNES>

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© 2006 - 2012 Jamie Sanders from <http://virtualnes.com>

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Dscanner (Free Open Source Software)

A static analyzer for the D programming language.

I've added checks for unused variables, name clashes, duplicate attributes, size_t conversion errors, invalid string formats, and a test suite.

```
1
2
3 import std.stdio;
4
5 void thing()-{
6 }
7
8 int main()-{
9   → int thing;
10
11  → return 0;
12 }
13
```

```
matt@ubuntu1404:~/Dscanner$ ./dscanner --styleCheck example.d
example.d(9:6)[warn]: The variable 'thing' clashes with the function at (5:6).
example.d(9:6)[warn]: Variable 'thing' is not used.
matt@ubuntu1404:~/Dscanner$
```

The website can be seen at:

<https://github.com/dlang-community/D-Scanner>

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BDD *(Free Open Source Software)*

Behavior Driven Development for the D programming language

```
import BDD;

int add(int a, int b) {
    return a + b;
}

unittest {
    describe("math#add",
        it("Should add positive numbers", delegate() {
            add(5, 7).shouldEqual(12);
        }),
        it("Should add negative numbers", delegate() {
            add(5, -7).shouldEqual(-2);
        })
    );
}

// Prints the results of the tests
int main() {
    return BDD.printResults();
}
```

The website can be seen at:

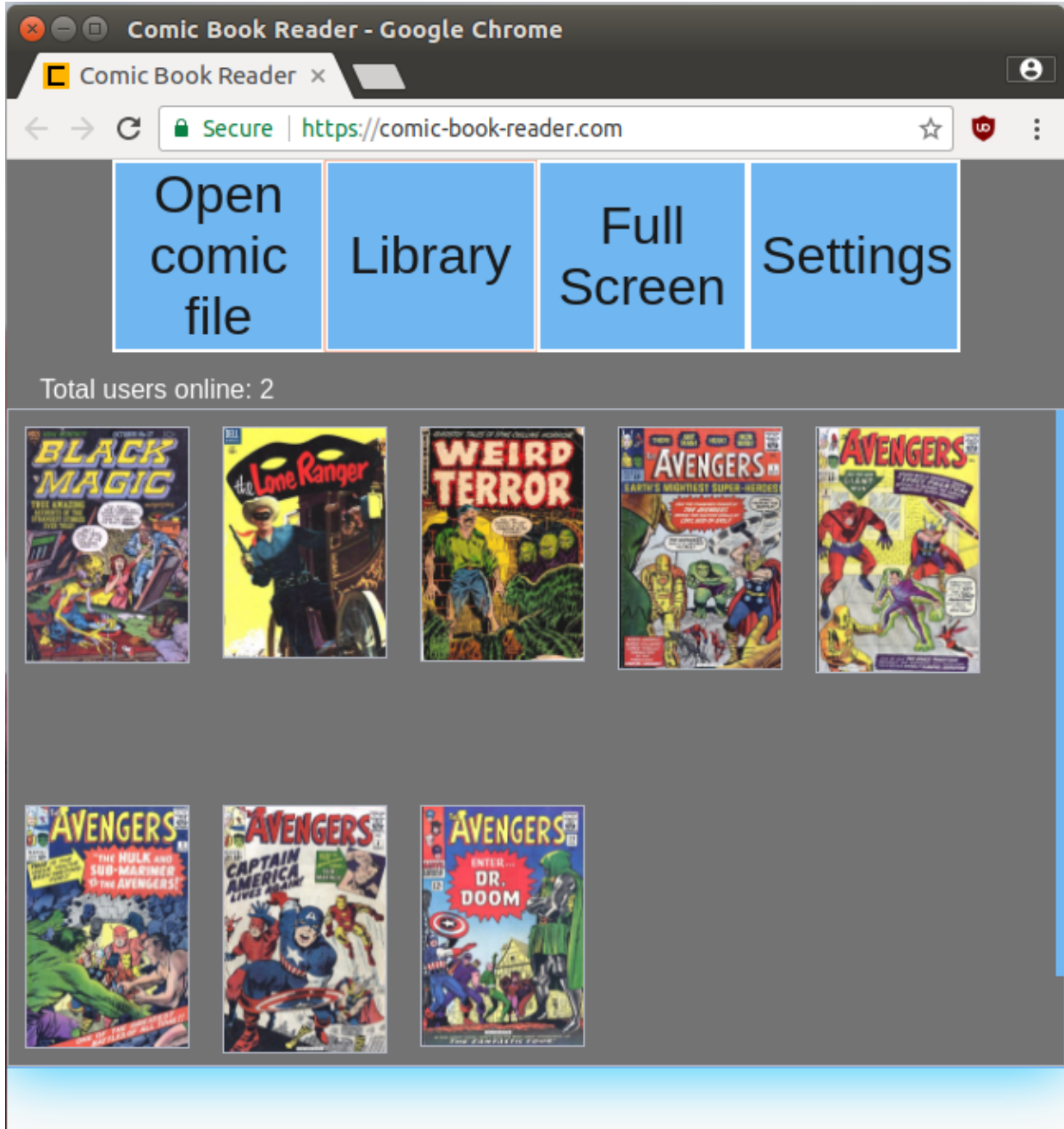
<https://workhorsy.github.io/BDD/>

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Comic Book Reader (Free Open Source Software)

A **HTML5 JavaScript touch friendly comic book reader**. It supports CBR, CBZ, CBT, EPUB, and PDF files.



The website can be seen at:

<https://comic-book-reader.com/>

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D IO Helper (Free Open Source Software)

An asynchronous non-blocking IO library for the D programming language. It includes functionality for files, sockets, intervals, timeouts, and http. It is very similar to Node.js.

```
import dlang_helper;
import dio_helper;

int main() {
    http_server(3000, delegate(HttpRequest request, HttpResponse response) {
        // Write the response
        response.write("HTTP/1.0 200 OK\r\nContent-Length: 12", "Hello World!");
    }).on_start(delegate(Fail fail, ushort port) {
        std.stdio.writefln("Server running at http://127.0.0.1:%d ...", port);
    });

    return 0;
}
```

The website can be seen at:

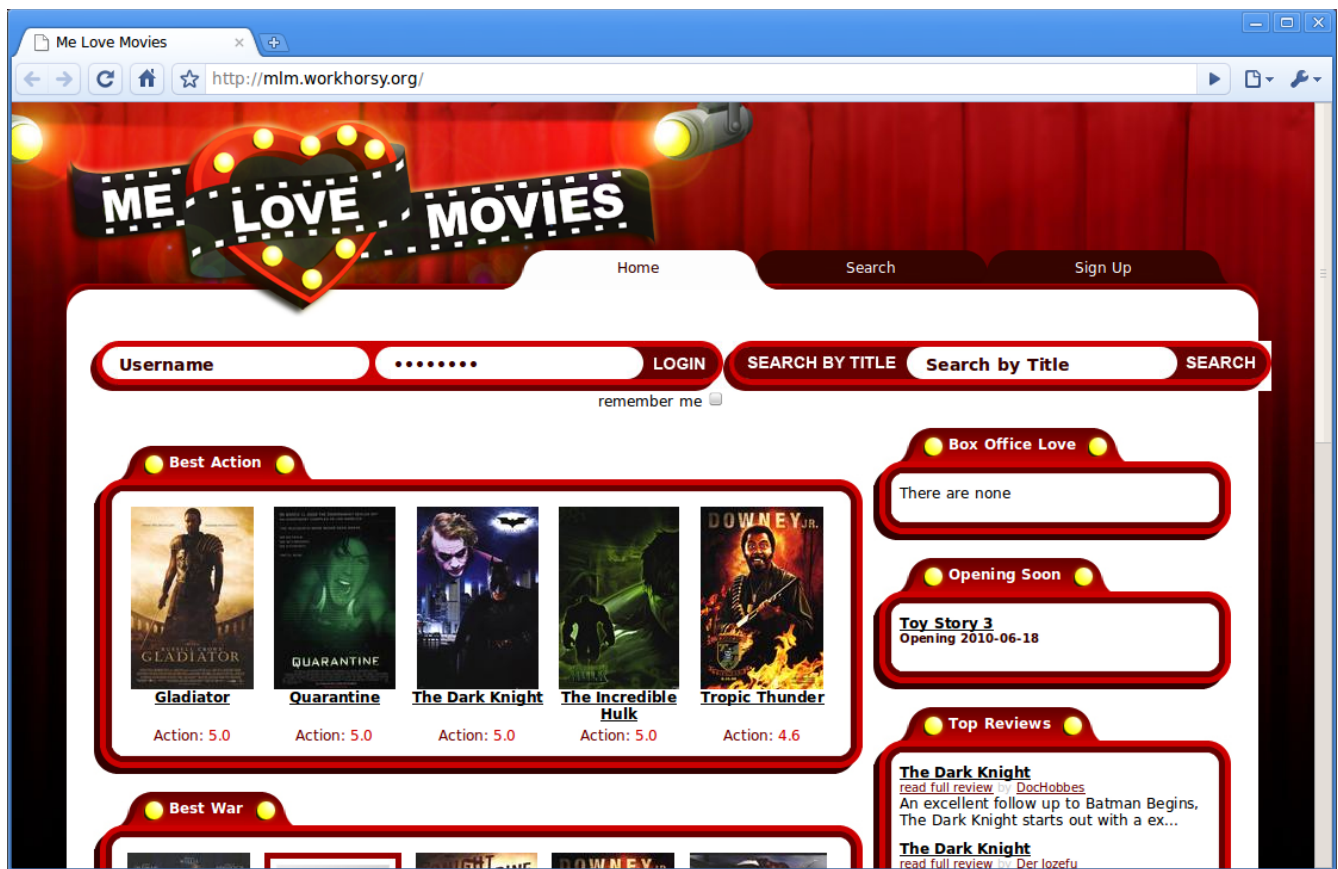
<http://workhorsy.org/diohelper>

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Me Love Movies Website (Created for <http://border7.com>)

A social movie rating website, with over 10,000 titles. It was written in Ruby on Rails, and uses page caching for better performance. Movie information is automatically scraped from Wikipedia using Hpricot and Mechanize. Movie posters can also be purchased from movieposter.com.



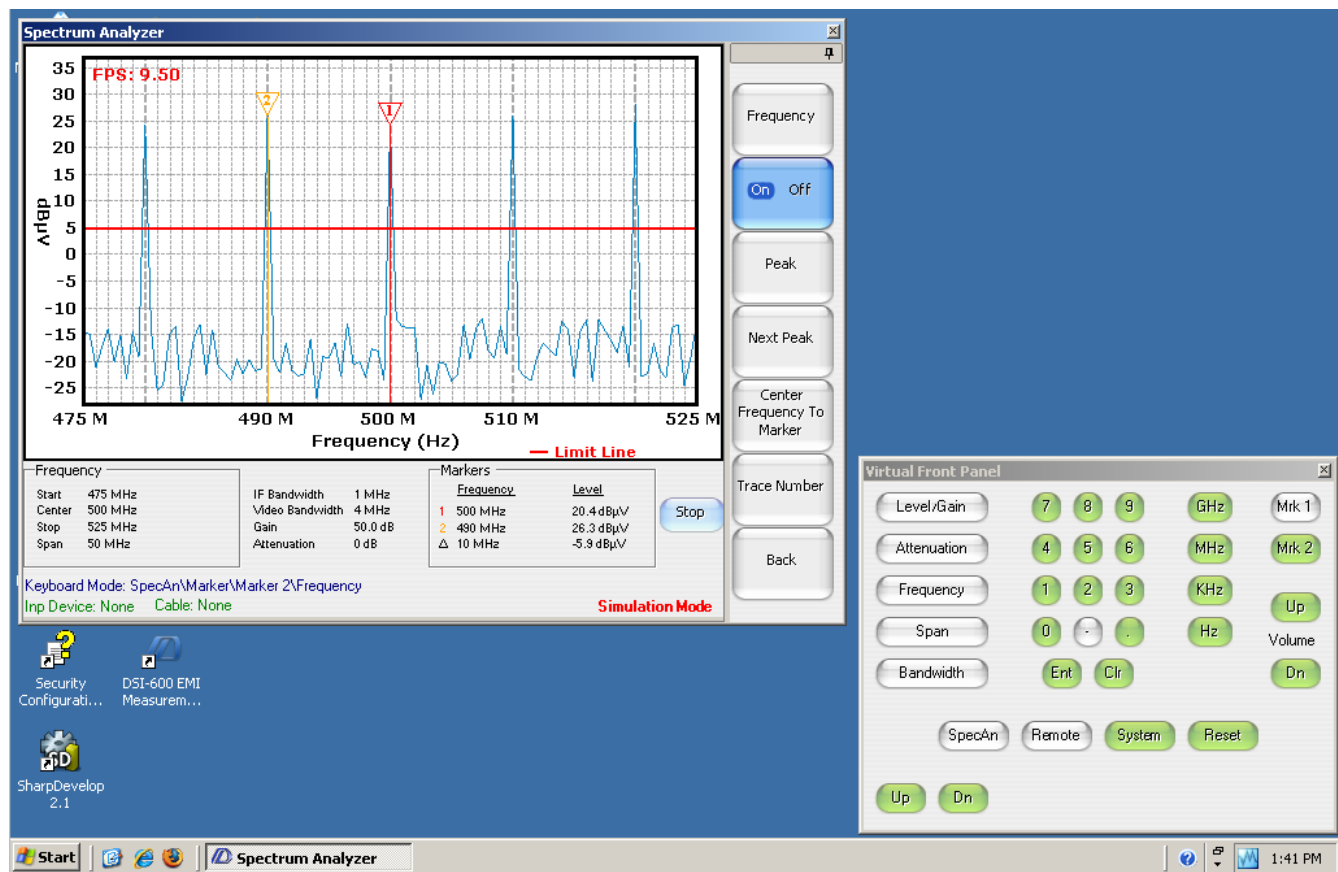
https://github.com/workhorsylegacy/me_love_movies

© 2008 - 2010 Matthew Brennan Jones. Design by Border7 Studios. <http://border7.com>

All information on Me Love Movies, except for user information, is licensed under the [GNU Free Documentation License](#)

Dynamic Sciences Application Suite (Created for Dynamic Sciences International Inc.)

Software that drives EMI and TEMPEST radio receivers using C#, C++, and Managed C++, with the .NET Framework and Win32API. This includes a spectrum analyzer and sweep, with modes for testing against FCC, military, and EU standards.



No demo of the software is available for download as it is licensed under a commercial license. More information about this software is available at the company website:

<http://dynamicsciences.com>

Castlevania: No Rhapsody for the Weak *(Free Open Source Software)*

A game demo written in Visual Basic 6 and the Win32 API. The game includes multi layered backgrounds, pixel-perfect collision detection, and includes characters with hundreds of frames of animation. Artwork and gameplay elements are from the Playstation game 'Castlevania: Symphony of the Night'.



The source code and executables can be downloaded from:

<http://workhorsy.org/portfolio/source/Castlevania.zip>

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py-osinfo (Free Open Source Software)

A module for getting the OS type, brand, release, and kernel with Python 2 & 3

Py-osinfo should work without any extra programs or libraries, beyond what your OS provides. The goal is for this to work on every OS that Python supports. It runs on Linux, OSX, Windows, BSD, Solaris, Cygwin, and Haiku.

```
1 import osinfo
2
3 os_type, os_brand, os_release, os_kernel = osinfo.get_os_info()
4
5 if os_type in osinfo.OSType.Linux:
6     print("Looks like you're using Linux.")
7
8     if os_kernel < (3, 13, 1):
9         print("Your kernel is too old!")
10
11
```

The website can be seen at:

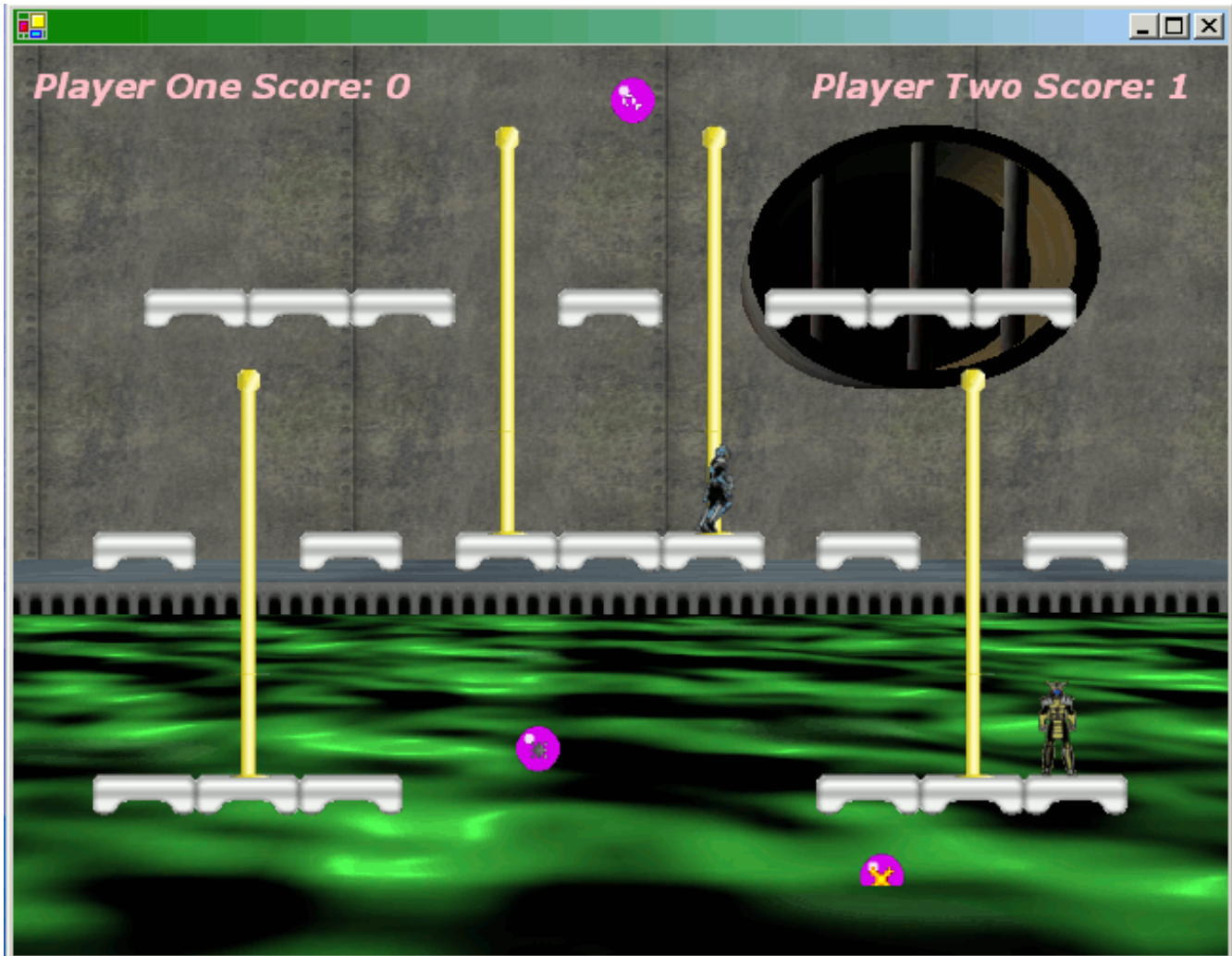
<https://github.com/workhorsy/py-osinfo>

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Project Goo: DeVry University Senior Project (Free Open Source Software)

A game written in C# and Managed DirectX. Two players can battle each other using gamepads or keyboards over the network. It uses advanced lighting and pixel shading for the goo and background. This project also won the Dean's Award for Excellent Senior Project.



The source code and executable can be downloaded from:

<http://workhorsy.org/portfolio/source/ProjectGoo.zip>

Requires the Microsoft DirectX SDK April 2006 to run. Caution the file is 390 megabytes:

http://workhorsy.org/portfolio/installs/dxsdk_apr2006.exe

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