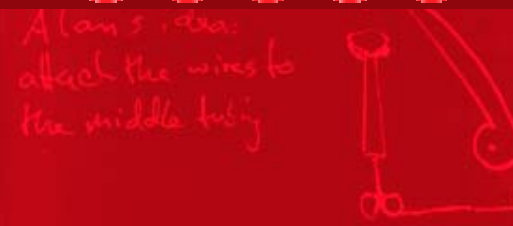




Ubicomp Mash-Ups

Searching for *Digital Hot Glue*



Bill: copyright
visualization of license



Scott: a gate that shows
who walked through it last
Bill: a gate that measures
ceremonial gates

Developers: What it Means to be a Mashup

Posted by [ScuttleMonkey](#) on Wednesday August 09, @03:36AM
from the [development-has-to-come-from-somewhere](#) dept.

An anonymous reader writes

"IBM DevWorks has provided us with an introductory article that helps define what it [means to be a mashup](#). In addition to just defining what a mashup really is the author also delves into what they do for the community at large and where they may take us in the near future. From the article: 'Mashups are an exciting genre of interactive Web applications that draw upon content retrieved from external data sources to create entirely new and innovative services. They are a hallmark of the second generation of Web applications informally known as Web 2.0.'"



[Read More...](#) | developers.slashdot.org

[1](#) comment

maybe another term is appropriate? (Score:2)

by [macadamia_harold \(947445\)](#) on Wednesday August 09, @03:47AM ([#15872021](#))
(<http://www.planesonasnake.com/>)

Sorry, but this buzzword's taken.

mash up. v. To take elements of two or more pre-existing pieces of music and combine them to make a new song. n. A song comprised of elements of two or more pre-existing pieces of music.

2. I'm in the middle of mashing-up songs by Tom Jones and Michael Jackson. (verb usage)

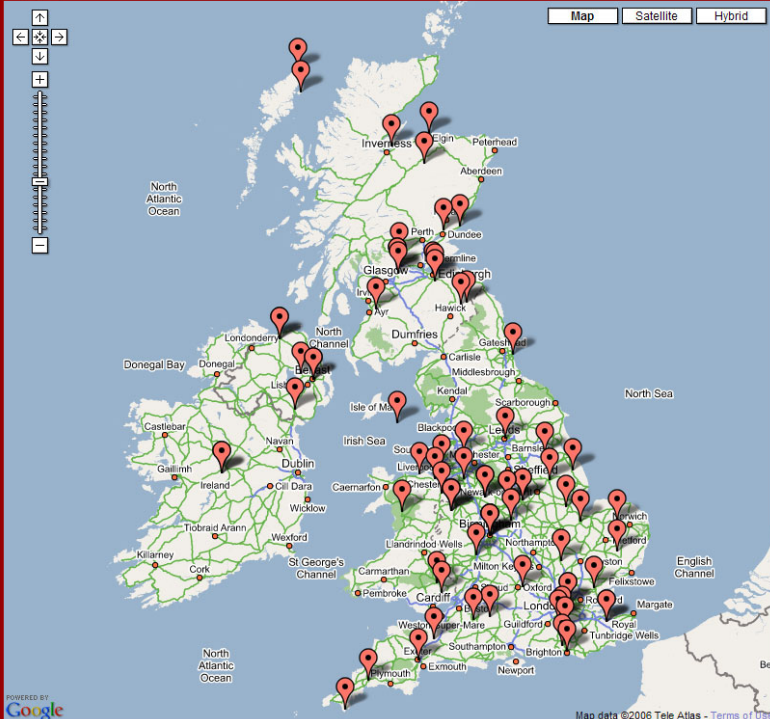
[[Reply to This](#)]

Working definition:

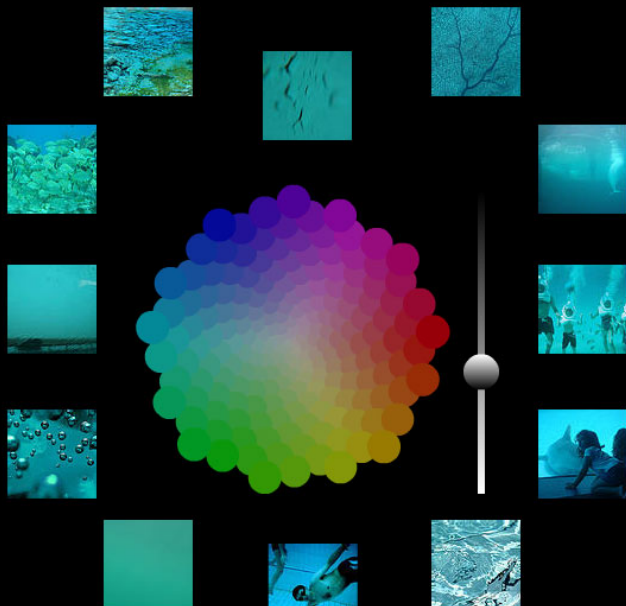
*“A **combination** of existing technologies, **glued together** to achieve new functionality (as opposed to creating that functionality from scratch).”*

Mash-Up Matrix

Hardware	Off-the-shelf	Circuit Bending, DIY Electronics				
	Custom					
Software	Desktop w/o API	Ubicomp Mash-ups	d.tools+ Java robots	Macro+ Shell Scripts	Apple Script	
	Desktop w/API					
	Web 2.0 API			?	Web 2.0 Mash-ups	
		Off-the-shelf	Custom	Desktop w/o API	Desktop w/API	Web 2.0 API
		Hardware		Software		



flickr [Color Fields Experimental Color Picker - Jim Bumgardner](#)



Web2.0 Mash-Ups

Weather Bunk [NEW! Golf Bunk. Add to your site! more](#)

Location: Show: ☐ All Weather ☒ Cams Alerts ☐ Alerts (more points) (web cam category) U.S. Only [search help](#)

Point Forecast for 37.500,-122.317

The Weather Channel® Forecast
Weather data provided by weather.com.
Forecast for belmont,california.

Tuesday Aug 8
Clear, 0% chance of precipitation. Winds 1mph from NNE. Humidity 72% Sunset: 8:10 PM **60 °F**

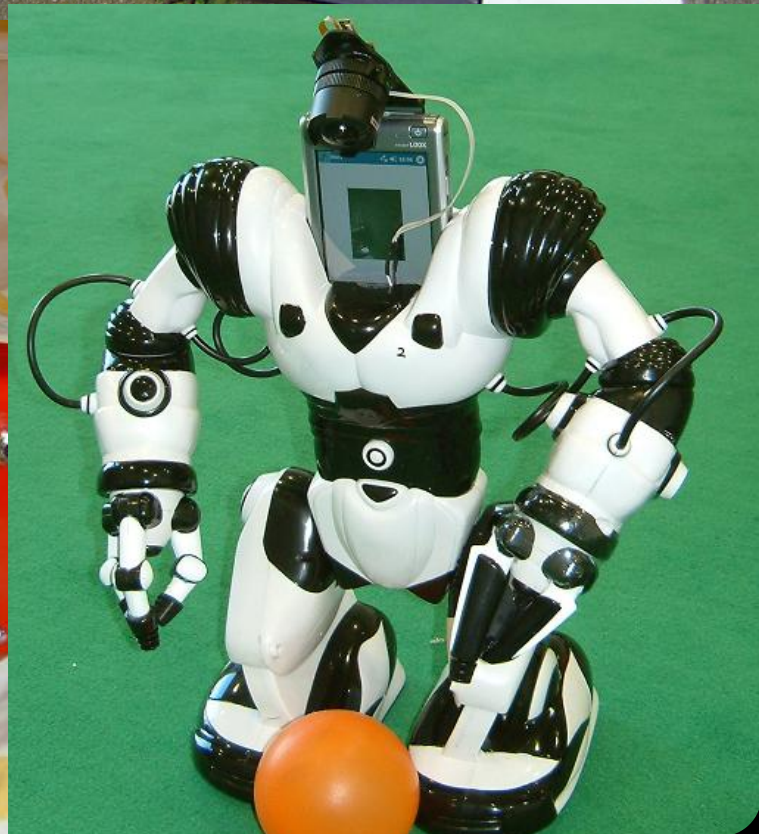
Wednesday Aug 9
Sunny, 0% chance of precipitation. Winds 11mph from N. Humidity 42% Sunrise: 6:20 AM **92 °F**
Clear, 0% chance of precipitation. Winds 9mph from N. Humidity 63% Sunset: 8:09 PM **60 °F**

Thursday Aug 10
M Sunny, 0% chance of precipitation. Winds 13mph from NNW. Humidity 47% Sunrise: **86 °F**

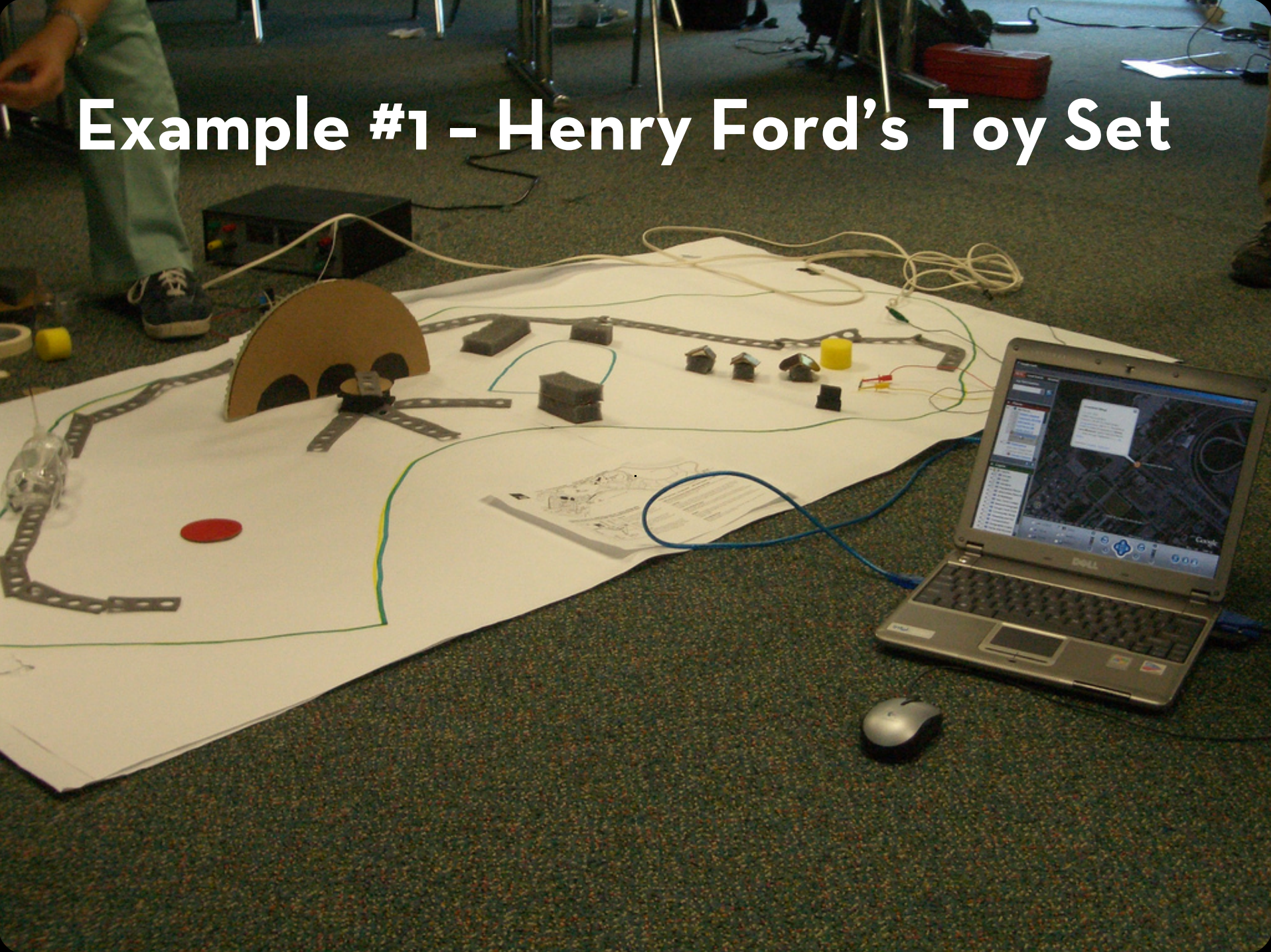
NEW! Provider: [set default](#)

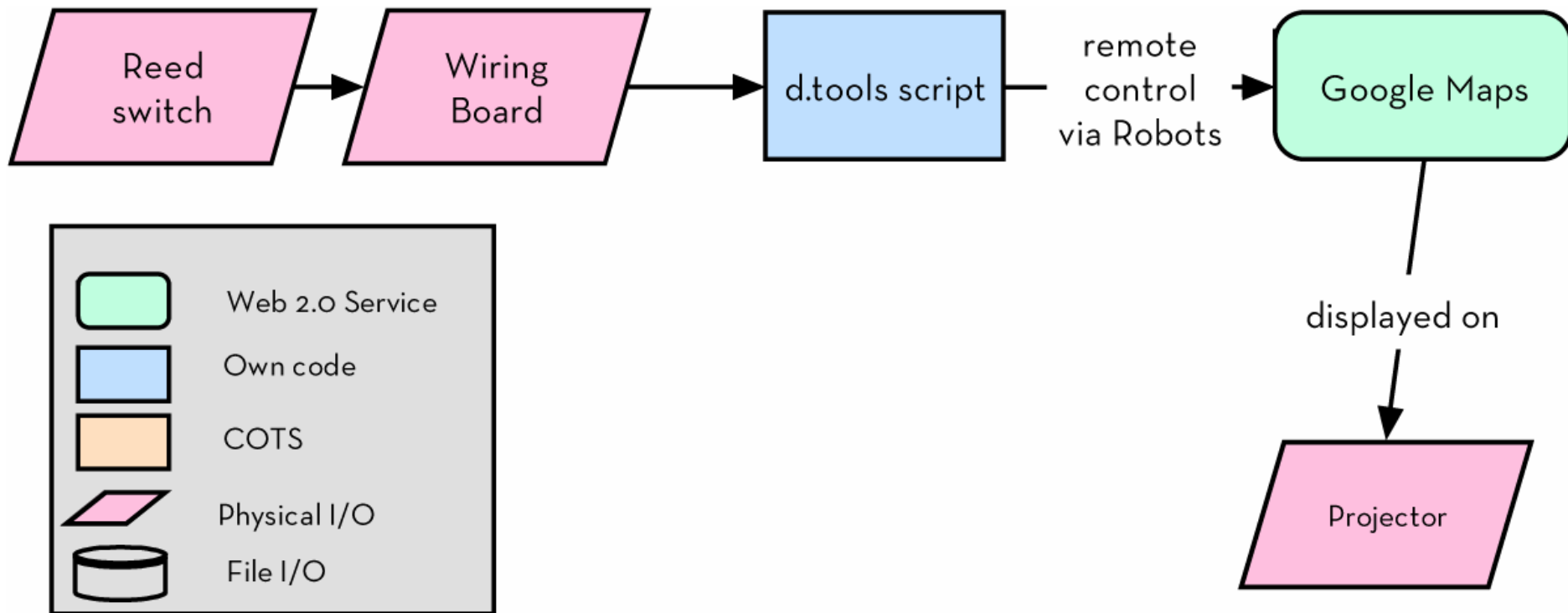
Circuitbending & Toy Hacking

Copyright Kevin Rees - Circuit-Bent.Net



Example #1 – Henry Ford's Toy Set

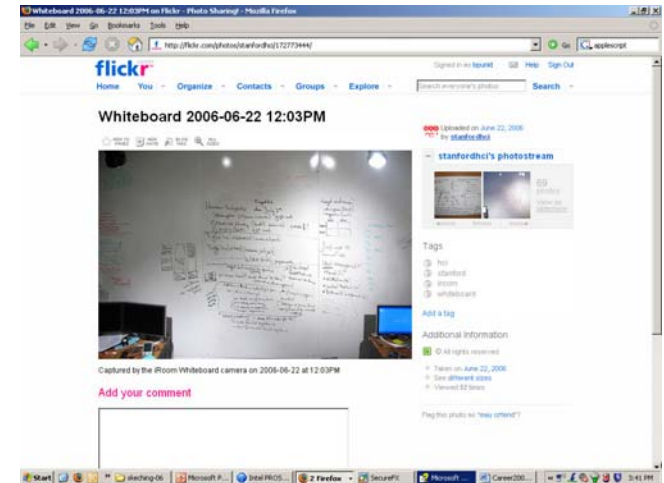


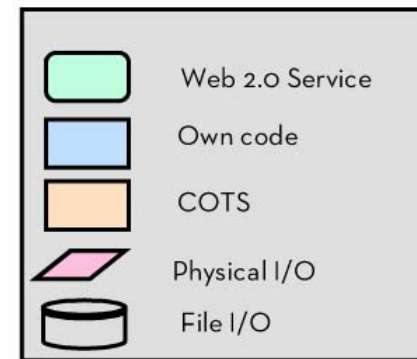
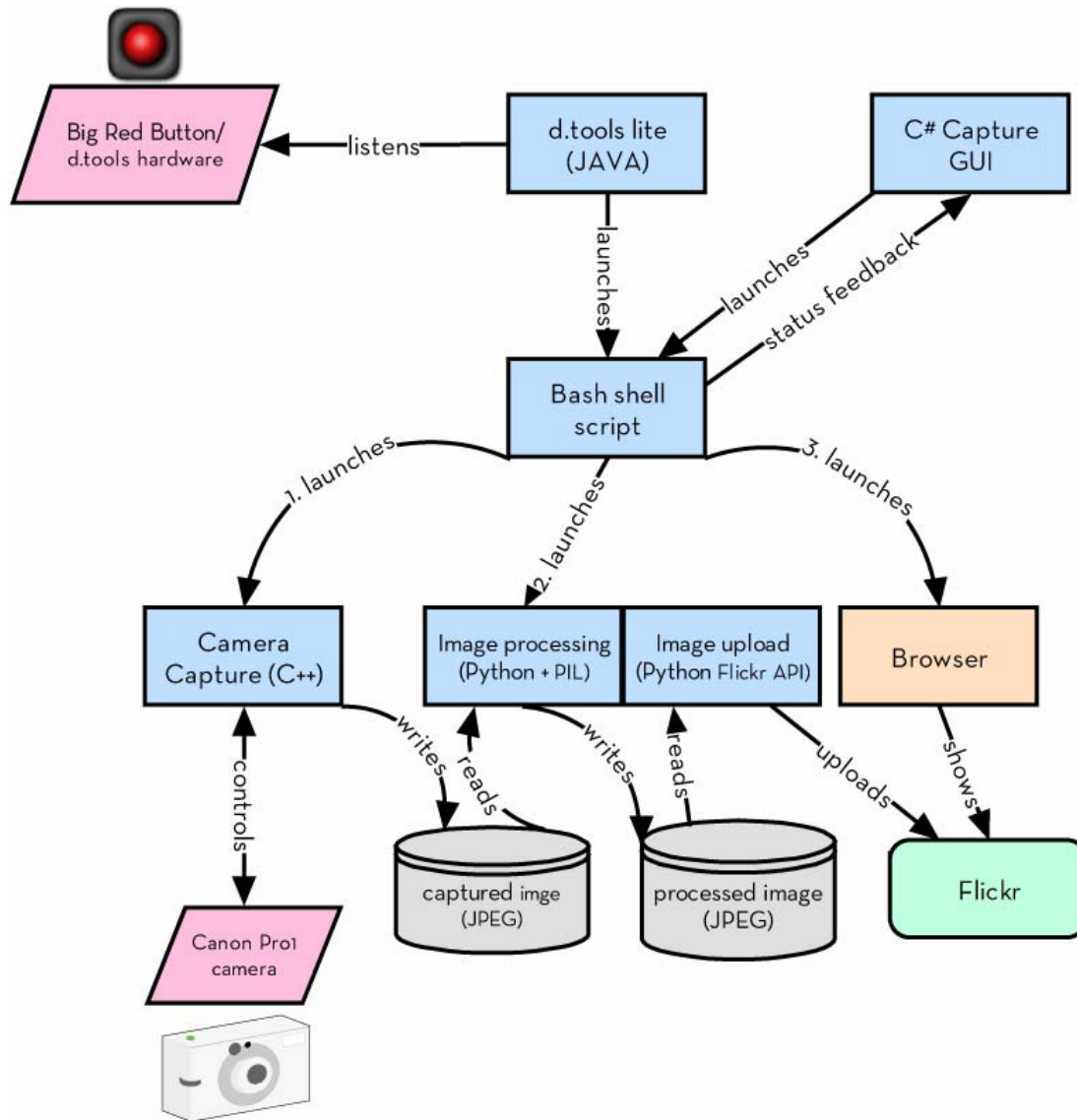


WHAT ABOUT
BORROWED
CODE?

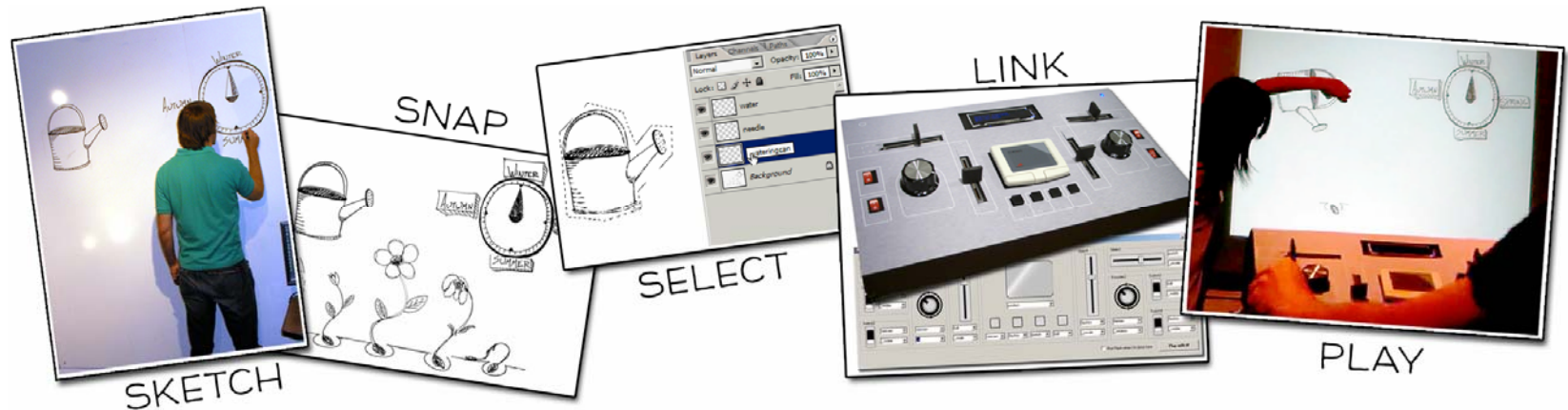
Example #2

Our whiteboard has a Flickr account

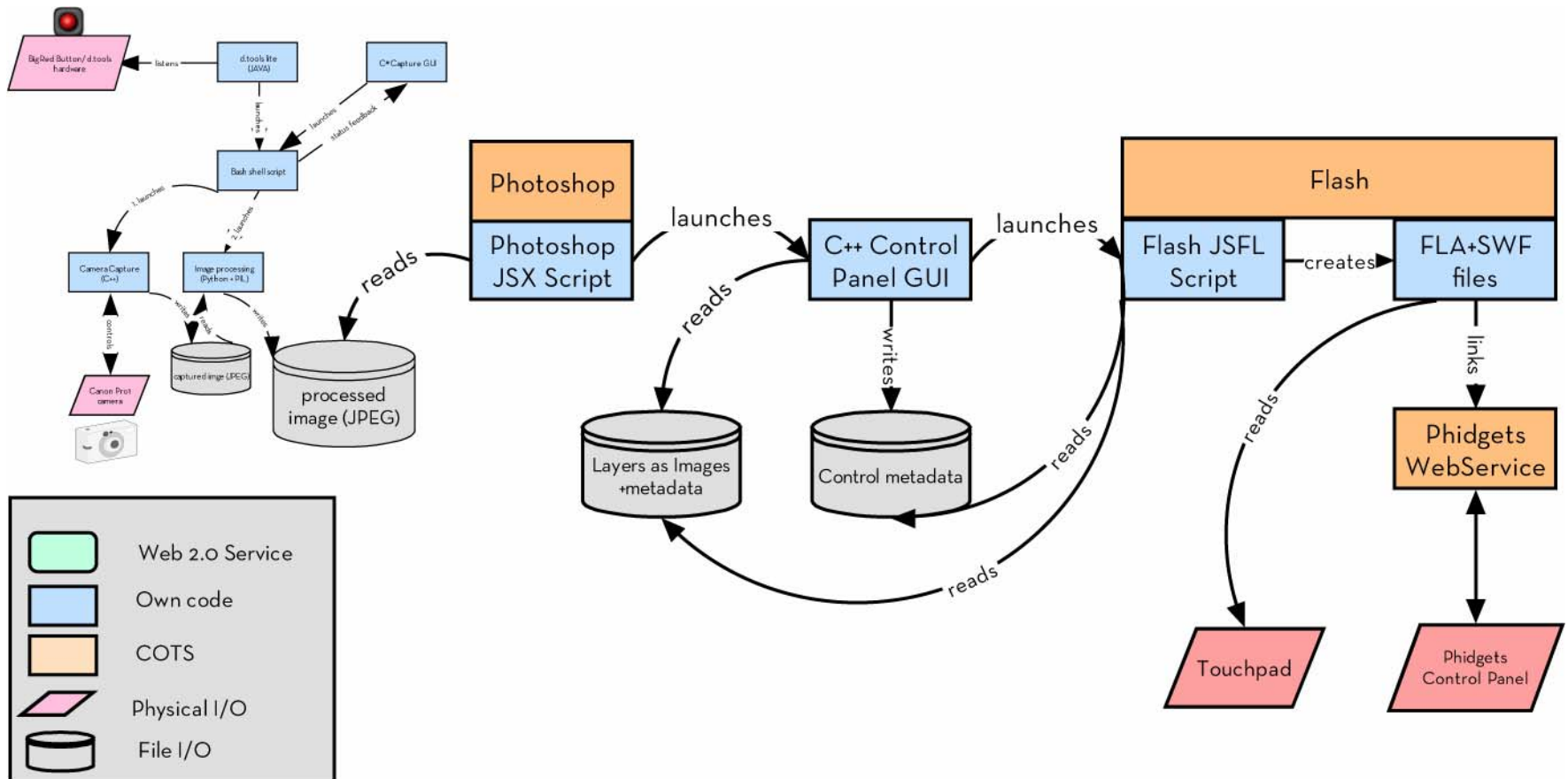




Example #3 - Ex-A-Sketch

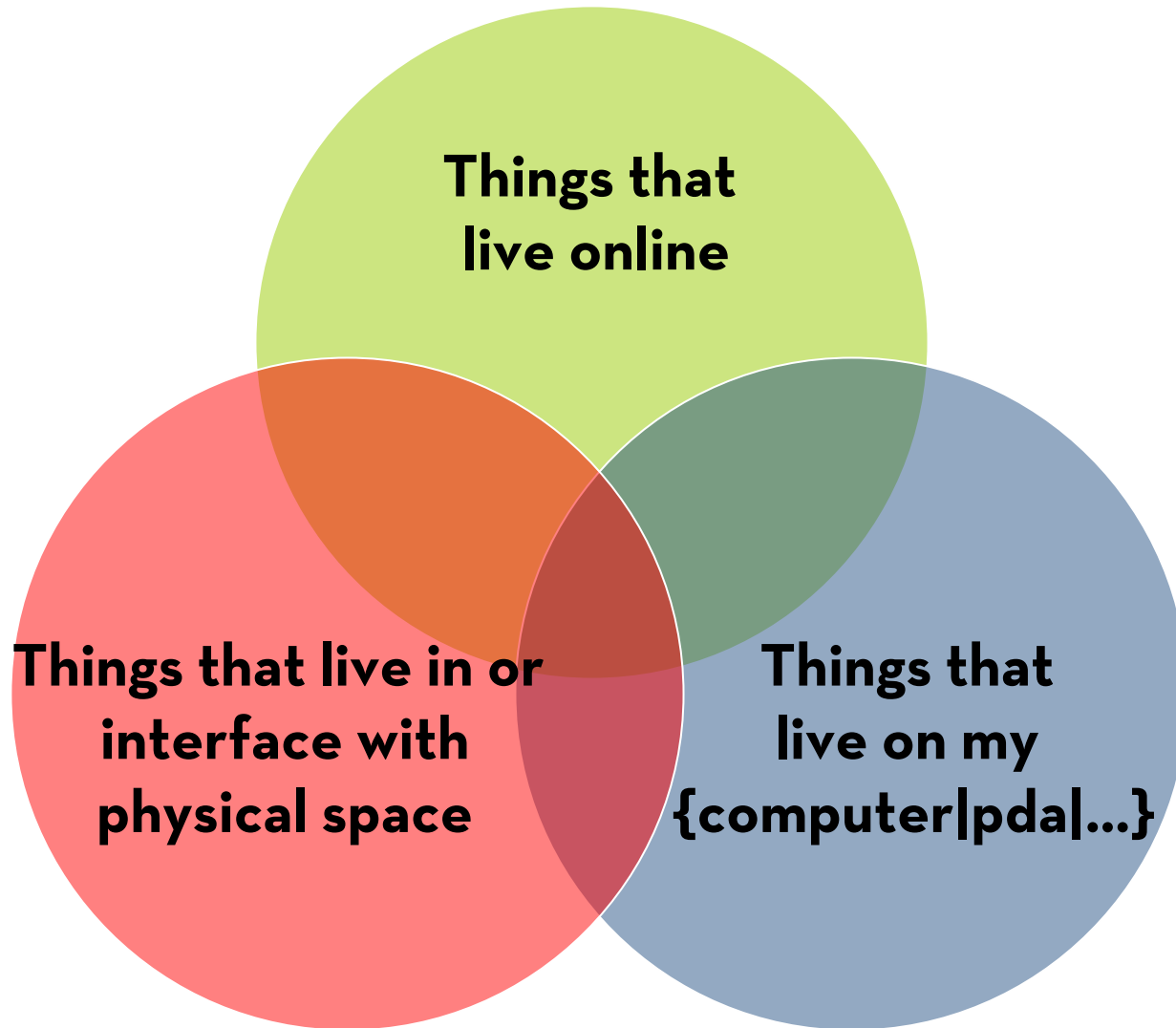


<http://hci.stanford.edu/research/ex-a-sketch/>

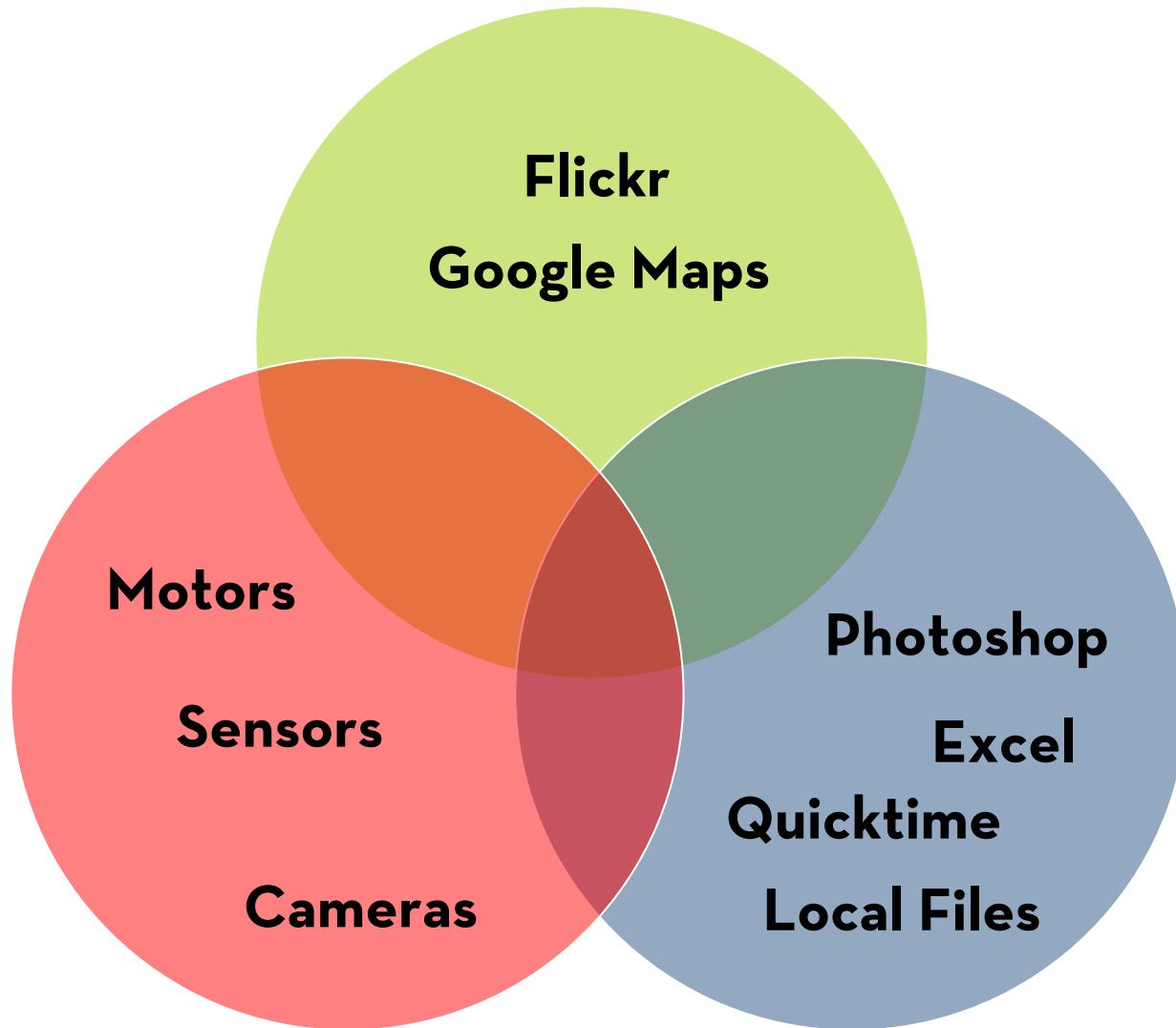


**Gluing things
together:
What ? How?**

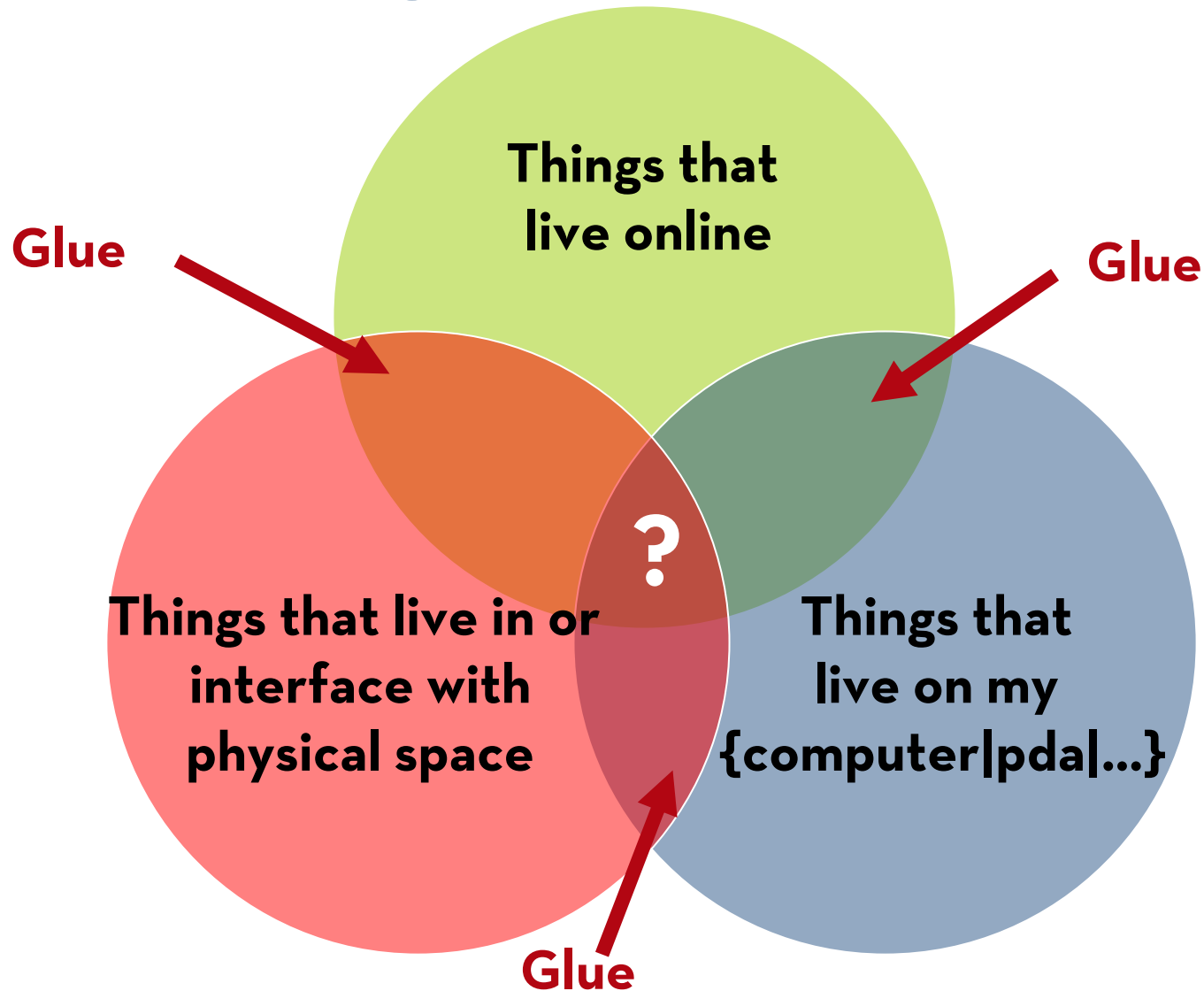
Three Realms



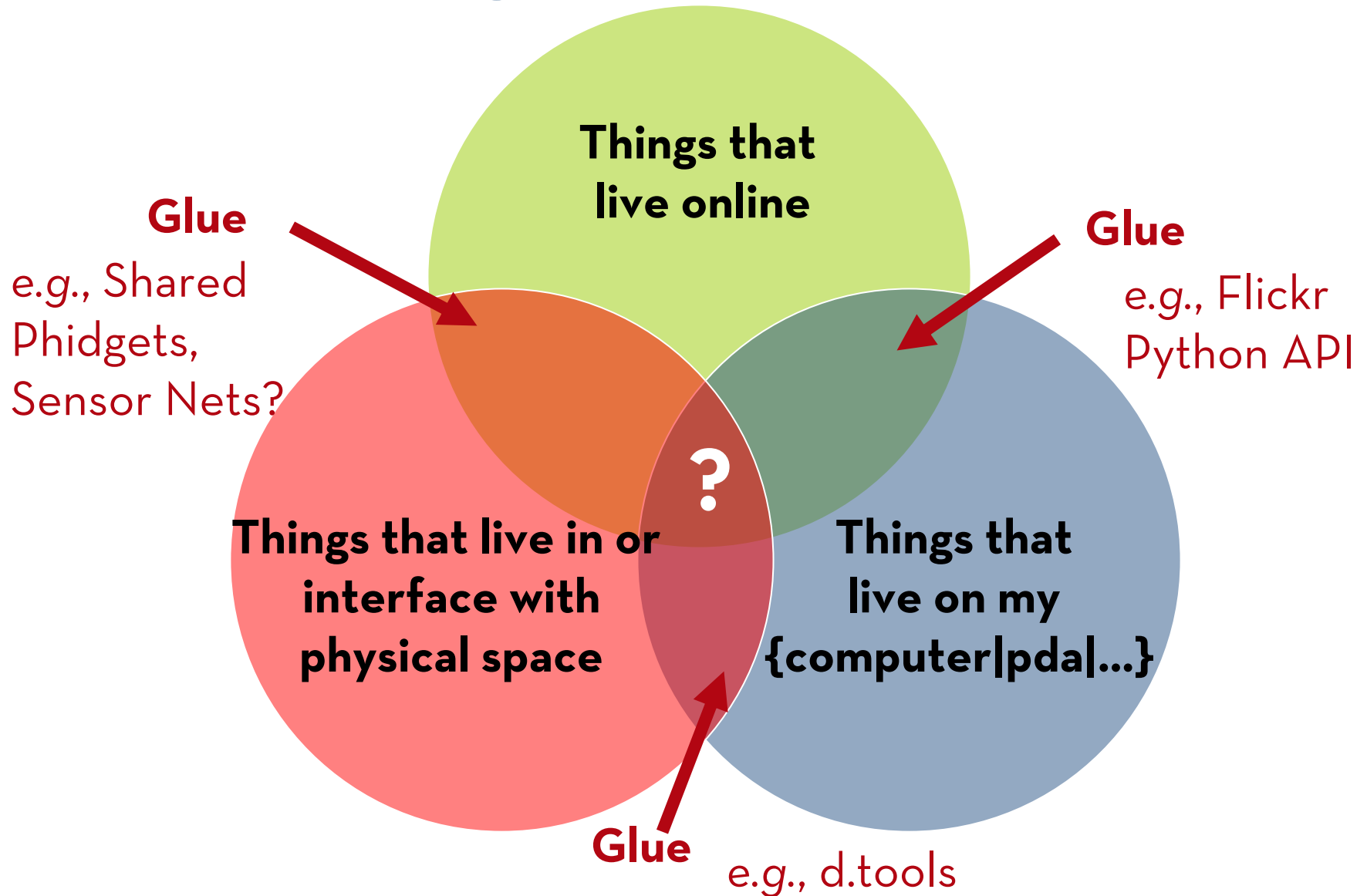
..with some examples



Connecting different pieces



Connecting different pieces

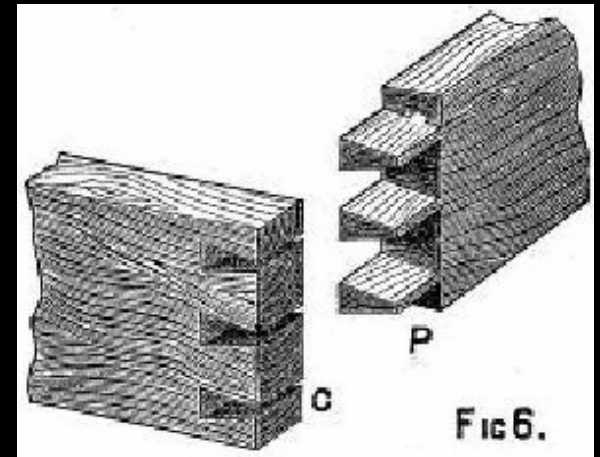


Two kinds of Adhesives/Connectives



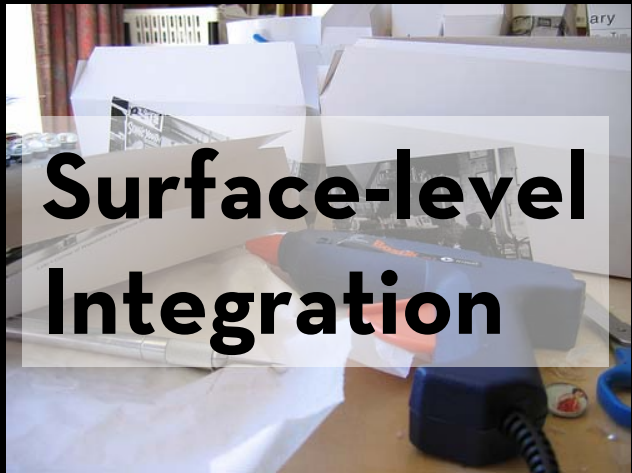
Hot glue

VS.



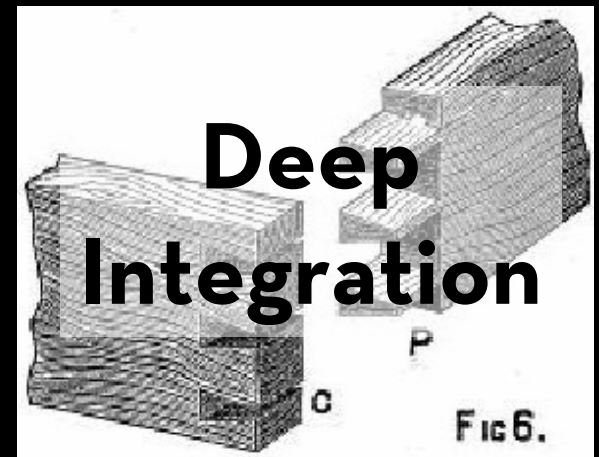
Dovetail joint

Two kinds of Adhesives/Connectives



Hot glue

VS.



Dovetail joint

Two kinds of Adhesives/Connectives

**Screen scraping
& screen poking**

VS.

Public APIs

Hot glue

Dovetail joint

Welcome to the mashup-tools wiki!

The goal of this wiki is to be a guide to the different tools and tips that ubicomp developers use when building technology mash-ups. Our definition of a mashup may differ from yours.

- [ScreenPoking](#) tools generate mouse and keyboard events to control PC applications through other means (mechanical, electronic, or through software). These are INPUT ONLY.
- [ScreenScraping](#) tools
- Electronics:
 - [Hardware to PC interfaces](#) reading sensors on your PC, controlling actuators from your PC
 - [Simple Microcontrollers](#) embedded control of sensors and actuators; mostly with roll-your-own PC connectivity.
- [Transducers](#) that change one type of input/output into another
 - [Game console to PC adapters](#) let you turn game console controllers such as the DDR Dance Pad into PC game controllers.
 - [Game Controller to Keyboard and Mouse Transducer](#) turn game controller events into to key+mouse events
 - Optoisolators
- [Automation Software](#)
 - [GUI Automation](#) remote control for your local apps
 - [Web Browser Automation](#) script your web browsing and change web pages client-side
- [ScriptingLanguages](#) make it easy to control and sequence local apps
- [APIs and Data Formats](#) that help to data exchange between local and remote services
- [Some Specific Solutions](#) - some particular kinds of glue ware that work well
- [Lost&Found](#) - everything that didn't fit neatly in one of the categories above
- Learn more - reference material
 - [Books](#)
 - [Sites](#)

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http://mashup-tools.pbwiki.com

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<http://hci.stanford.edu>



Alan's idea:
attach the wires to
the middle tubing

Bill: copyright
visualization of license



Scott: a gate that shows
who walked through it last
Bill: a gate that measures
ceremonial gates