

GD399.01 Special Topics in Graphic Design: Open Source ran from January to May 2018 at the Maryland Institute College of Art (MICA). We explored new tools and ideologies for making design using the lens of "Free/Libre/Open Source (F/LOS)." Each student was asked to use F/LOS tools in the making of their design projects all semester, and to experiment with how the ideas and technologies from this realm might serve their needs. While using some of the F/LOS software for final outcomes wasn't always possible (we worked on templates for our school library for example, they still needed things in InDesign), the conversations we had and ideas that surfaced from readings and classroom visitors made their way into student work both inside and outside the classroom.

Open Source Design

Why have developers latched onto the open source movement, but designers have not?

— GARTH BRAITHWAITE

A web search for "Open Source Design" returns several resources to start understanding how F/LOS has a graphic design impact. Near the top of the list is *The Open Source Design Manifesto* by Garth Braithwaite, a designer at Adobe. The manifesto is as follows:

I will:

- find opportunities to design in the open
- share my design experiences; both the good and the bad
- find time for meaningful projects
- openly participate in design discussions
- work with other designers by choice
- improve my toolbox

With *the Open Design Manifesto*, and a 2013 talk called *Designers Can Open Source*, Braithwaite explores simple actions/behavioral changes designers can take to become more "open." This revolves around an increase in sharing: sharing processes, especially the failures; and post as you are working, show how things evolve. This (hopefully) creates a new kind of ecosystem where designers are friendlier and more collaborative with their neighbors — more un-self-concious.

In response to Braithwaite's ideas, we decided to post all of our work on github and to record all of our discussions. This felt like a good place to begin the term. We had decided to be open, to share more, to start to utilize at least one tool of open source developers (Github), but where are the roots of this way of working?

Linus's law

The way we think about and talk about open source today owes a lot to Eric Raymond's *The Cathedral and the Bazaar*. In the essay, Raymond analyzes how Linus Torvalds (and the distributed hacker crew Torvalds helped lead) developed the Linux Kernel. Raymond

outlines and graphics in between bouts key to Linux's and
Linux's success. There are two in particular that merge
well with Brasília's design.

As soon as a new version of Linux was working, it would
be posted for others. This "release early" release often
maximizes in the face of existing software development,
practices: one typically did not wait to release public code
it was feared that users would spend more time on your project, so
one waited until every editor was found before releasing.
Relying on many that this was not the case with Linux.
[It was clear that something different and much
earlier was going on with Linux]. The success
was in how Torvalds treats users — they're treated as
colleagues and co-developers. Release early and often is a
pledge for Relying's next takeaway from this class:
"Linux's Law". Linux's law states that "Given a large
enough beta-tester and co-developer base, almost every
program will be characterized quickly and effectively
to someone", or "Given enough developers, all bugs are
shallow". Get as many users as you can to think with your
designs, and make sure they tell you about everything
right and wrong that they find — especially the wrong.

This is what Brasília is trying to get designers to
understand that developers seem to have learned well
many years ago. In graphic design we are
trying to find the best visual solutions — put now off to
we throw out quickly for more ideas and see if anyone can
make jokes in our thinking easily on in the process? This
can be done within a classroom or studio between
colleagues — as friends come together make sure you're
passing things around between desks(desktops; or, if you
take place out in the world at large (via something like
Dribbble's GitHub's Behance).

More Than A Theory

It is absurdly simple to begin the design process with a
empty piece of paper
— HELLA JONGERIUS & LOUISE SCHOUNMENBERG

What Relying is describing in The Candy Bar ring tie
Barbar is not anything novel. There are other structures

enabling cultural creation via distributed means and including bug fixes from the community: vernacular design. What is described by Raymond is not so different from the way that human creative endeavors have come into existence for most of our collective past. In fact “the ‘open source’ way is closer to how human creativity has always worked” — it’s the proprietary model of production that is new.

In *How Buildings Learn*, Stewart Brand dissects vernacular building and describes a process that predates the Linux community while sounding uncannily similar. In Brand’s view, the vernacular process is a systematic framework for evolving concepts. A culture steadily culminates frameworks over time. Vernacular designers reuse invented common forms and methods for common, everyday tasks. Vernacular in this context means common designs by common people. Common features survive the passage of time when they are collectively understood as “good.” Over the years then, a vernacular incorporates more and more “good” features while eradicating “bad” ones. Contemporary design typically looks for new or unique solution to a given problem — this is counter-productive to creating traditions and building tested solutions over time, and it cannot easily take advantage of this methodology.

To illustrate this in *How Buildings Learn*, Brand references the Cape Cod house. His included diagram is named “The Evolution of the Siasconset Whale House.” This chart visualizes what Raymond is trying to explain to us in *The Cathedral and the Bazaar* (Braithwaite also wants contemporary designers to understand this), that simple things released into the wild of a user community will grow, evolve, and change — and will evolve improvements. The improvements merge back into the computer code or architectural language. Repeat. Torvalds is a genius to Raymond not because he uncovered something new, but in that he managed to take an existing form of cultural production and accelerate and decentralize it so as to maximize merging fixes and improvements and features!

If new software can be designed and constructed this way, and vernacular cultural objects have always existed this

way, what's so hard in contemporary visual design?

Free as in Freedom

I consider that the Golden Rule requires that if I like a program I must share it with other people who like it.

— STALLMAN IN GNU MANIFESTO

Richard Stallman first published the GNU Manifesto in 1985. In it, he described “Free Software,” which was in opposition to proprietary software. Stallman’s motivations for this were both pragmatic and utopian. He hoped to maintain the kind of environment expected from academic computer programmers: a vernacular-like model where everyone builds upon everyone else’s work. Stallman also was hoping to fight the tide of proprietary, softwares and tools he felt rising. Free software is predicated on the following freedoms:

A program is free software if the program’s users have the four essential freedoms:

- The freedom to run the program as you wish, for any purpose (freedom 0).
- The freedom to study how the program works, and change it so it does your computing as you wish (freedom 1). Access to the source code is a precondition for this.
- The freedom to redistribute copies so you can help others (freedom 2).
- The freedom to distribute copies of your modified versions to others (freedom 3). By doing this you can give the whole community a chance to benefit from your changes. Access to the source code is a precondition for this.

A program is free software if it gives users adequately all of these freedoms. Otherwise, it is nonfree. While we can distinguish various nonfree distribution schemes in terms of how far they fall short of being free, we consider them all equally unethical.

Free software, as defined by Stallman, is ethical. It has a point of view. Its clear about where it stands. Braithwaite and Raymond do not deal with this in their discussion or anal

lysis of “Open Design” and “Open Source” respectively. Students that were attempting to get a grip on their position as a designer intentionally using design as a political or critical act found something of use here. The software one chooses to use can reflect ethics.

In Opposition

The way Stallman positioned GNU was intentionally oppositional to “main stream” software. As GNU/Linux and other F/LOS tools have grown, they’ve maintained an outside, counter-cultural status. Stallman was never against developers making money — the GNU project and Free Software Foundation have always been clear that Free means Freedom, not free meaning price — but he is against developers or companies making money by sacrificing or minimizing the freedoms of their users.

Software/OS as a radical act is a fresh take for design perhaps? Anthony Dunne and Fiona Raby in *Designer as Author* propose that designers develop a parallel design activity that questions and challenges industrial agendas. F/LOS does this.

Walking into the average design classroom or studio presents one is greeted by an aluminum wall punctuated by glowing fruit behind which everyone has the same “creative cloud” raining down similar outputs from (mostly) the same sets of aesthetic inputs. By replacing one’s computer and software with F/LOSS alternatives a designer immediately engages in Stallman’s and Dunne & Raby’s critical activities. Designer’s can better access the transparency Braithwaite talks about and better actualize the open source/vernacular un-self-conscious iterating, improving, and forking; as well as provide a critique of our current situation by embodying alternative social and technical values.

Free Does Not Mean Easy

We have on the one hand a pragmatic approach based in the history of designing — how we as humans created cultural and societal artifacts; and on the other, a critical design approach that intentionally positions itself as

Right click on part of the pattern. Select **Format Object**. Under **Fill**, choose **Picture or texture fill**. Click **Picture** and select the image you want to use as a background. Click **OK**.

(The Liptria's adjectives to MICAs pricing guidelines for its materials, so choices like Theinhardt for tape were pre-determined). tape were used in our redesigns, but we could not include share all manner of our designs, but we could not include our counters and ideas were isolated by FLOs — put our create everythig for them with Adobe Creative Cloud. there were limitations to what we could do; we still had to editting demo with a Jiptria staff member). However, Liptria's director and staff — we even did a wikipedia pages of stemmns, and FLOs at large are mirrored by the with MICAs piracy on some new materials. The piracy stops us from doing what we do best. In our class we collapsed into collapses and be more open to collaboration, one is less able to collapses as the tools have changed — these are themselves to collapses as the tools are open practices for While one might adopt more open practices for

just feels like "paying" software because of the given so much of our time to other things already that it complicated or "worse" though really harder or more difficult to work, etc. If it actually harder or more difficult to use. Every struggle came in frustration as a barrier to use. Just tools are hard to install and/or hard to use is just another inefficiency.

Forks in the Road

...as well as their responsibilities.

We need to focus on thinking because without it, we are
constituted by the tyranny of the possible.

— STEPHEN DUNCOMBE

The end?

Kristian Blumgard
2018-05-04, Baltimore, MD

The End?

Open Source Software Successes are not unique to Open Source Software. Many successes are due to the reuse of existing code. This means that we as individuals can contribute to open source projects without necessarily writing new code. Open Source Software is a community effort, where many people work together to improve the software. This makes it easier for individuals to contribute to the project. As a result, Open Source Software is often more stable and reliable than proprietary software.

follow the trajectory of tools. One can focus on designing over collision-prone situations, such as turning, etc. easy. It also requires one to take care and share a workspace with other robots. This means files can easily be swapped or open simultaneously. This is due to the fact that file extensions are standardised.

As an educator my role is to help create new knowledge for my discipline. FLOs allows for this in pragmatic and theoretical ways. Its pragmatic in that there are FLOs tools that do not exist in main stream operating systems for example or NodeBox or Processing. It is theoretical in that from Adobe or Autodesk (the Spira tool in InkScape for example) can reflect non-traditional advances and the tools themselves can reflect non-traditional advances as possible or "standards".

This computer software has different effects from yours." Using the same computer or software as you." And "my scriptus, etc.) a designer is specifically saving "I am not choosing to use this shared set of software (Linux, model myself for criticism out mainstream culture. By clients or pursuers. FLOs ideas create an oppositional that can return to its vernacular roots and not just serve FLOs design measures is that all that's possible; design to see changes for design as social critique; design that can return to its vernacular roots and not just serve designers, icons, temples, Fleischwerks. It this was

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