

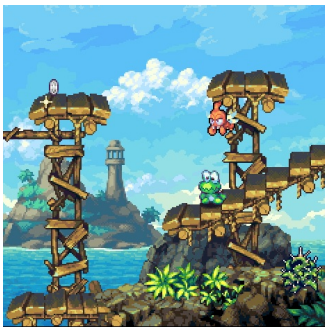
# David Roberts

Software Engineer & Designer

ddr0.github.io - 778-875-7869

## Work

### Frogatto & Friends



**Behaviour, design, and utilities** for the open-source platformer Frogatto and Friends. Created core scripting math libraries. Coded and designed enemy and NPC behaviours. Wrote HTML and CSS for the website and maintained the WordPress installation. Frogatto 1.3 was released in 2012, and has sold well since version 1.0 was released in 2009. It was a launch title for the Blackberry Playbook.

Website: [www.frogatto.com](http://www.frogatto.com)

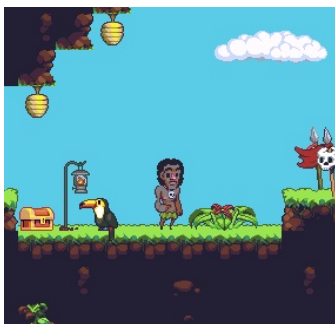
### Cube Trains



**Created** Cube Trains, a volumetric puzzle game. This involved making art assets, sound effects, scripting, C++ engine modification, Bash tooling, and an entire UI system (with 3D editor). Designed, implemented, and tested between 2011 and 2012. I made the website from scratch using a combination of HTML5, CSS, and Javascript.

Website: [cubetrains.com](http://cubetrains.com)

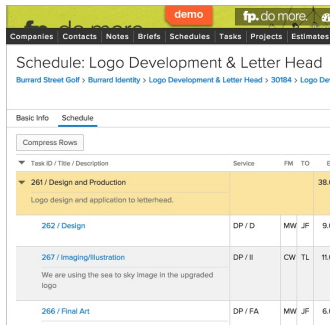
### Open Pixel Platformer



**Technical Direction** for the Open Pixel Platformer project. Our goal is to create an art set which can be used to bootstrap any platformer. I am the sole programmer involved with the project, creating a reference implementation and supplying technical advice.

Website: [opp.opengameart.org](http://opp.opengameart.org)

## Function Point



The screenshot shows the Function Point software interface. At the top, there's a navigation bar with links like 'Companies', 'Contacts', 'Notes', 'Briefs', 'Schedules', 'Tasks', 'Projects', and 'Estimates'. Below this, the title 'Schedule: Logo Development & Letter Head' is displayed. A breadcrumb trail shows the path: 'Burnard Street Golf > Burnard Identity > Logo Development & Letter Head > 30184 > Logo Design'. The main content area has a 'Basic Info' tab selected. Below it, there's a 'Compress Rows' button. A table lists tasks with columns for 'Task ID / Title / Description', 'Service', 'PM', 'TO', and 'E'. The tasks are: 261 / Design and Production (Logo design and application to letterhead), 262 / Design (DP / D, MW, JF, 9.0), 267 / Imaging/Illustration (DP / I, CW, TL, 11.0), and 266 / Final Art (DP / FA, MW, JF, 6.0).

Task ID / Title / Description	Service	PM	TO	E
261 / Design and Production Logo design and application to letterhead.				38.0
262 / Design	DP / D	MW	JF	9.0
267 / Imaging/Illustration We are using the sea to sky image in the upgraded logo.	DP / I	CW	TL	11.0
266 / Final Art	DP / FA	MW	JF	6.0

**Engineering** Function Point, an online office management tool. Function Point allows you to manage your staff and your projects together, so you can easily see where you are making your money. It currently is used by over 500 agencies across the world. My job is mainly Javascript/HTML5 development, but I also do some Bash scripting as well as fixing bugs in our PHP codebase.

Website: [functionpoint.com](http://functionpoint.com)

## Languages

HTML 5, Javascript, Python, Bash Script, C++, CSS, Less, Sass, Haml, PHP, Erlang, Java, JSON, XML, POV-Ray Scene Markup, True Basic, AHK, SQL, various wiki syntaxes and other languages. Familiar with Git, Anura, Bash, Node.js, MS Office, Blender3D, Gimp and other tools.

## References

[Paul Prescod](#)  
[Richard Kettering](#)  
[David White](#)  
Rick Buscholl

CTO, Ayogo Health Inc.  
Frogatto Lead  
Engine Lead, Anura Engine  
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