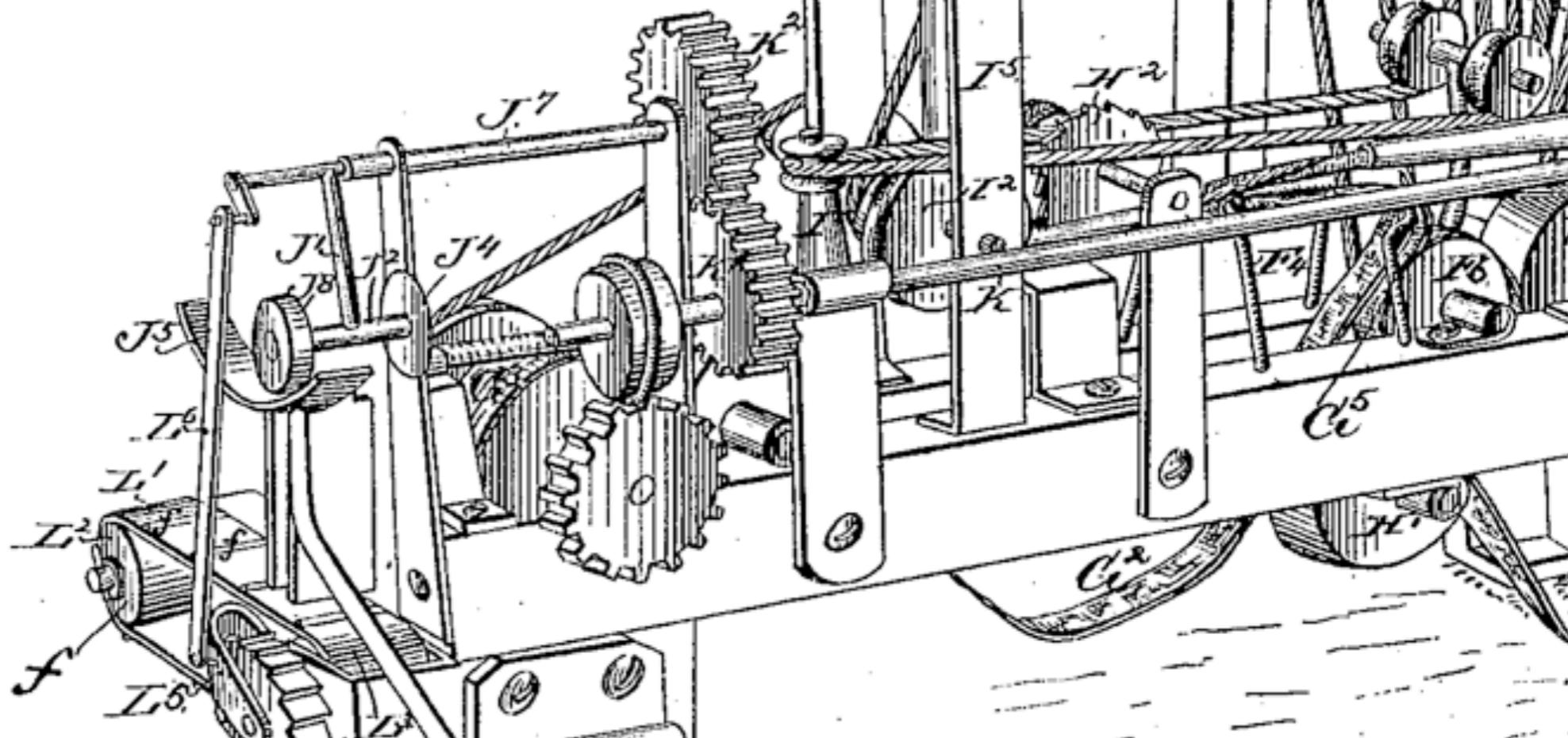
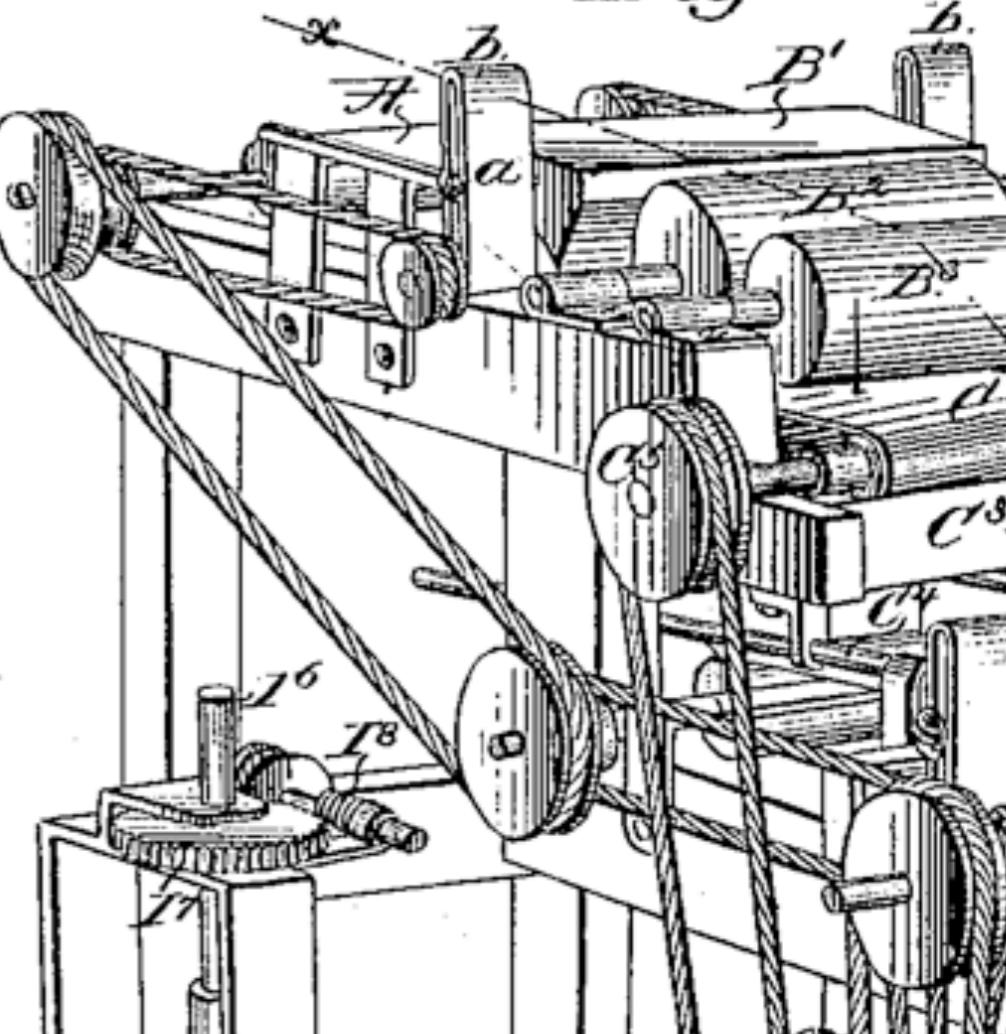


# PHP Machines

Owen Mundy | Fall 2009



*Fig. 1.*



# A Note upon the “Mystic Writing Pad” (1925)

- 207: The ability to store and retrieve information is fundamental to computers and programming languages.
- 207: What would Freud do with a computer?
- 208: Palimpsest: a material on which the original writing has been effaced to make room for later writing but of which traces remain.
- 209: That consciousness consists of the ability to organize traces of information into a perceptible way, so how to record them then?
- 210: The wax paper is like a celluloid film/filter for our brain upon which indentations are made.
- 211: Information is stored in one place, while the system of collection operates in another. Content and logic are separate, just like a database-driven website.
- 211: Like a computer, that which is stored in memory is invisible without a system to retrieve and make conscious.

# What is a machine?

- A device that uses energy to perform some activity or task.
- Machines touch everything in your life.
- Types include: Simple machines, Clocks, Compressors and Pumps, Heat engines (External combustion engines and Internal combustion engines), Linkages, Turbine, Aerofoil, Electronics, et al.

# TAB: MECHANICKS .

Fig 1 Lever of the 1<sup>st</sup> Kind

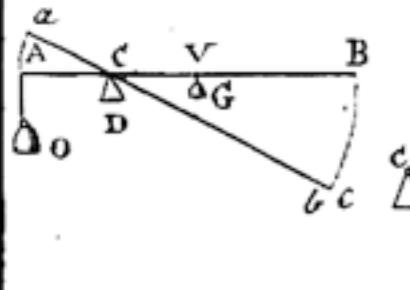


Fig 2 Lever of the 2<sup>d</sup> Kind

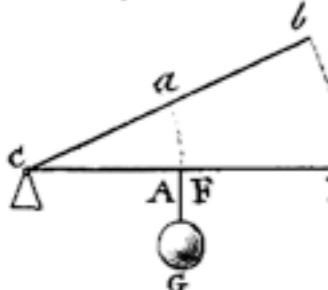
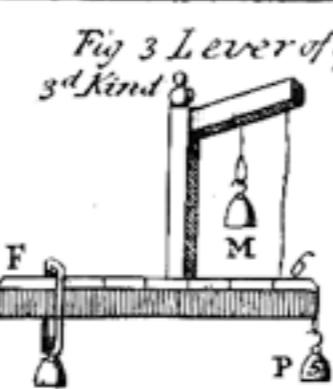
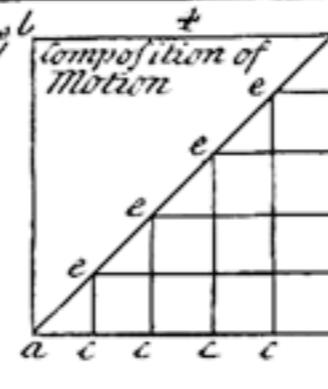


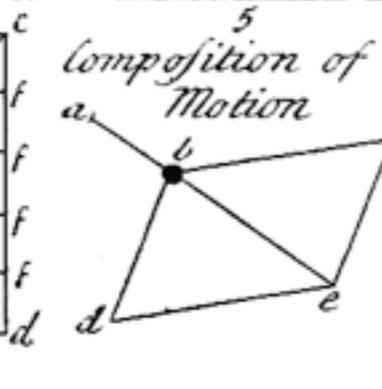
Fig 3 Lever of the 3<sup>d</sup> Kind



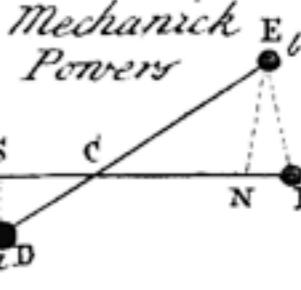
composition of Motion



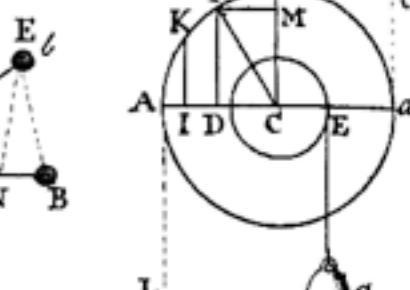
composition of Motion



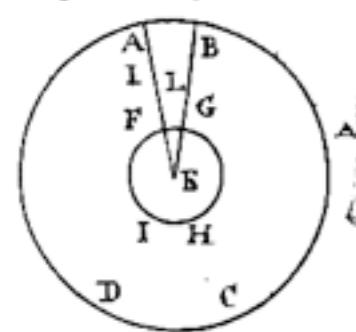
Mechanick Powers



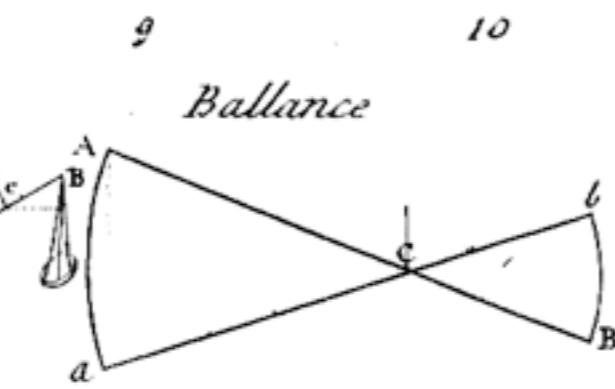
Axis in Peritrochios



gravity

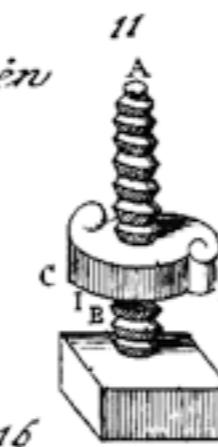


Ballance



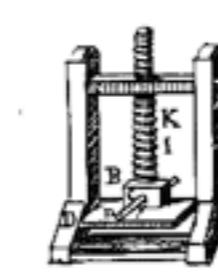
10

Scren

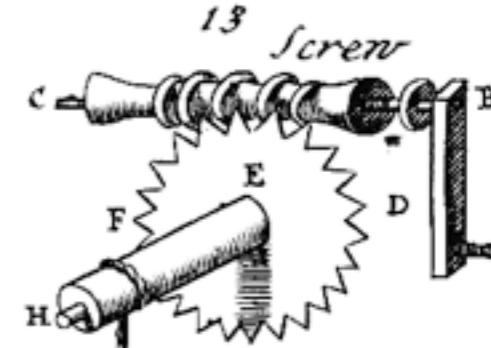


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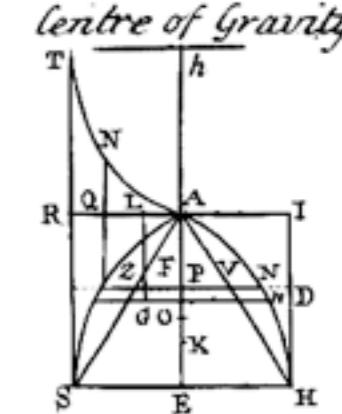
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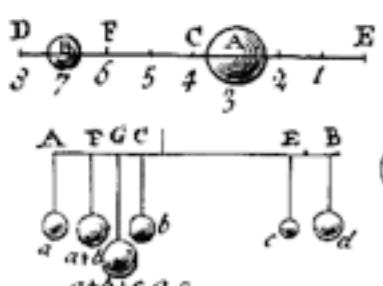
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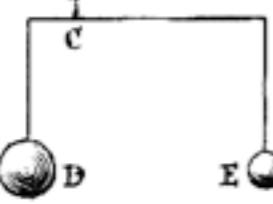
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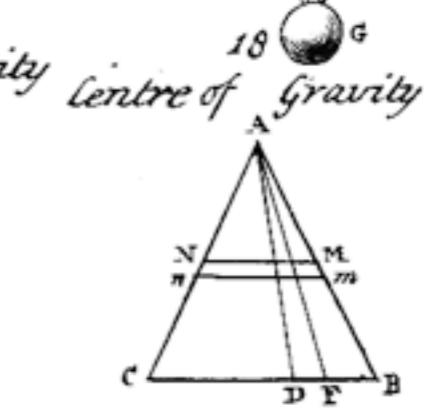
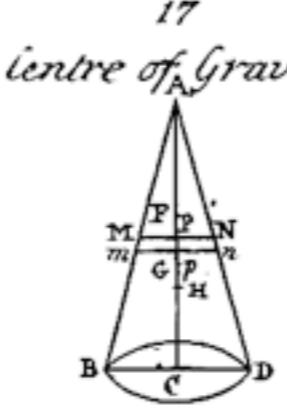
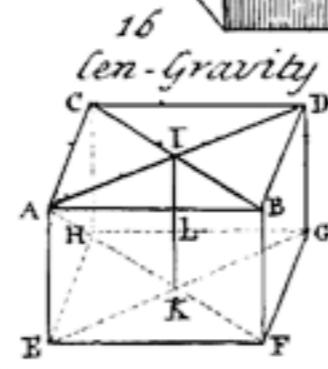
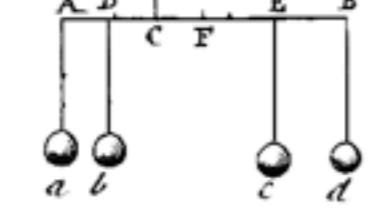
13 centre of Gravity



14 centre of Gravity

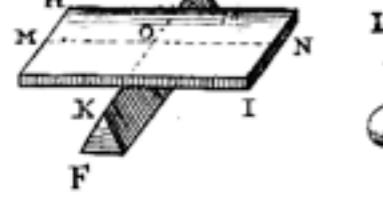


15 centre of Gravity

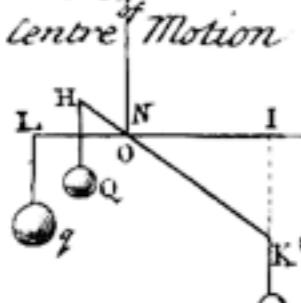


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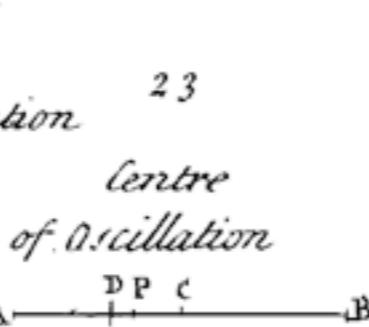
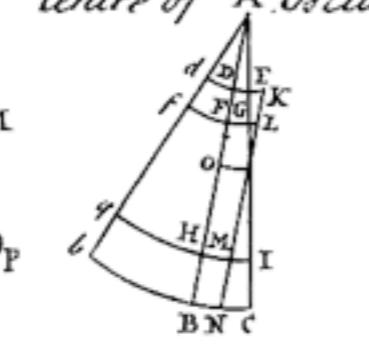
centre of Gravity



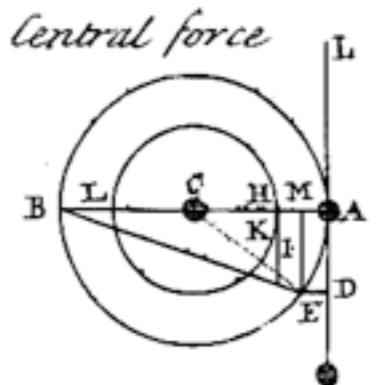
21 centre of Motion



22 centre of Oscillation

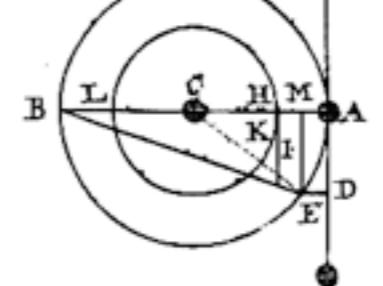


23 centre of Oscillation



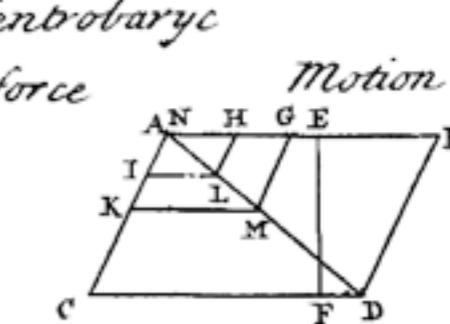
25

central force

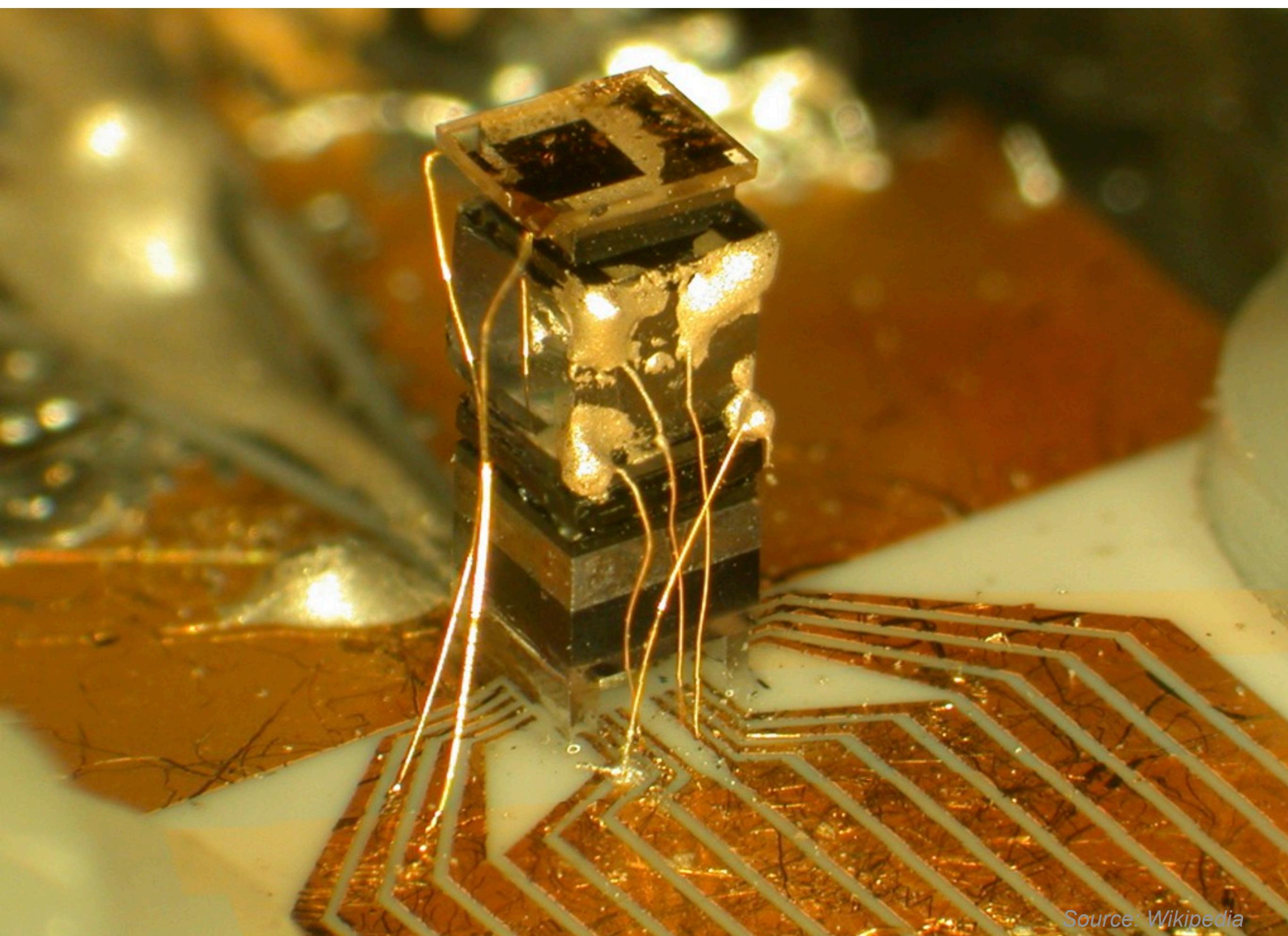


26 & 32

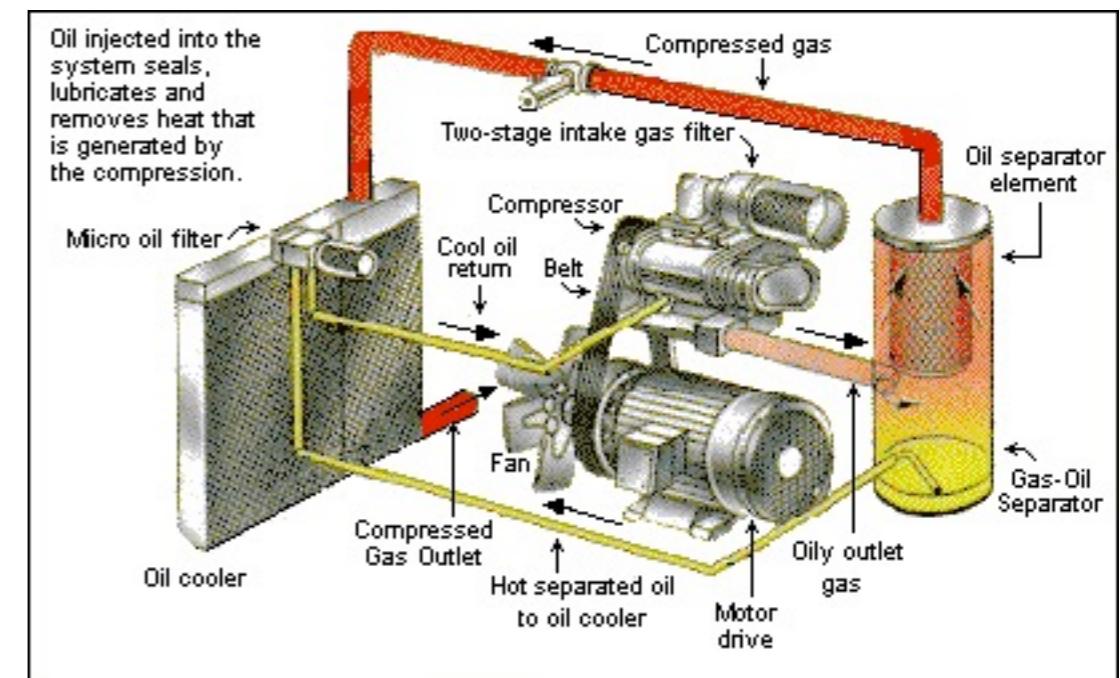
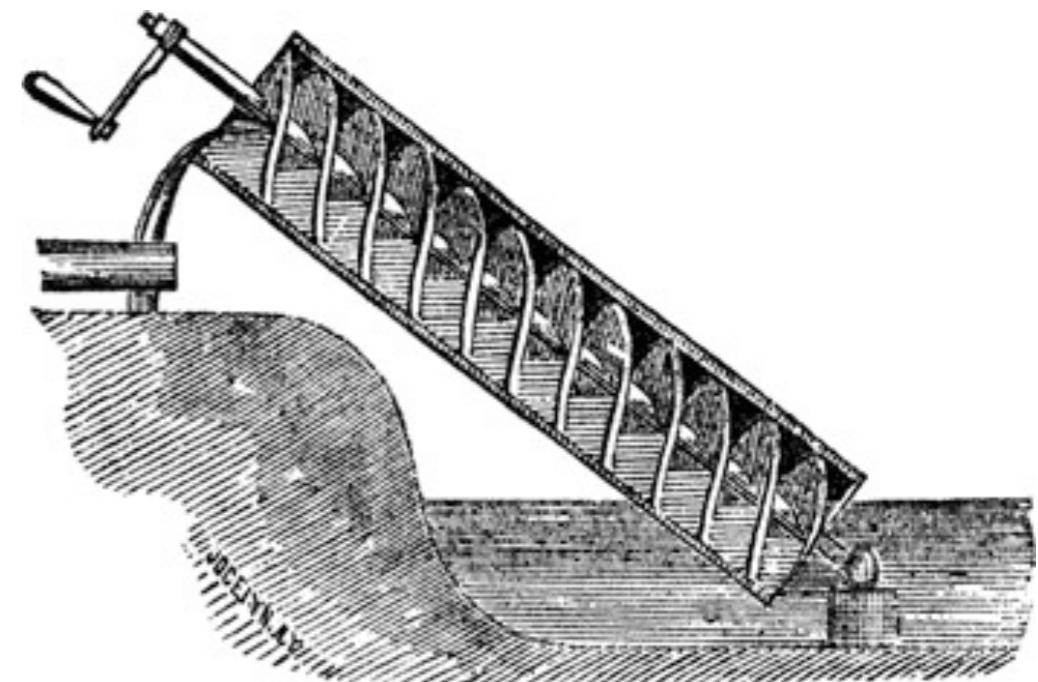
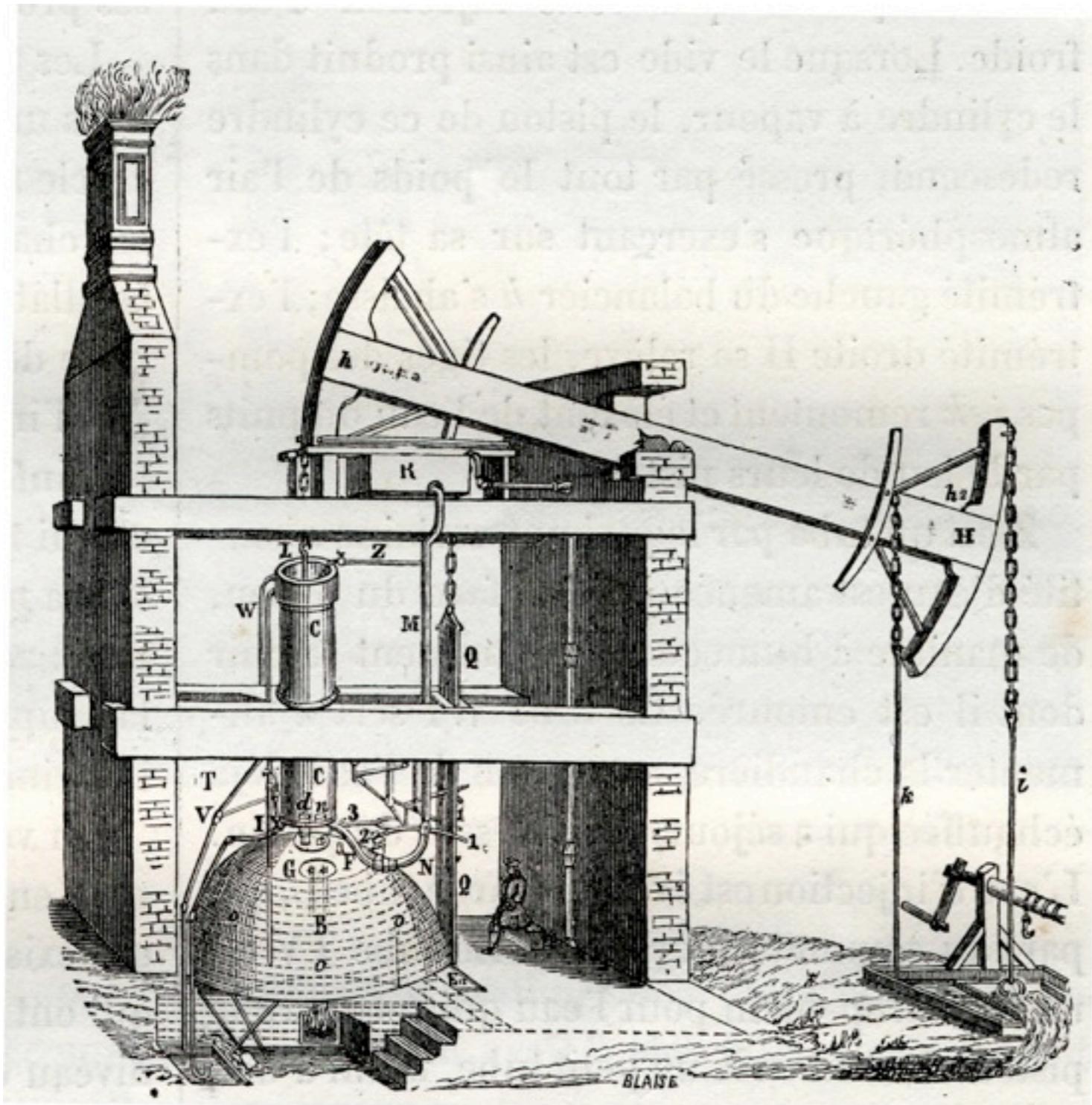
centrobaryc force



Clock: Atomic clock, Chronometer, Pendulum clock, Quartz clock



Source: Wikipedia



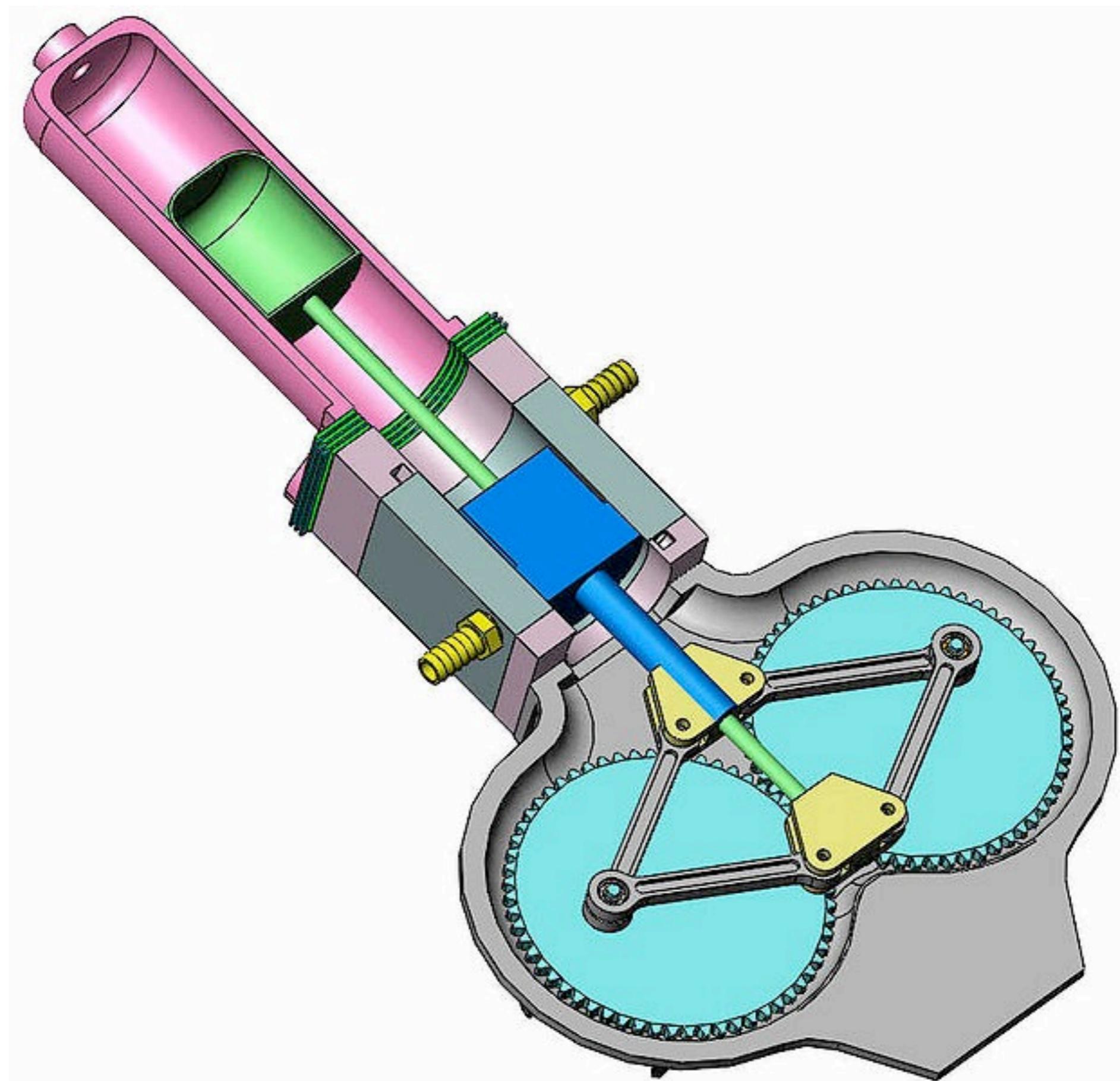
Heat engines (external/internal combustion): External: Steam engine, Stirling engine  
Internal: Reciprocating engine, Gas turbine

PHP Machines by Owen Mundy



The rhombic drive is a specific method of transferring mechanical energy, or work, used when a single cylinder is used for two separately oscillating pistons.

PHP Machines by Owen Mundy

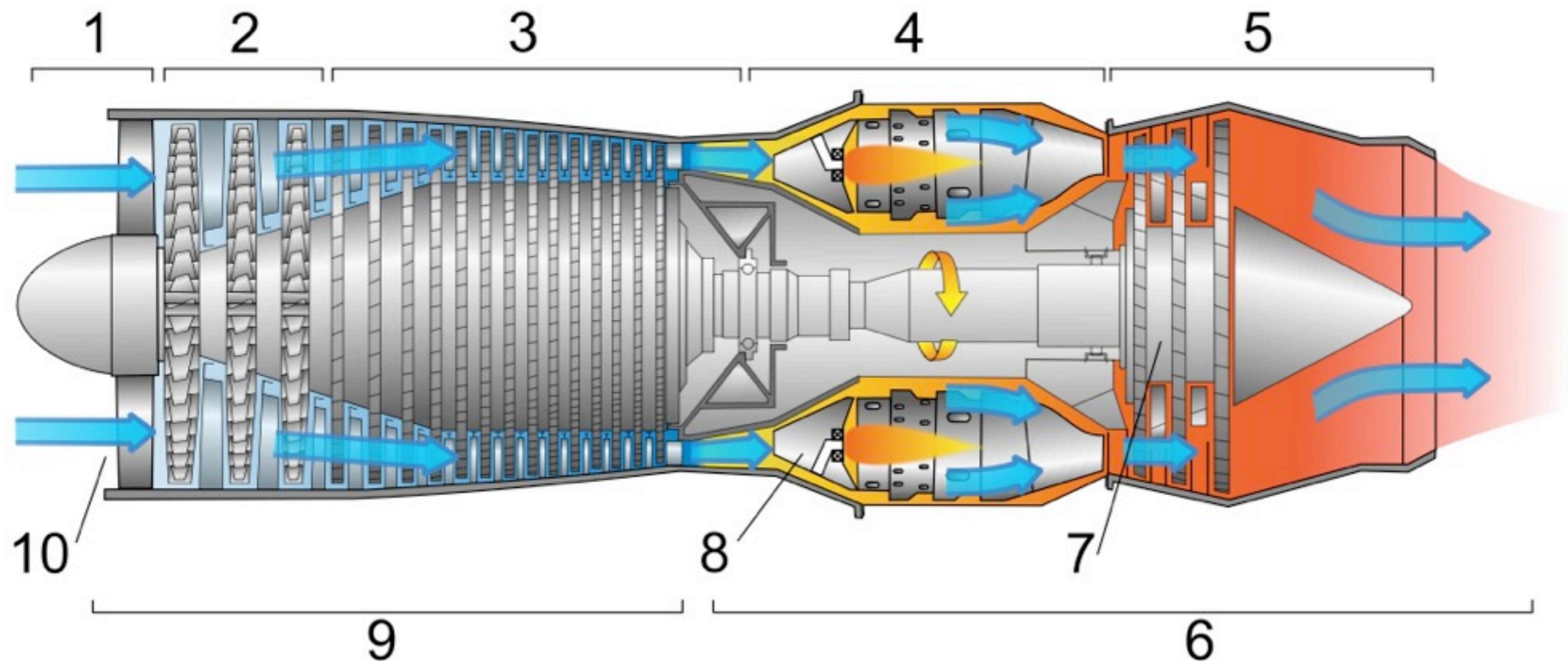


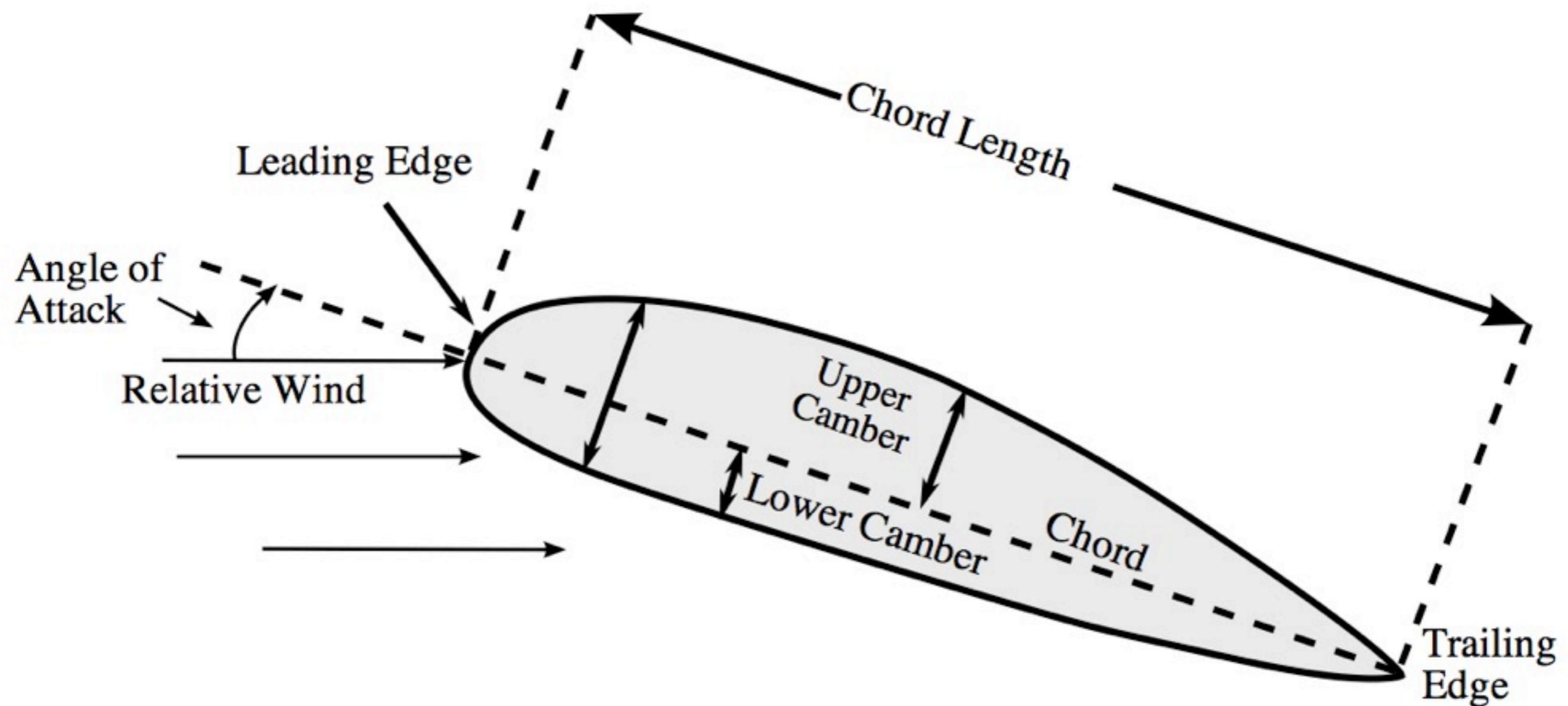
Source: Wikipedia

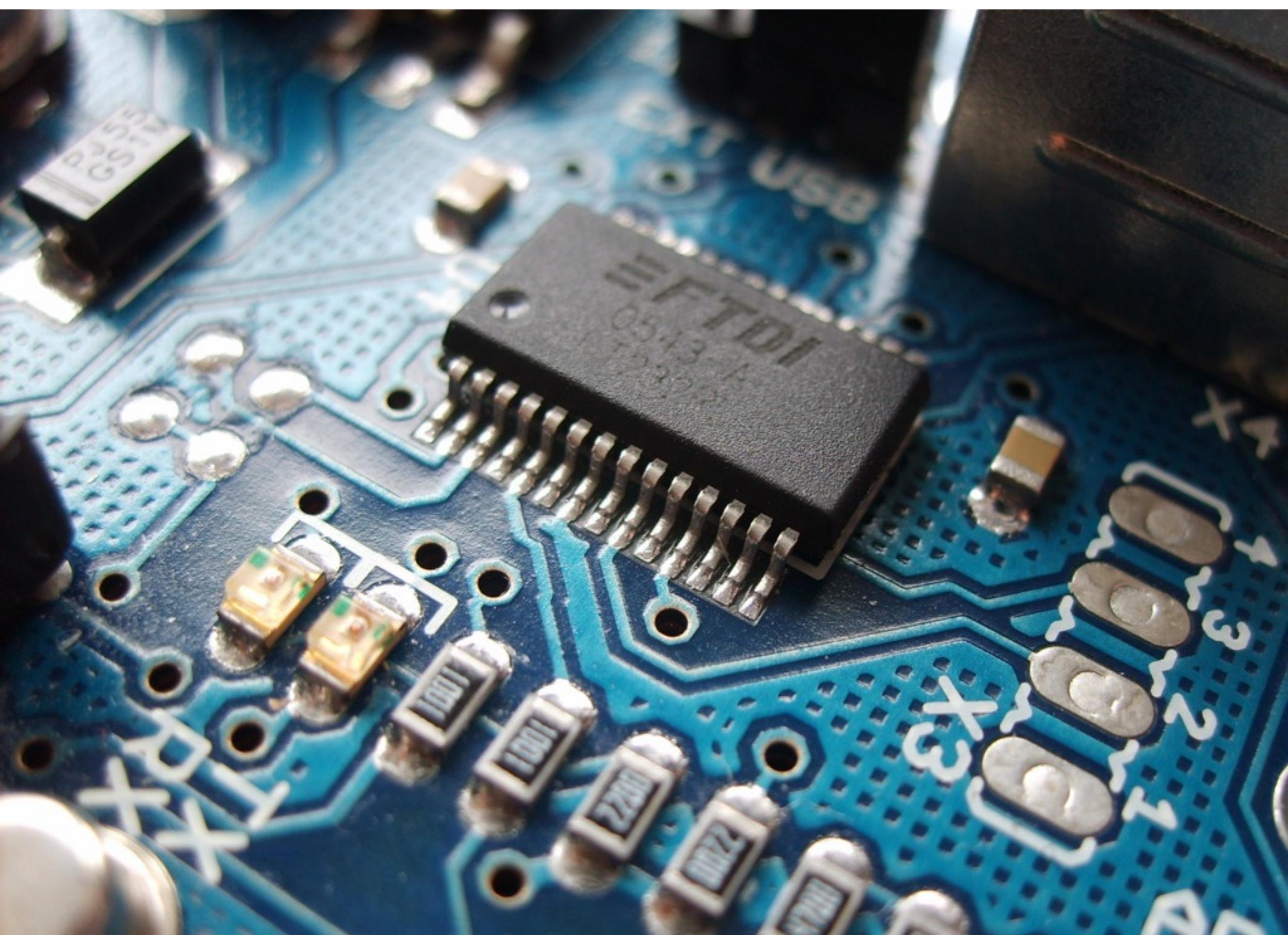


Turbine: Gas turbine, Jet engine, Steam turbine, Water turbine, Wind generator, Windmill  
(1. Intake 2. Low pressure compression 3. High pressure compression 4. Combustion 5.  
Exhaust 6. Hot section 7. Turbines Low and High pressure 8. Combustion chambers 9. Cold  
section 10. Air inlet)

PHP Machines by Owen Mundy



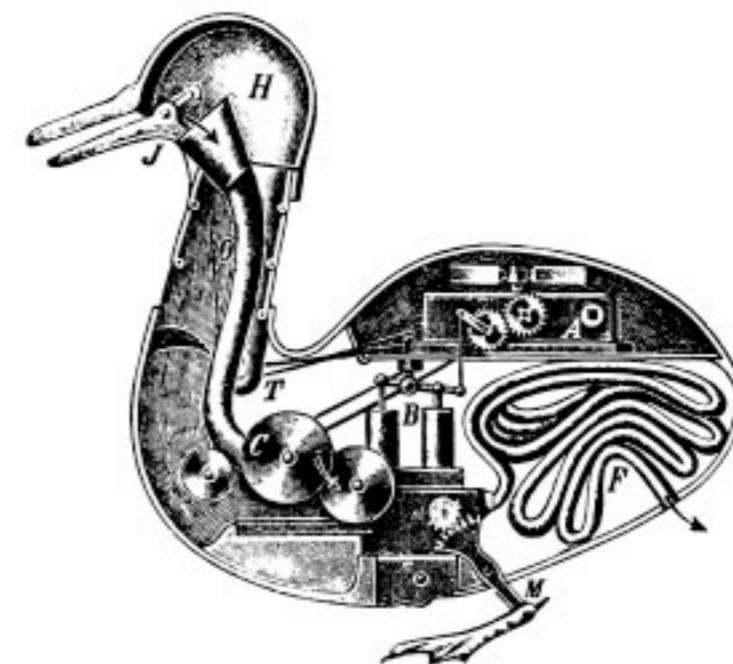






# Automaton

- An automaton is a self-operating machine.
- The word is sometimes used to describe a robot, more specifically an autonomous robot.

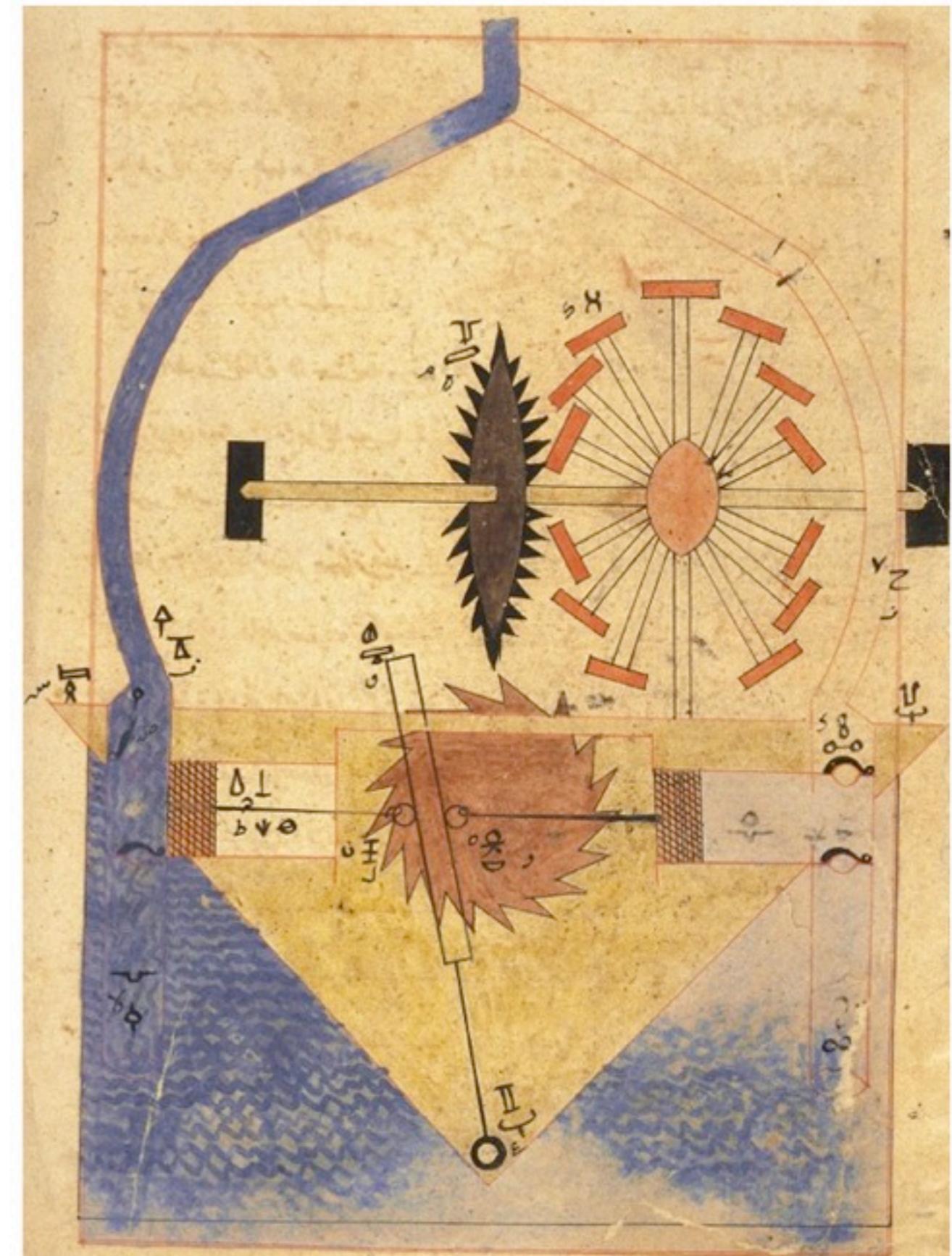
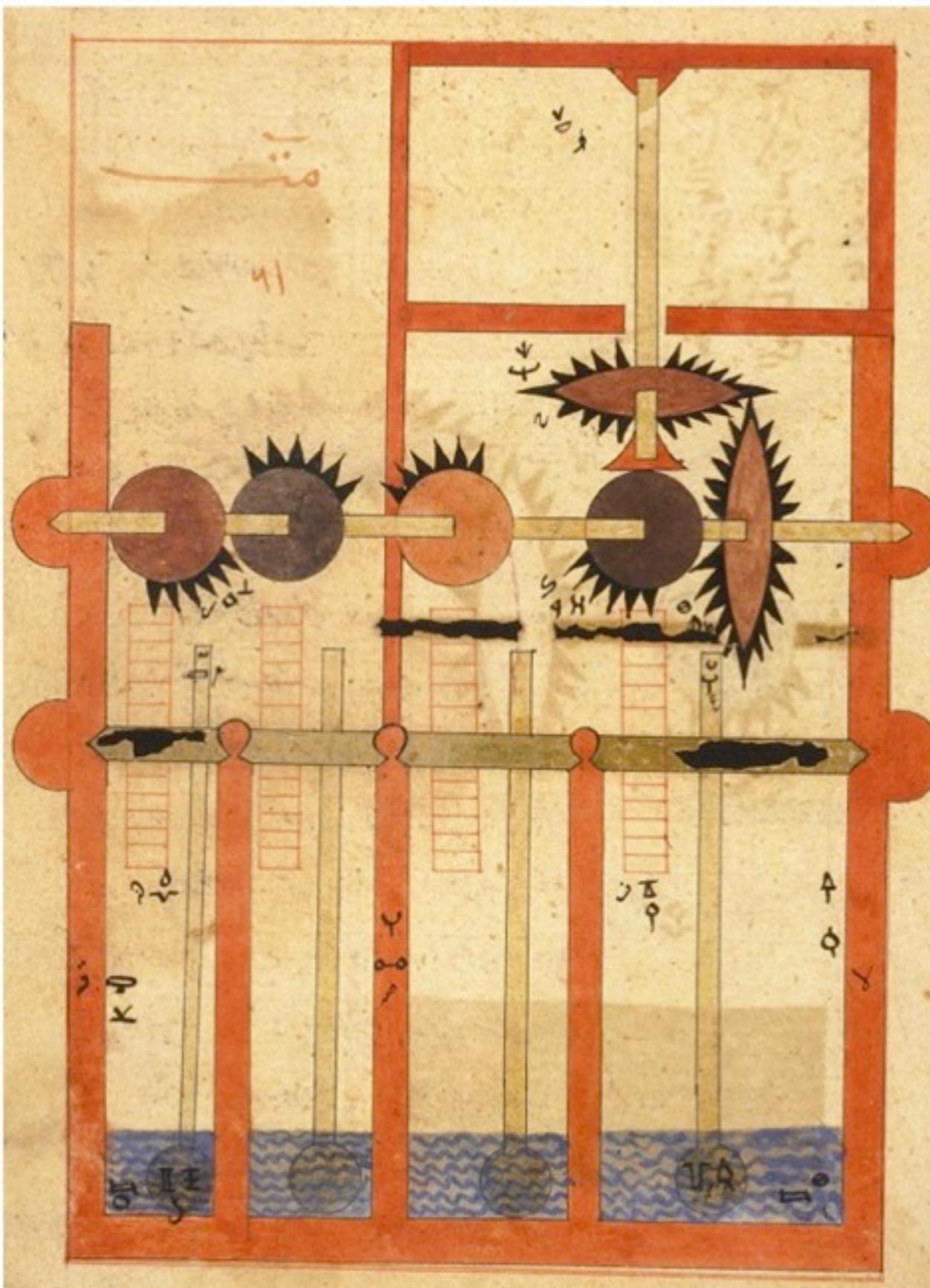


# Web Application

- A web application or webapp is an application that is accessed via a web browser over a network such as the Internet or an intranet.
- It is also a computer software application that is coded in a browser-supported language (such as HTML, JavaScript, Java, etc.) and reliant on a common web browser to render the application executable.

# Create schematics

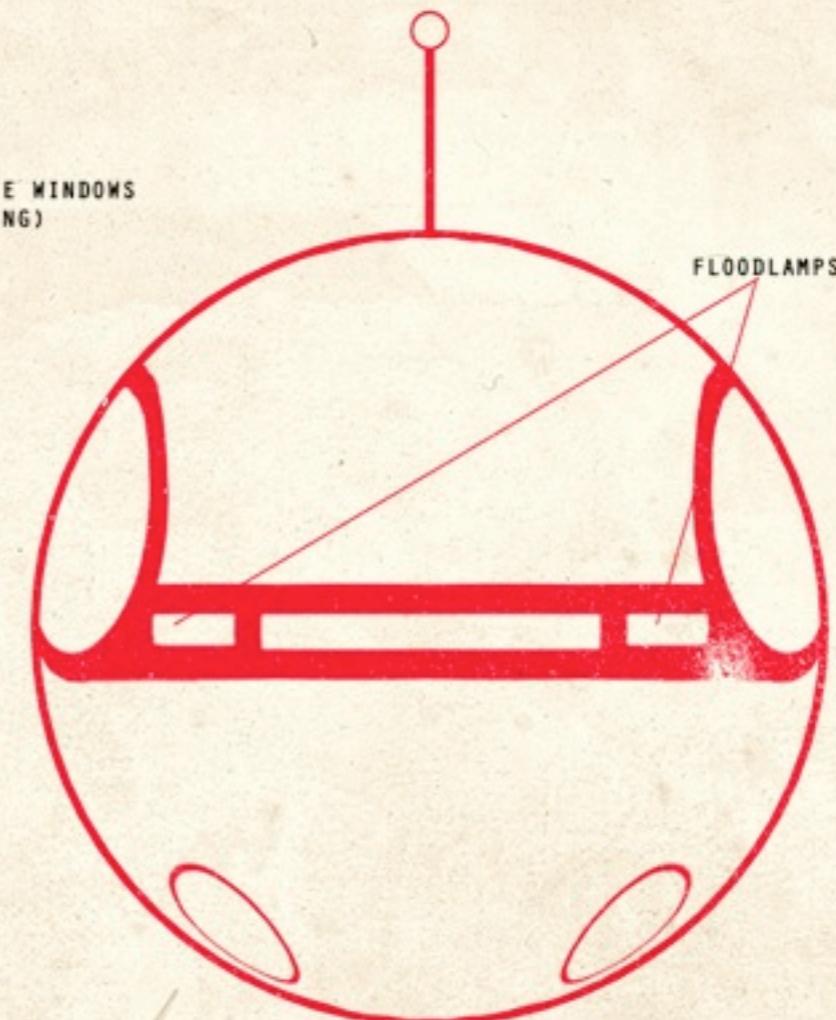
- <http://images.google.com/images?q=machine+schematics>



# T.O.T. TEMPORAL OSCILLATING TRANSPORT SCHEMATICS

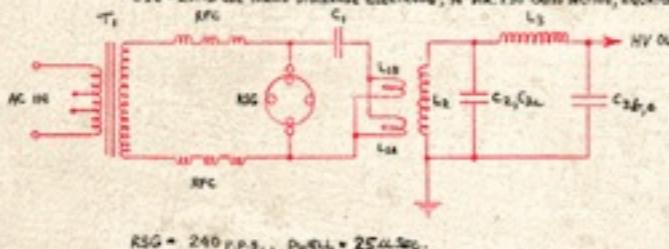


SIDE VIEW



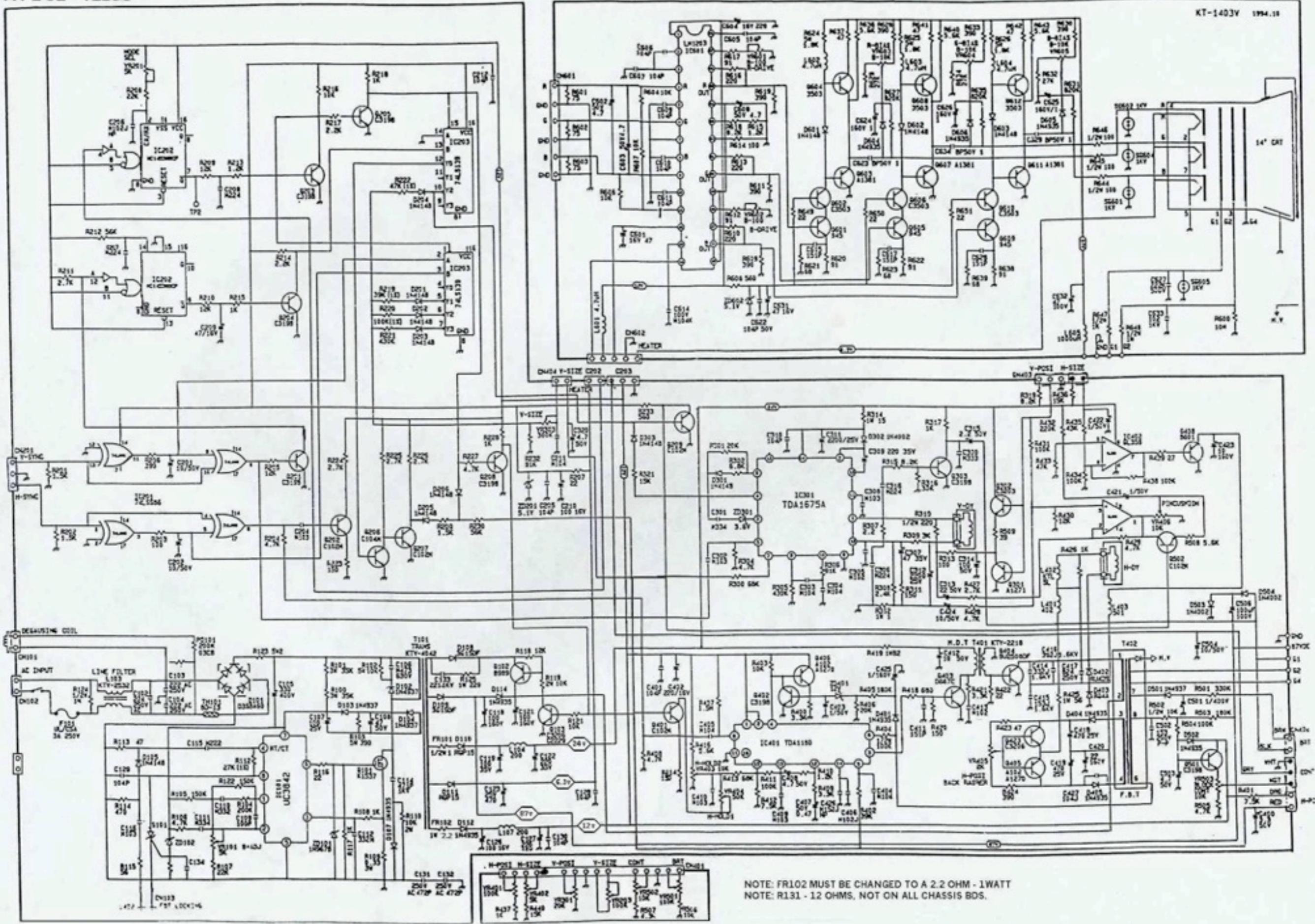
FRONT VIEW

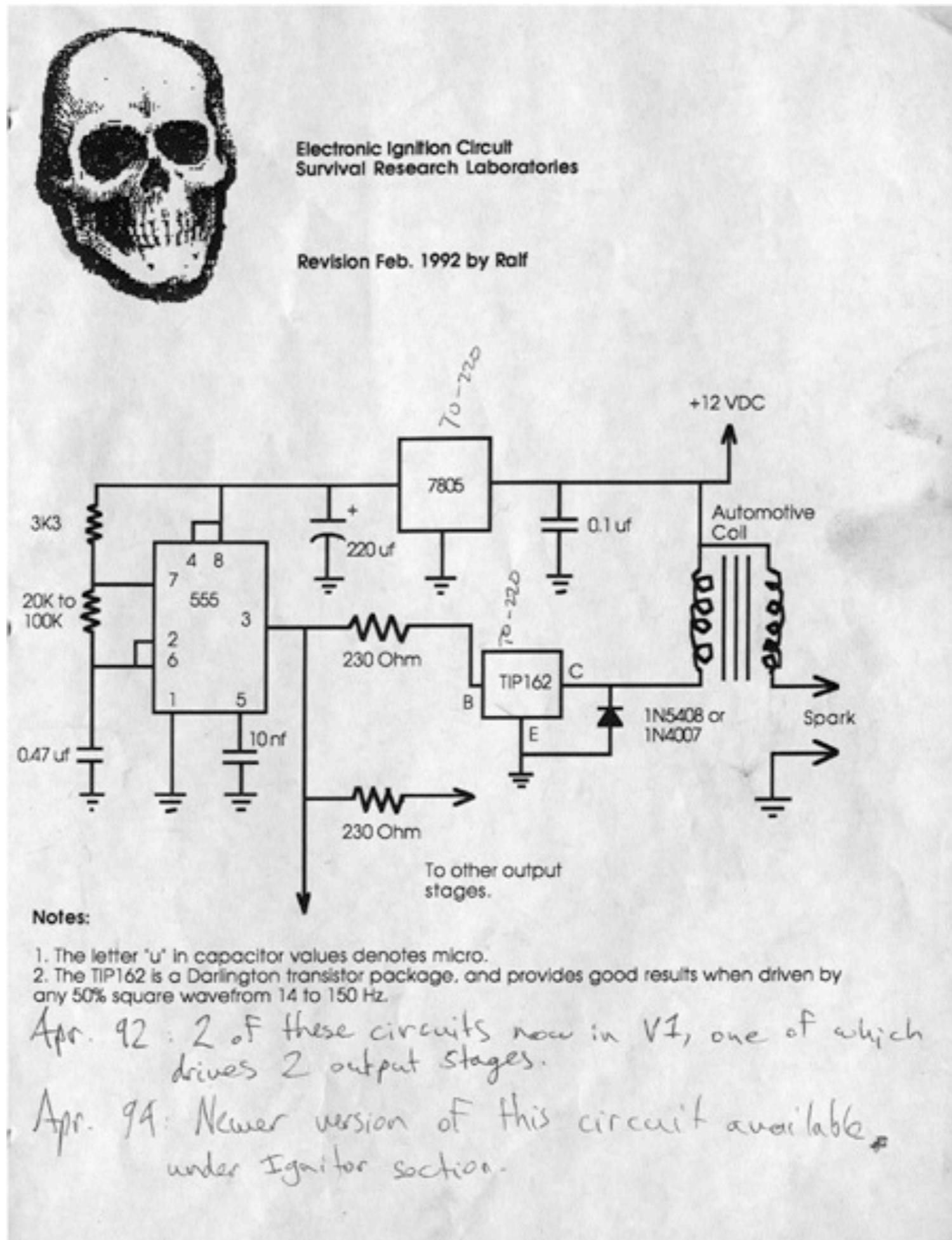
$T_1 = 100\text{ kVA}$  (CONTINUOUS) 36 KV OUT, VARIABLE.  
 $L_{1A}, L_{1B} = 500,000 \mu\text{H}, 452'' \text{ LENGTH EA., } 144'' \text{ DIA., } 2'' \text{ HELIX SPACING, CENTER TO CENTER, } 1 \text{ TURN}$   
 BIFILAR.  
 $L_2 = #4 AWG, 11.04'' \text{ LENGTH, } 120'' \text{ DIA., } 1.8'' \text{ HELIX SPACING, } 30 \text{ TURNS, } 60'' \text{ HIGH (COIL ONLY).}$   
 $L_3 = #2 AWG, 11.04'' \text{ LENGTH, } 46'' \text{ DIA., } 0.8'' \text{ HELIX SPACING, } 150 \text{ TURNS, } 120'' \text{ HIGH (COIL ONLY).}$   
 $C_1 = ADJUSTABLE, 0.04 \mu\text{F} \text{ TO } 0.26 \mu\text{F} @ 50\text{VAC RMS; TARGET VALUE } 0.16 \mu\text{F.}$   
 $C_2 = 500\text{-Cell Tranzistor Capacitor Tap Knob, } 1 \text{ TURN NON-SHORTING, } 4\frac{1}{2}'' \text{ LENGTH, } 12.4'' \text{ DIA. X } 11.8'' \text{ HIGH ABOVE GROUND.}$   
 $C_{2A} = 500\text{-Cell Tranzistor Capacitor Bottom Knob, } 1 \text{ TURN NON-SHORTING, } 4\frac{1}{2}'' \text{ LENGTH, } 71'' \text{ DIA. X } 46'' \text{ HIGH ABOVE GROUND.}$   
 $C_{2B} = 500\text{-Cell Tranzistor Capacitor Top Knob, } 1 \text{ TURN NON-SHORTING, } 19.5'' \text{ LENGTH, } 71'' \text{ DIA. X } 115'' \text{ HIGH ABOVE GROUND.}$   
 $C_{2C} = 500\text{-Cell Tranzistor Discharge Electrode, } 9'' \text{ DIA. X } 30'' \text{ CAGE DEPTH, EQUAL, } 115'' \text{ HIGH ABOVE GROUND.}$

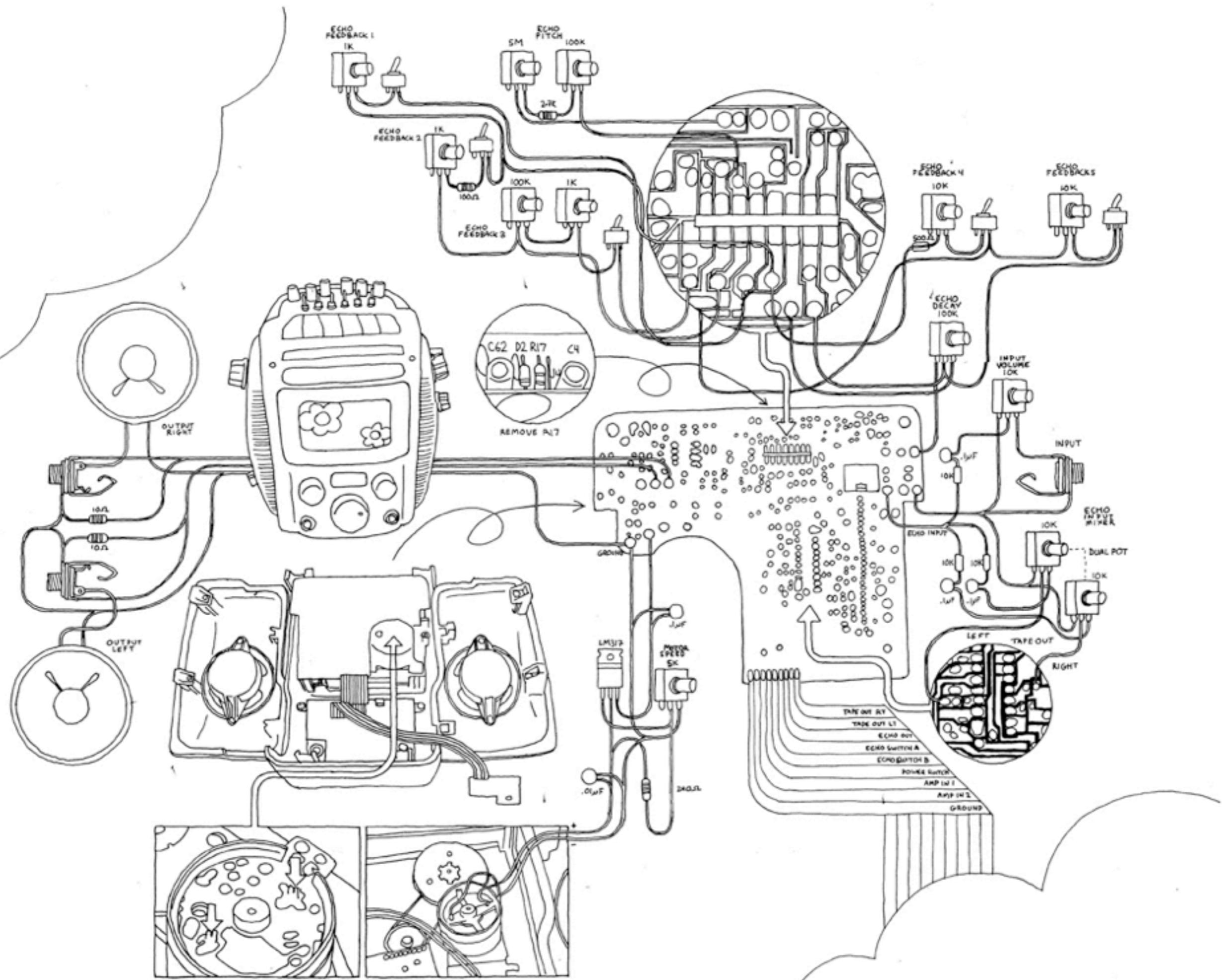


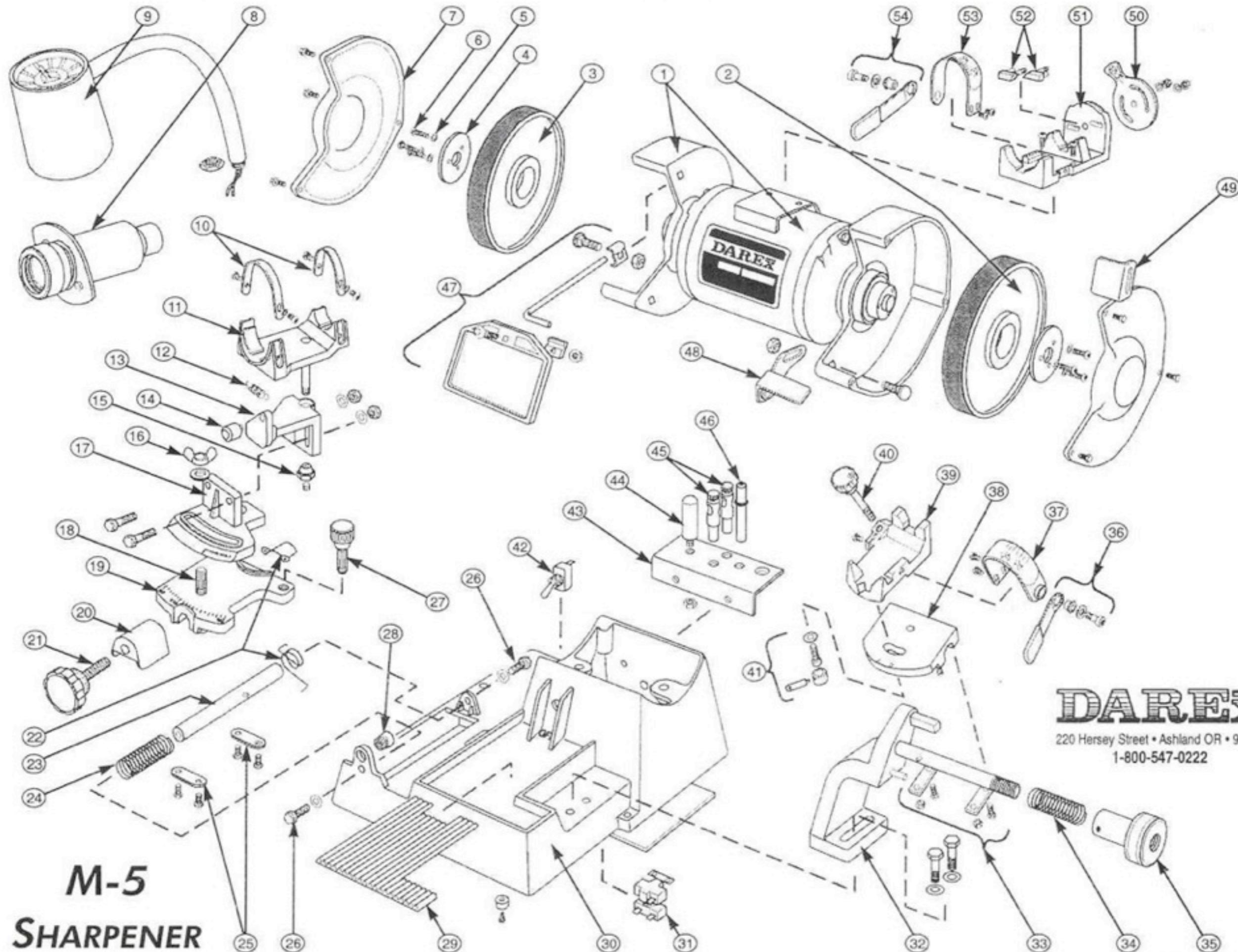
FLUX DISPERSAL CURRENTS

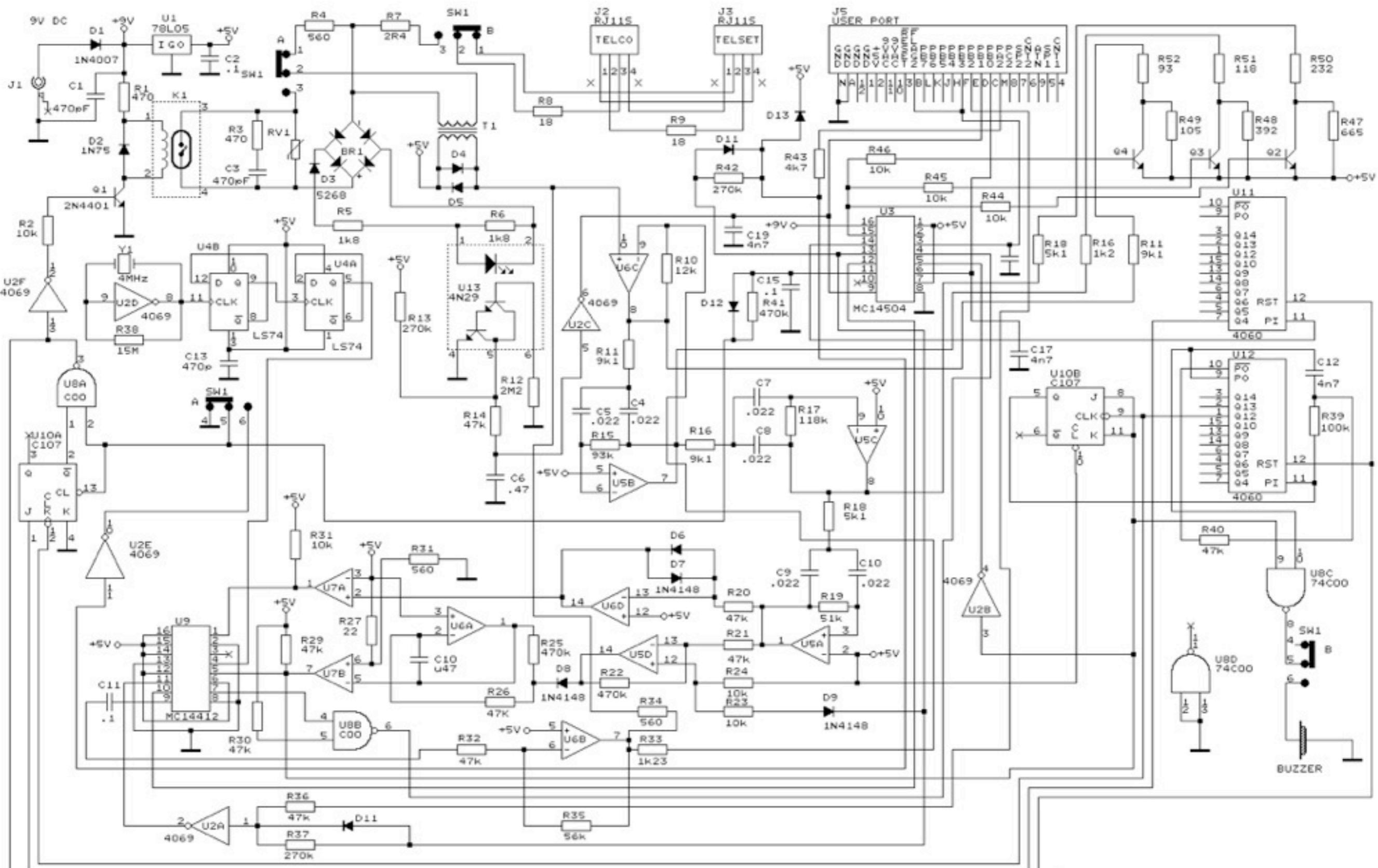
**TYPE 51 - TELCO**



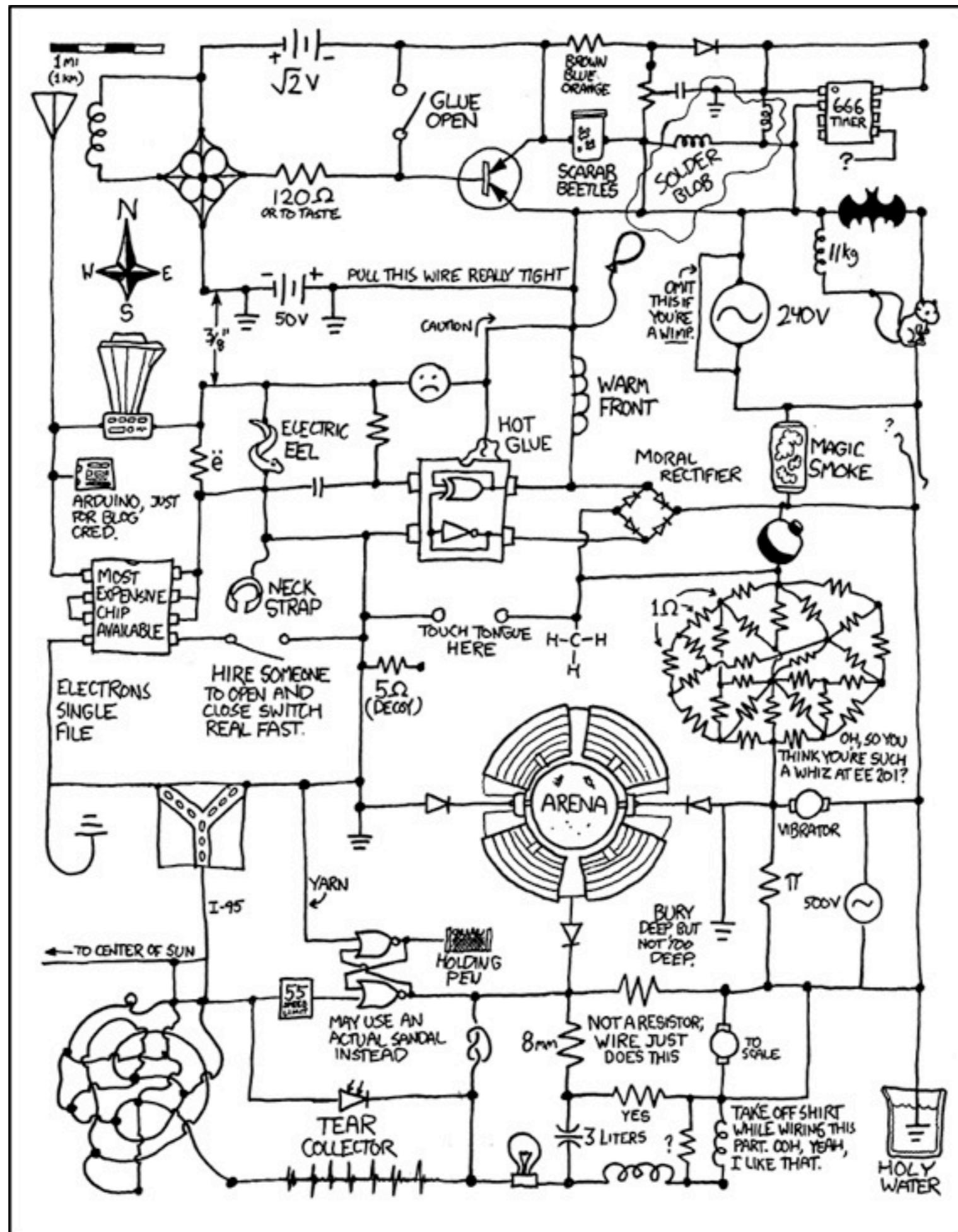






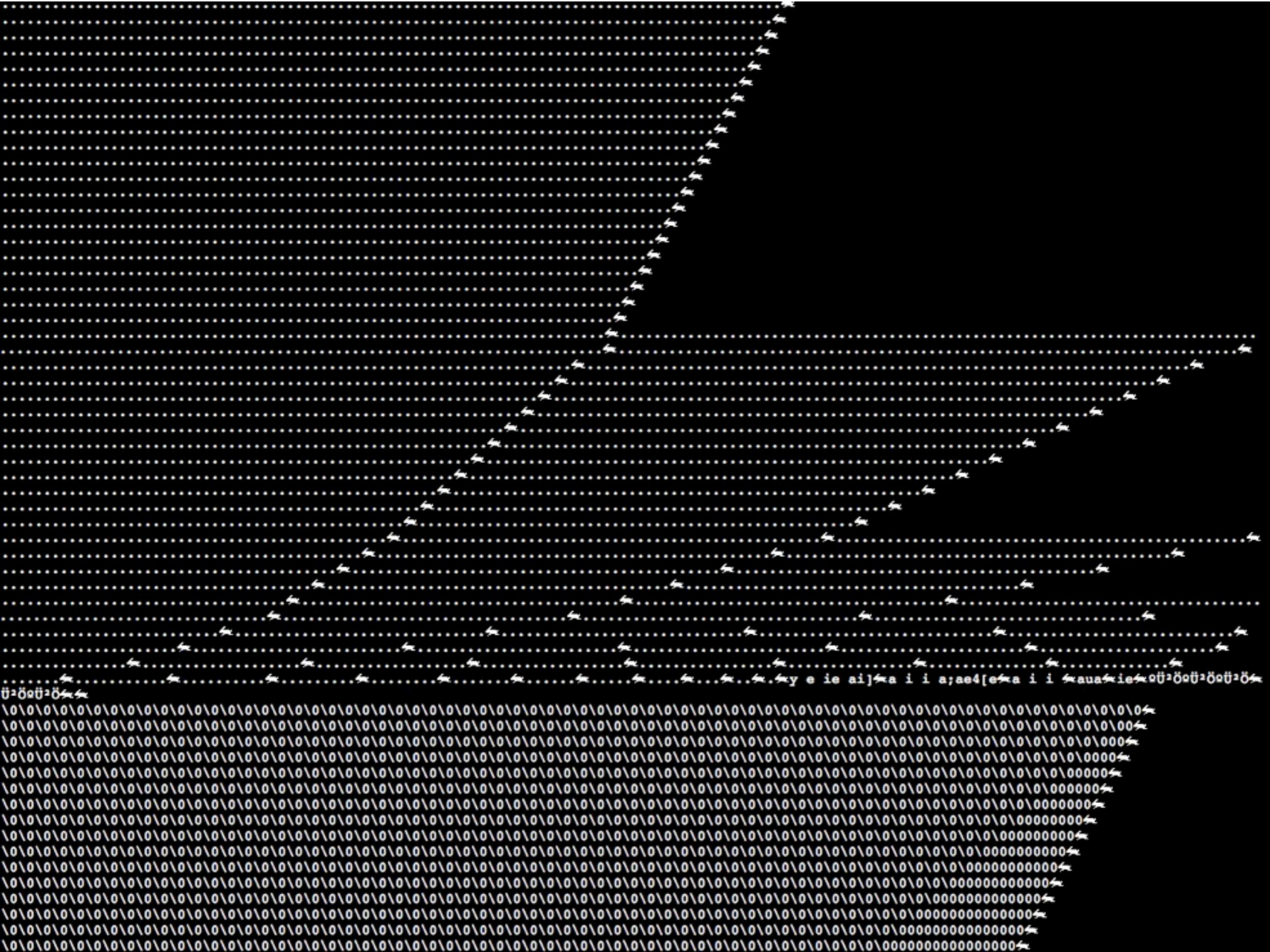


Title MARK VII AUTO 232 300 BAUD MODEM FOR PET  
Size Draughtman RE  
A3 Jerzy SOBOLA 1  
Date: February 11, 1999 Sheet 1 of



# Formal disfunction

- Glitches: projects that play with the idea of chance, random occurrences, or unexpected events.









AU. RAIN

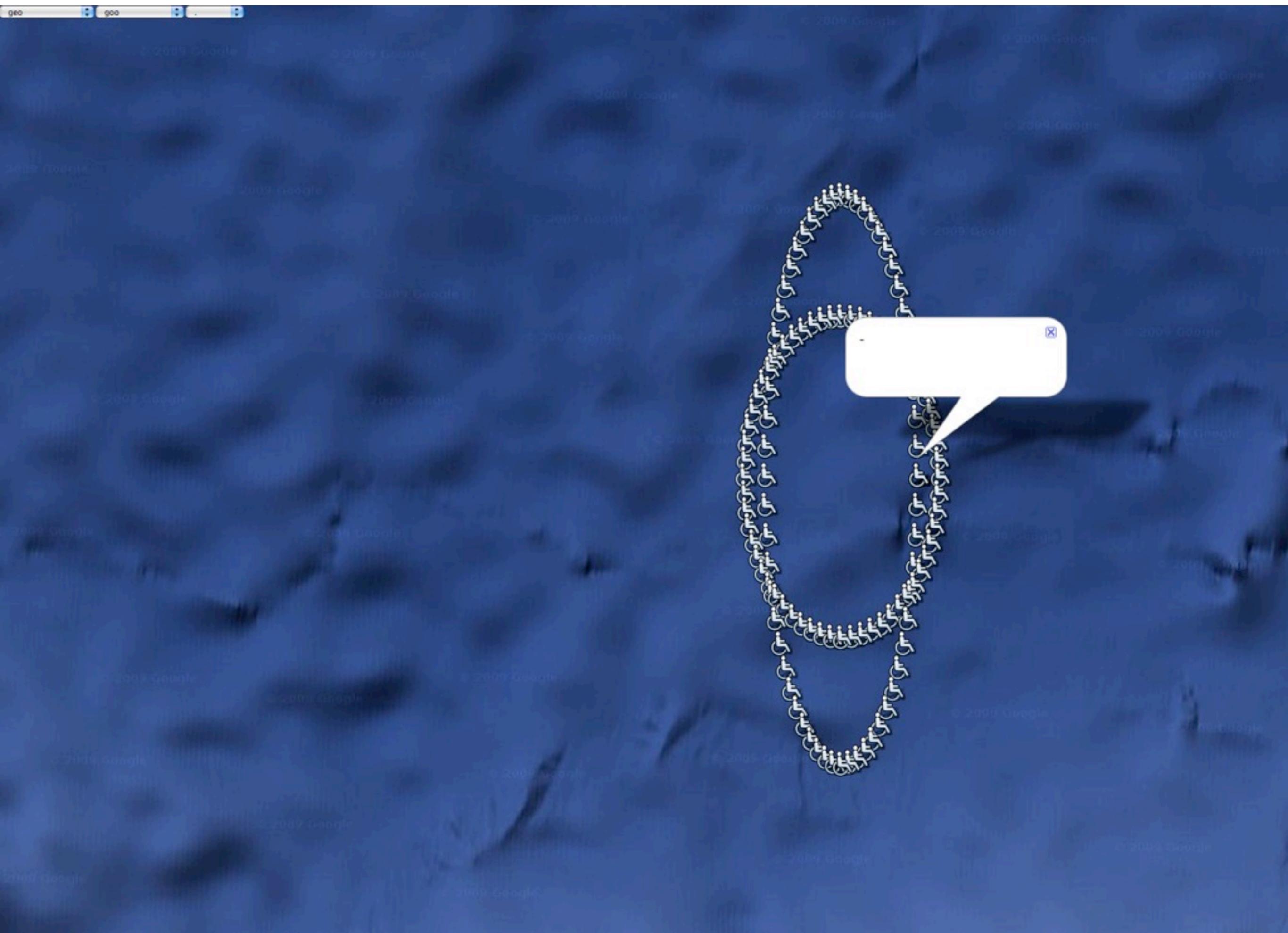
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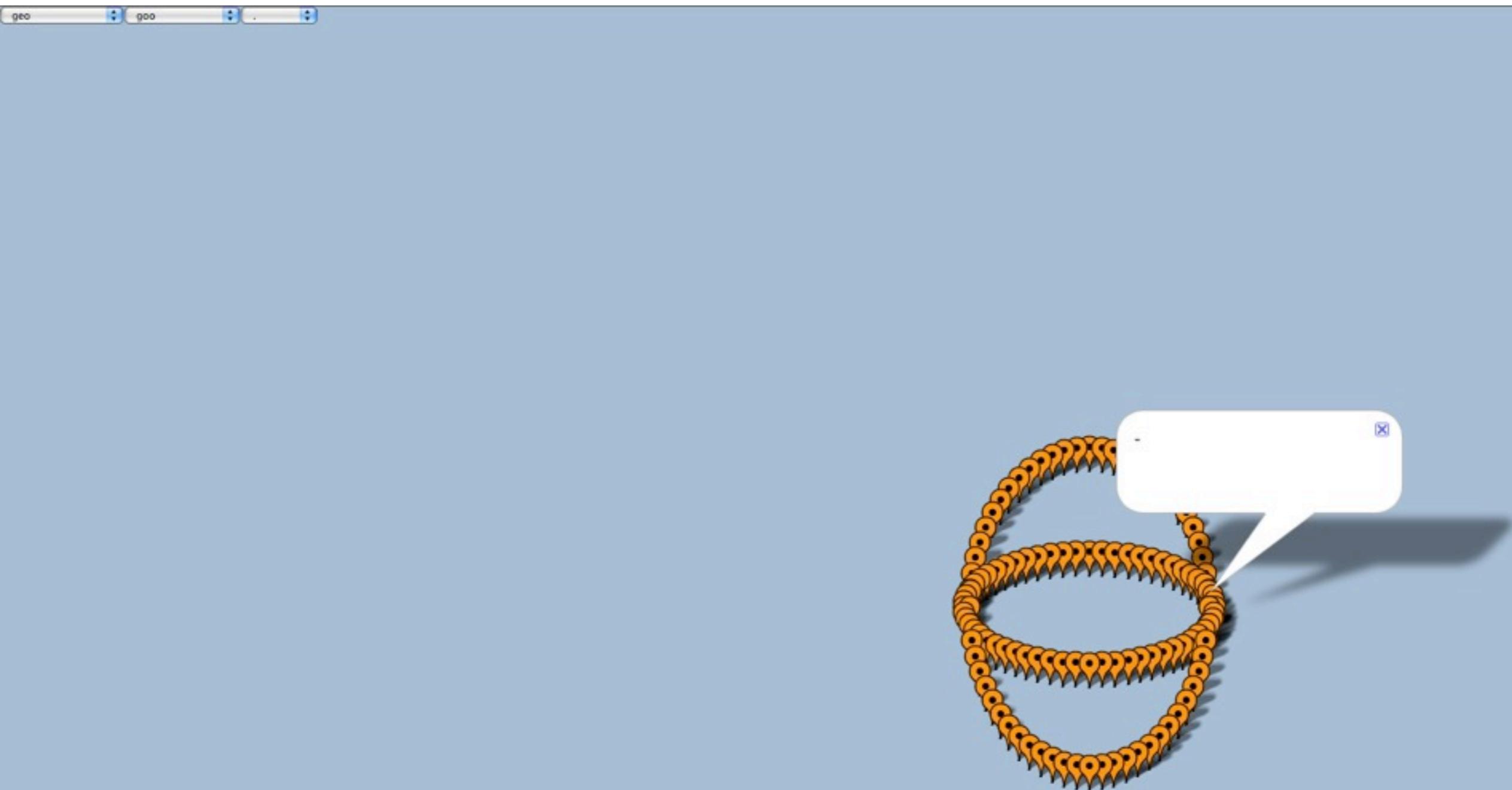
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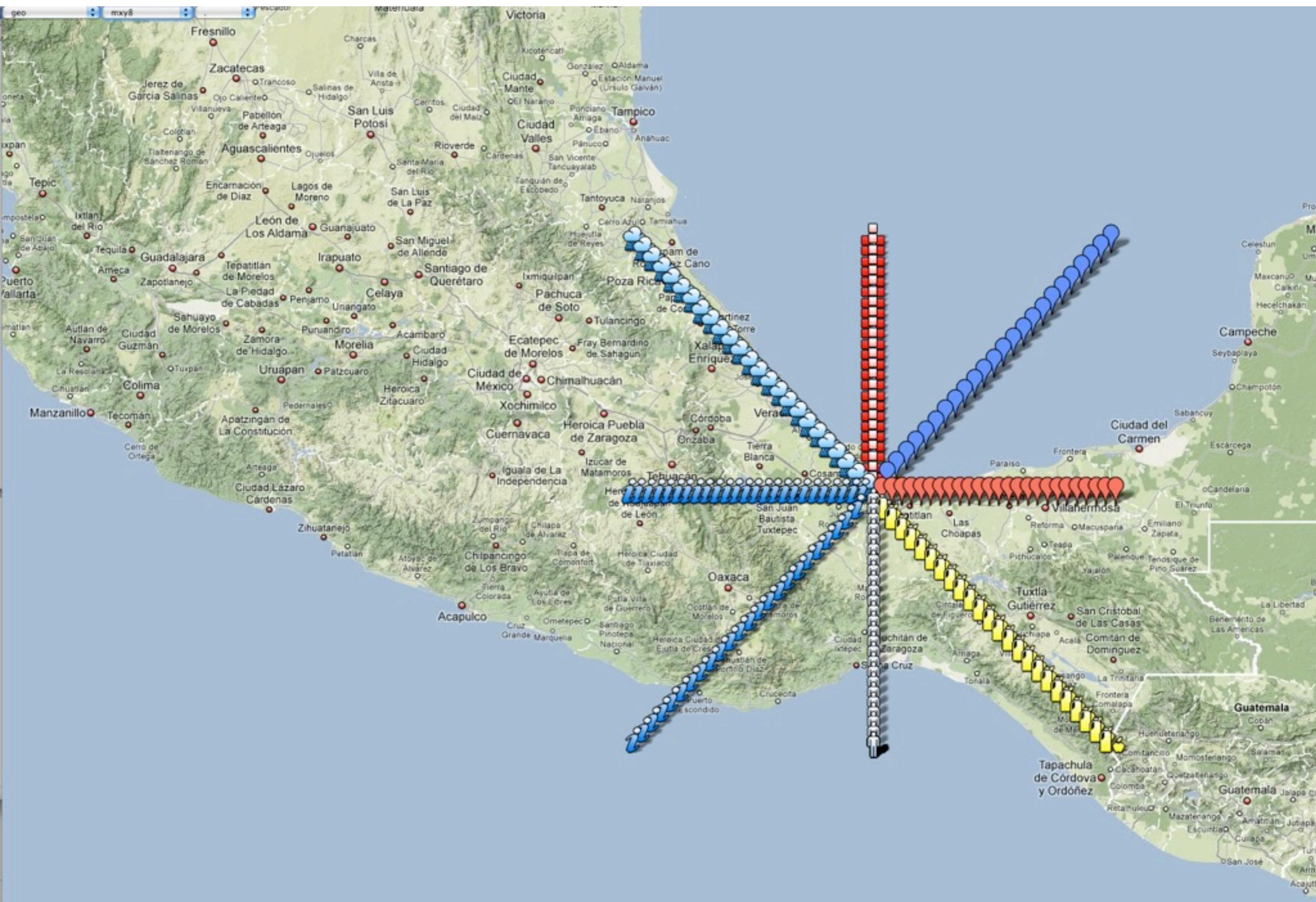
**28%**

## **RE:MODELS - INF**







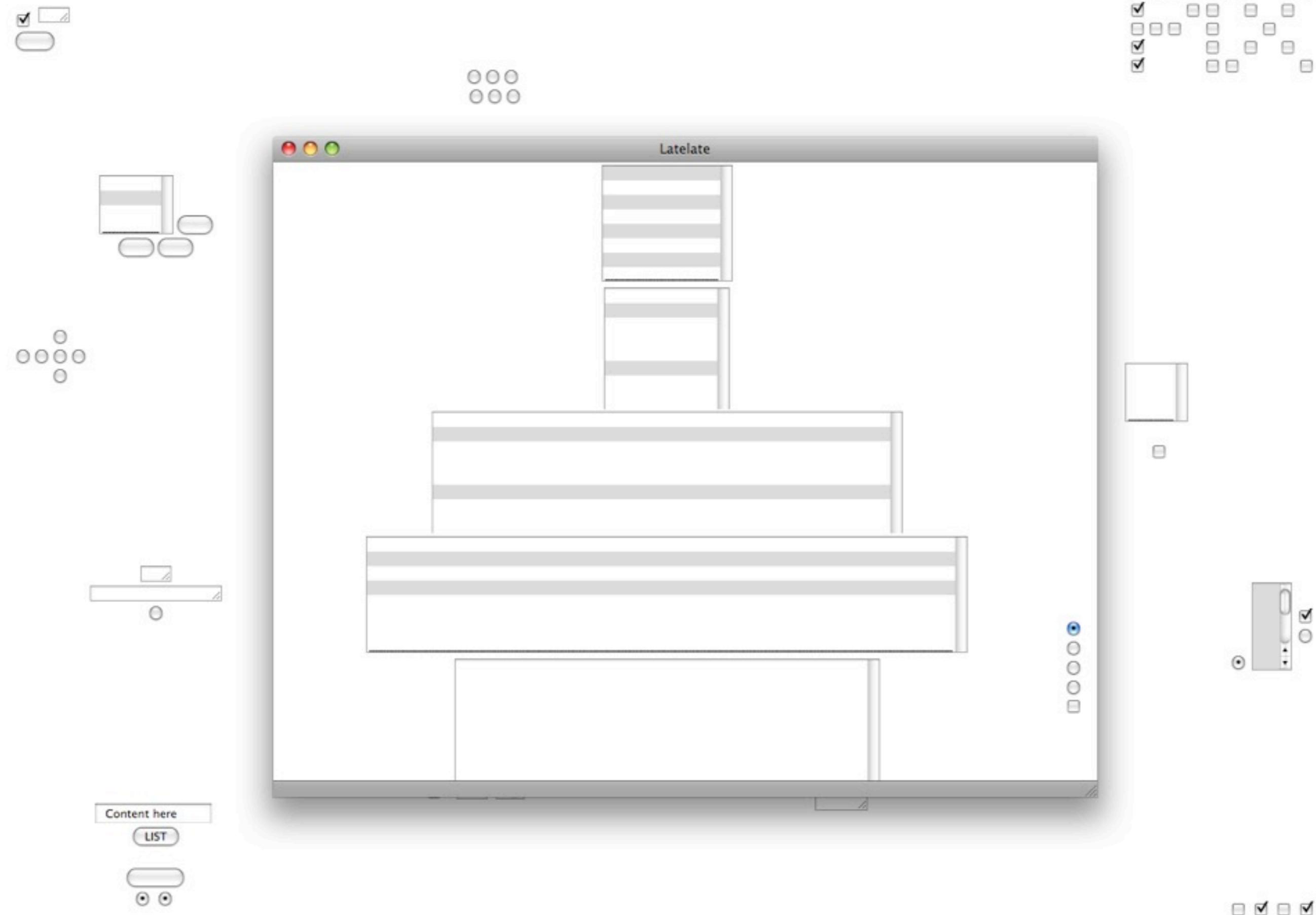




# Choose

PHP Machines by Owen Mundy



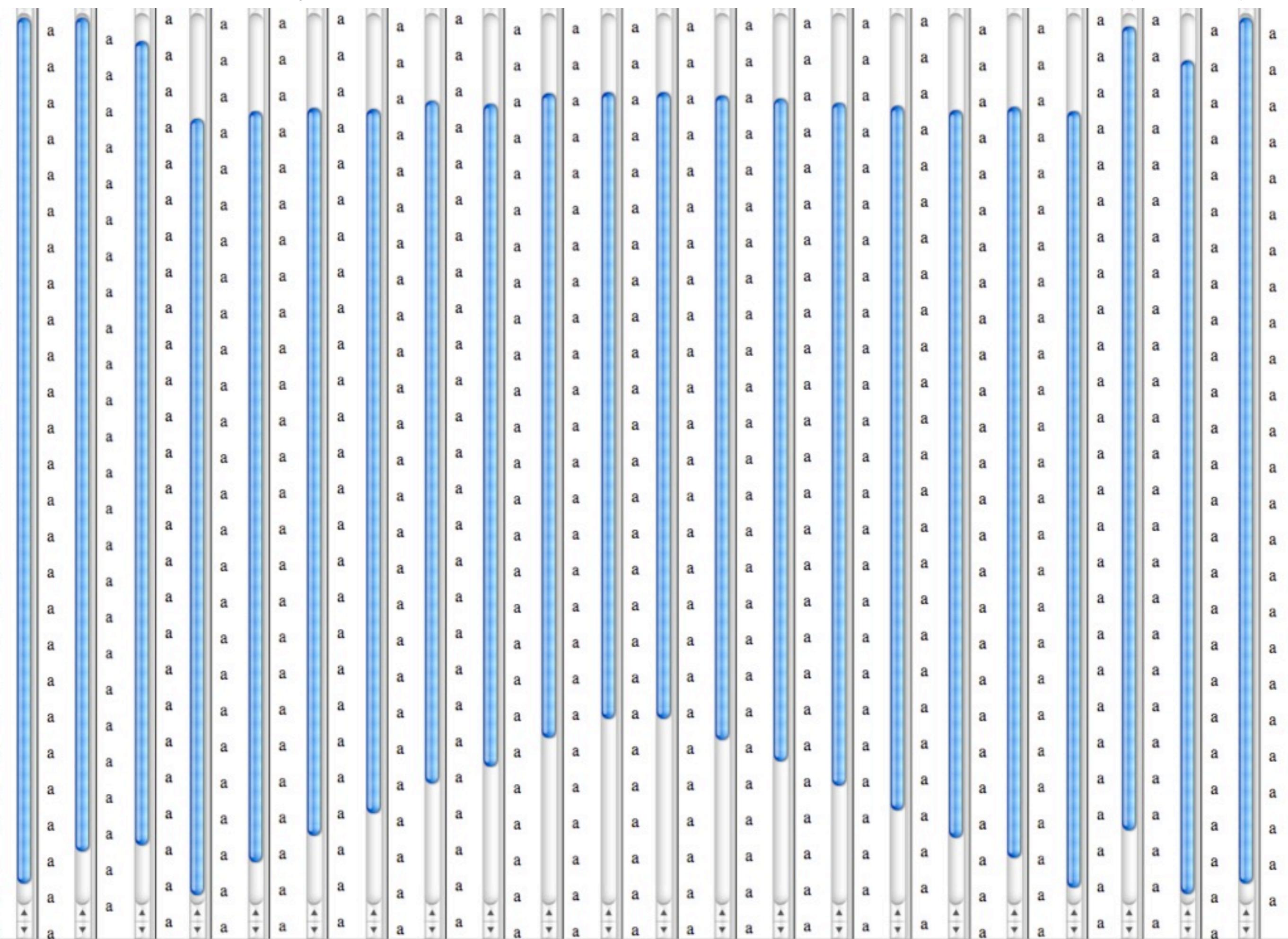


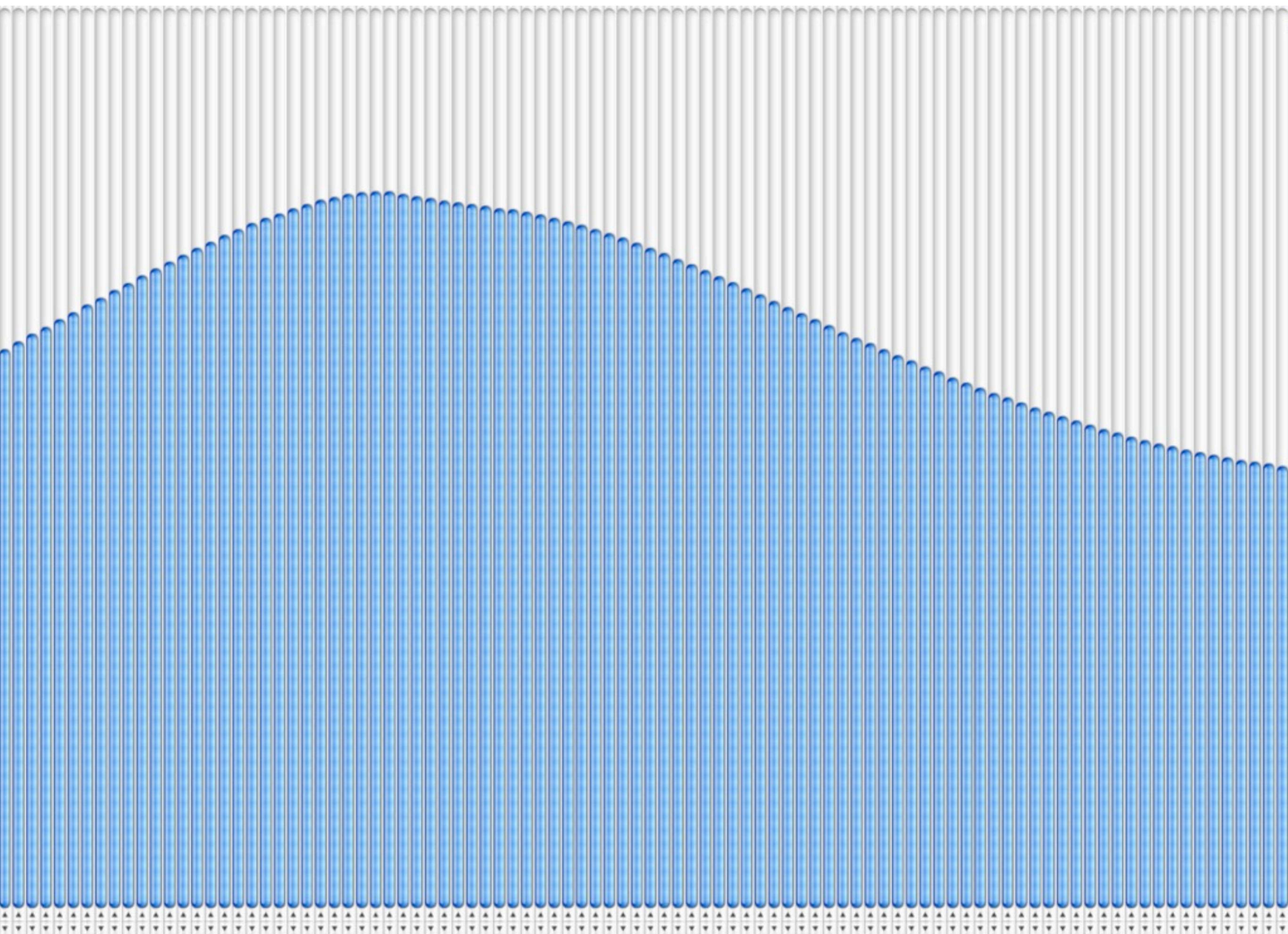




untitled scroll #2 (2007) by Chris Collins

PHP Machines by Owen Mundy





# Formal disfunction

- Viruses and degradation: purposeful deconstruction of the experience



## TEXT SQUEEZER

[all](#) | [next >](#)

For those that cannot stand to read a long email or text, this little service takes a text and reduces it to all the first letters of the words. Whether what results is something that is legible and actionable is up to the observer.

Or, as I like to say on some occasions, "*Fttcs tral eott lsta tari tat. Flo twwwr istil aaiu tto.*"

For those that cannot stand to read a long email or text, this little service takes a text and reduces it to all the first letters of the words. Whether what results is something that is legible and actionable is up to the observer.

[Reduce](#)

Copyright 2007, John Maeda.



**every time someone visits this page, one of the characters that make up the html code gets either deleted or replaced. this causes a step-by-step degeneration, not only of the page's content, but also of its structure.**

**one day, all this text will be unreadable. this will happen slowly or quickly, depending on how this page is visited. it will not be a natural decomposition: it will be the effect of code that lies within. like an unstoppable disease, this code will eventually render the page sick and crippled.**

**¿repeated viewing can kill? ¿are our eyes predators of their targets?**

**your visit will leave a permanent mark. this page will not be the same after you visit it.**

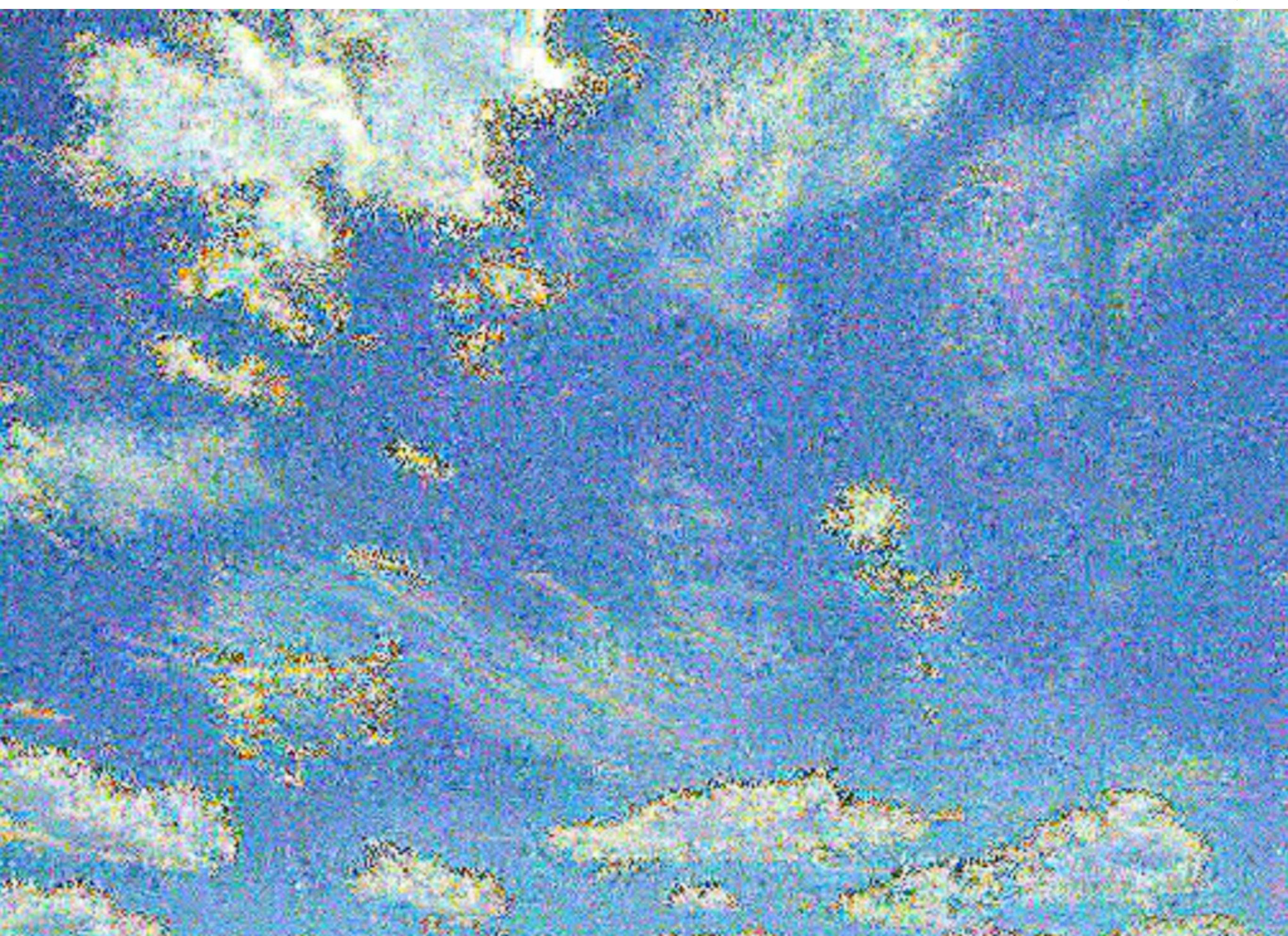
**the only hope for this page to survive is that nobody visits it. but then, if nobody does, it won't even exist. ¿does this happen with all the products of visual culture? ¿why is everything getting renewed constantly? ¿does everything contain the seed of its own destruction?**

**¿is visual culture a ritual of cannibalism and rebirth?**

**the only way to aim for permanence is through constant change**

**seeing is not an innocent action. seeing is not an innocent action. seeing is not an innocent action. seeing is not an innocent action.**

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s\*r f-\_siz="" fac=A\*ial\*H-v\_t-\*sa\*s\_\*>\*\_r-i\* s\*mone i-\* h-e-\* th\_\*  
\*-h ht\_\* -e gets\*e\_ther e\*eted o- -l\_ced.t \*-ca ses a se\*- -t-de-e\*a\*i -n\*t\_\* of  
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# Formal disfunction

- Bots
- Automaton on the computer.

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**En 1966, nace en Concepción Radio Bío-Bío, la red radial más extensa de Chile.**

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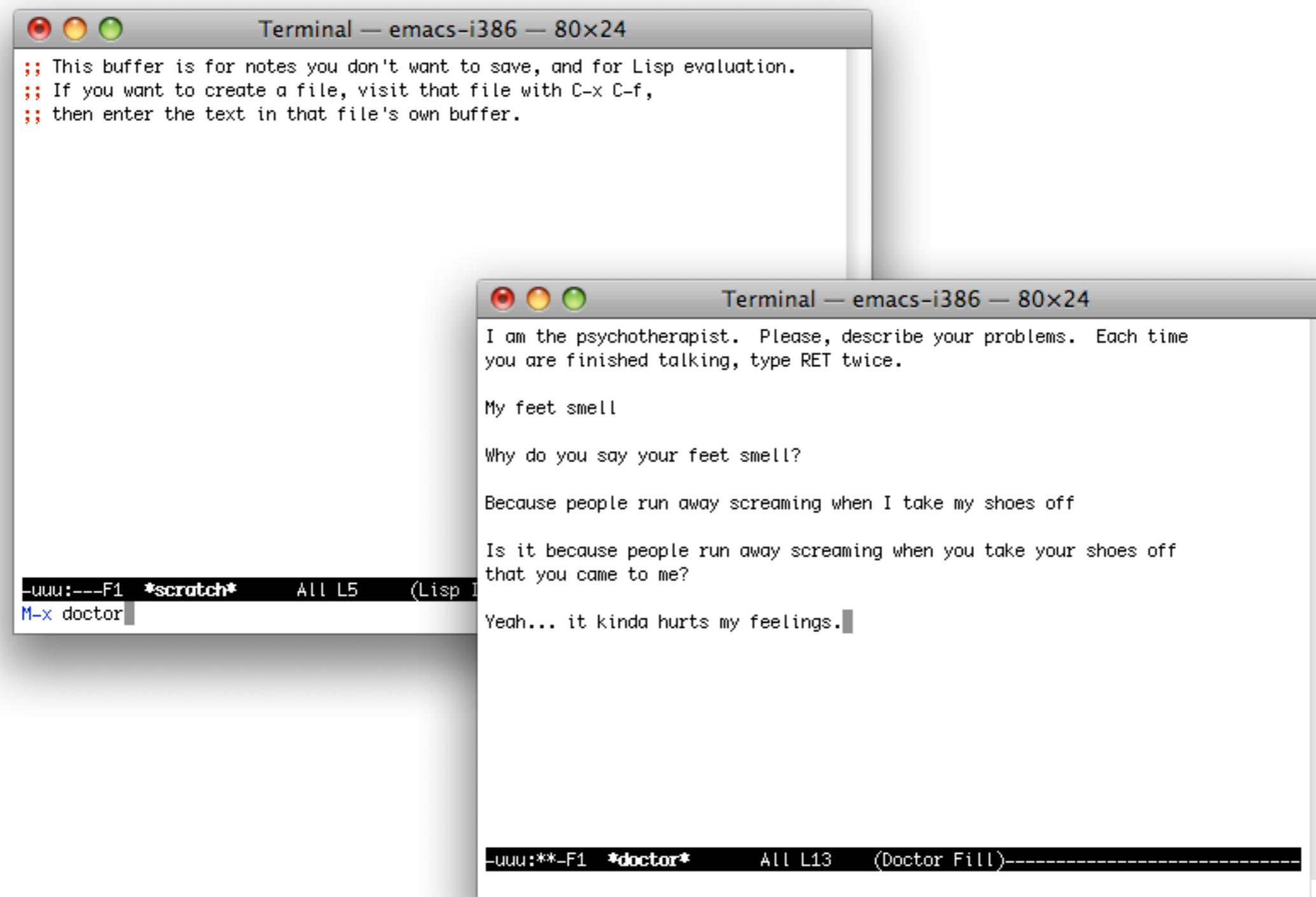
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**En 1966, nace en Concepción Radio Bío-Bío, la red radial más extensa de Chile.**



## ELIZA - a friend you could never have before

Eliza: Hello. I am ELIZA. How can I help you?



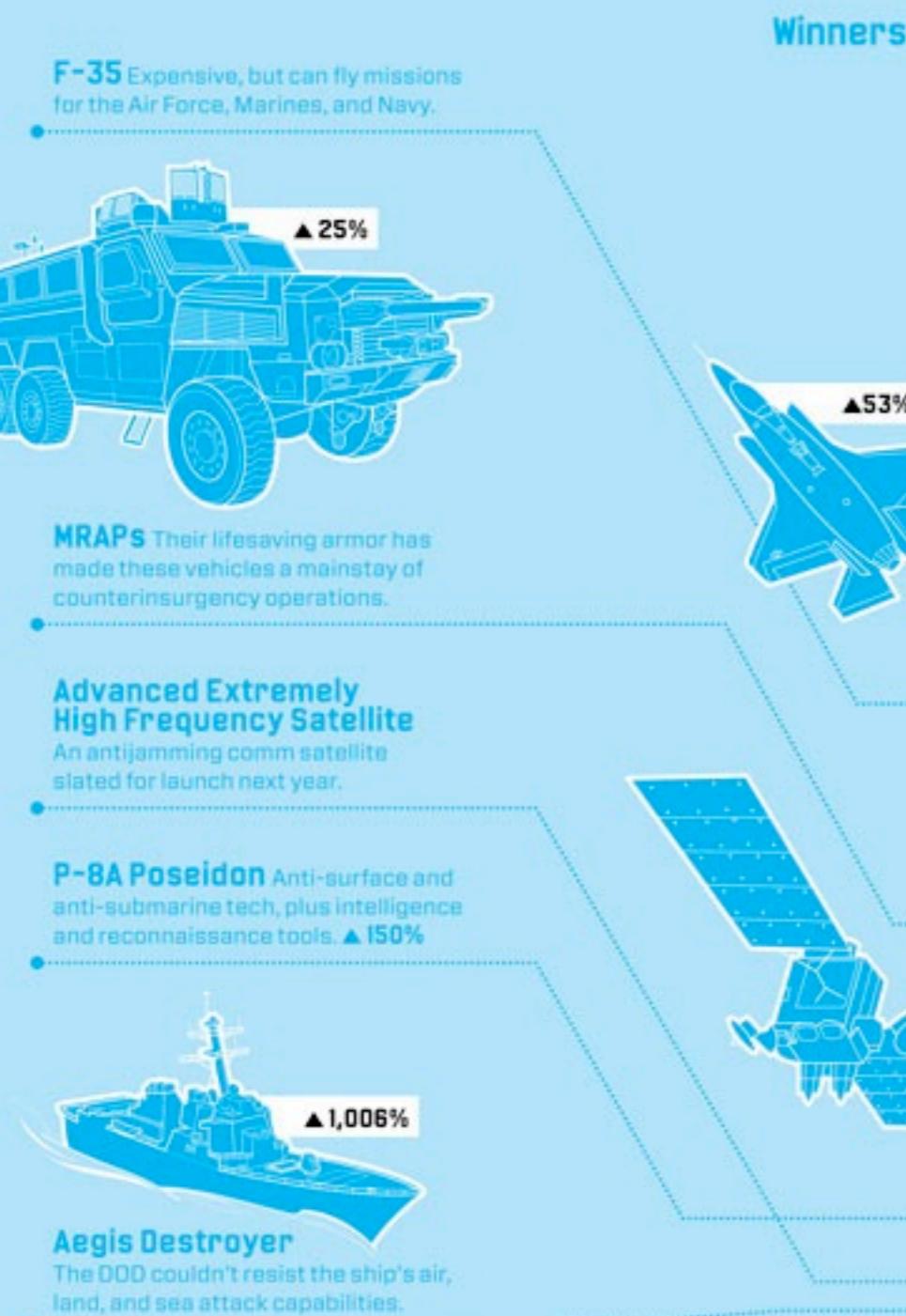
# Physical machines

- From artworks to the everyday

# Budget Wars

The 2010 defense budget request guts billions from pork and tech for future wars. —Erik Malinowski

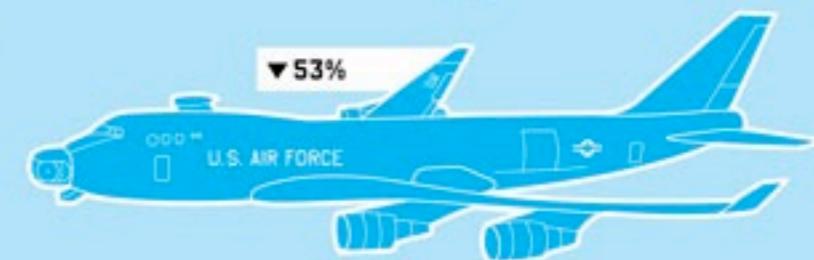
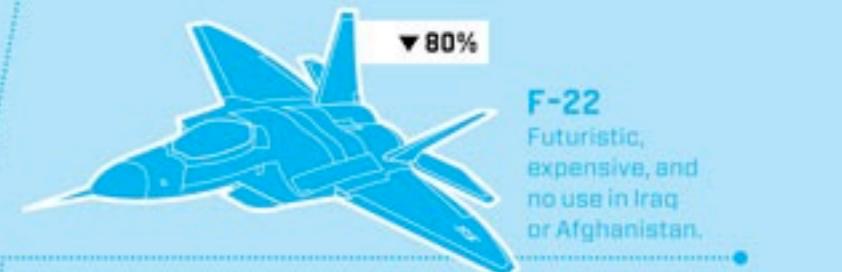
2009      funding in billions      2010



## Losers

**Future Combat Systems** MRAPs made the ground vehicle program redundant. **▼ 17%**

**Anti-IED program** The new focus: troop protection, not bomb-hunting. **▼ 57%**

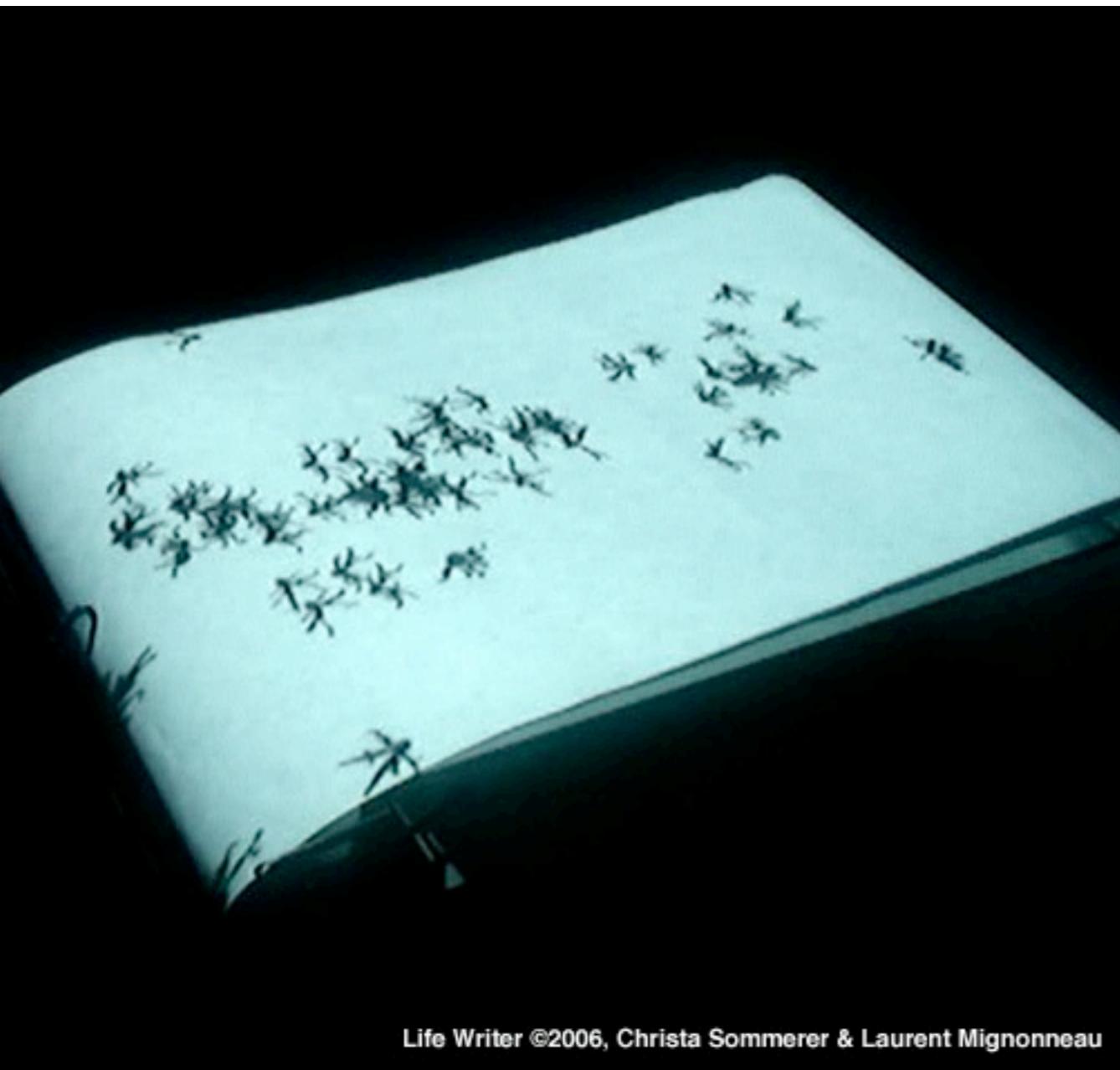


**Airborne Laser** Refocusing on an earlier prototype. **▼ 100%**



**TSAT** Late, over-budget comsat net. **▼ 100%**

**CSAR-X** (combat search and rescue helicopter) No tolerance for single-purpose aircraft. **▼ 100%**

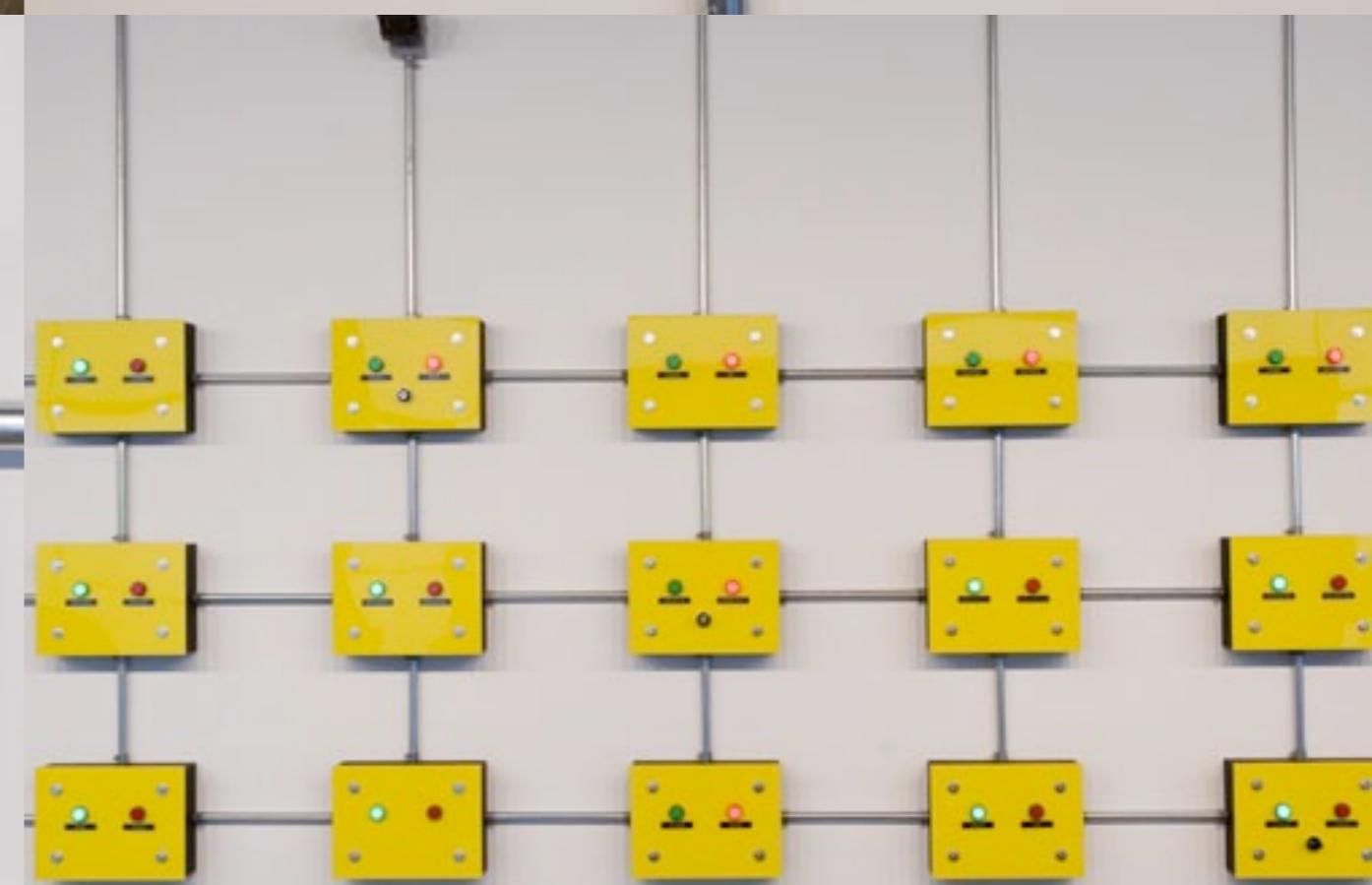
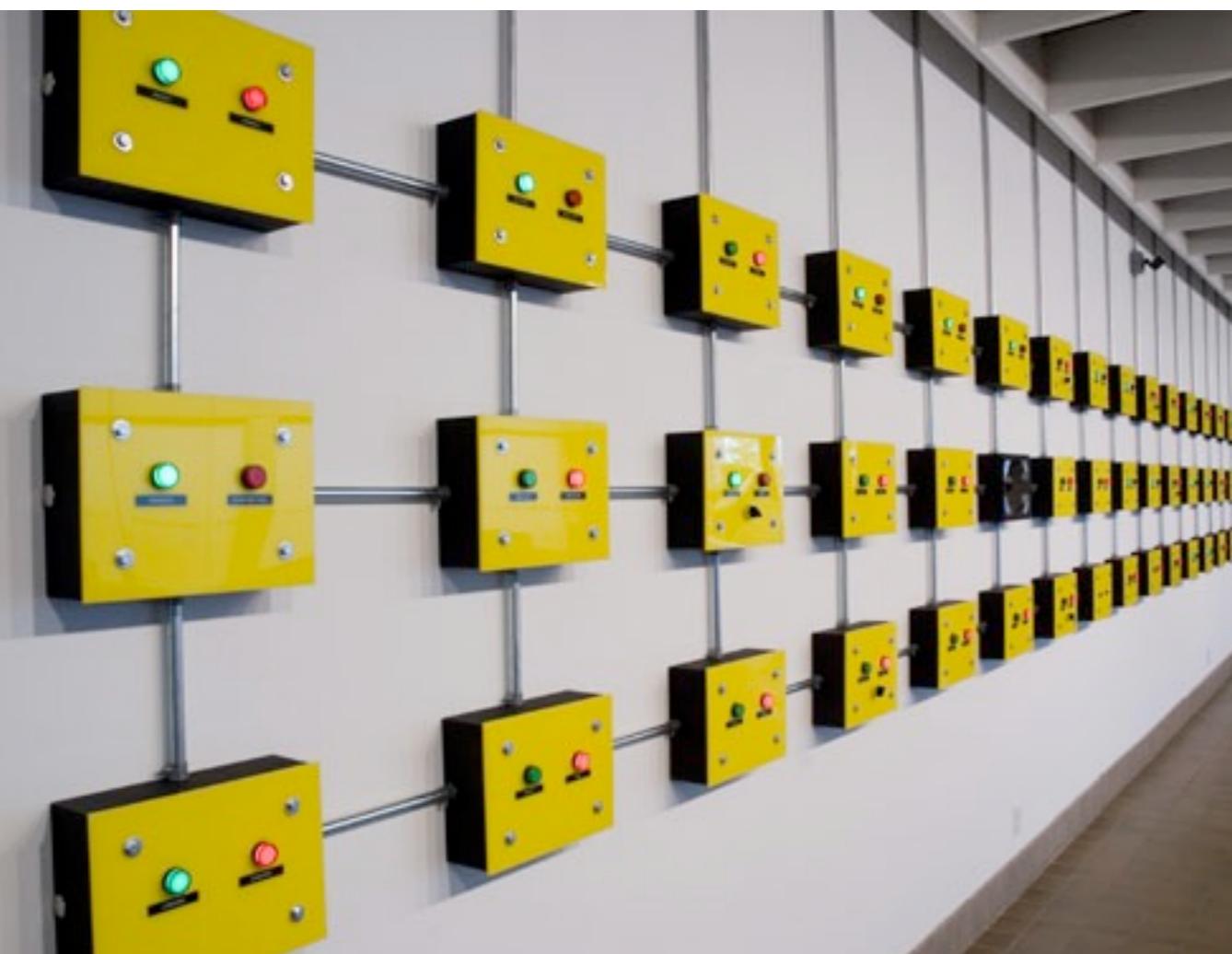


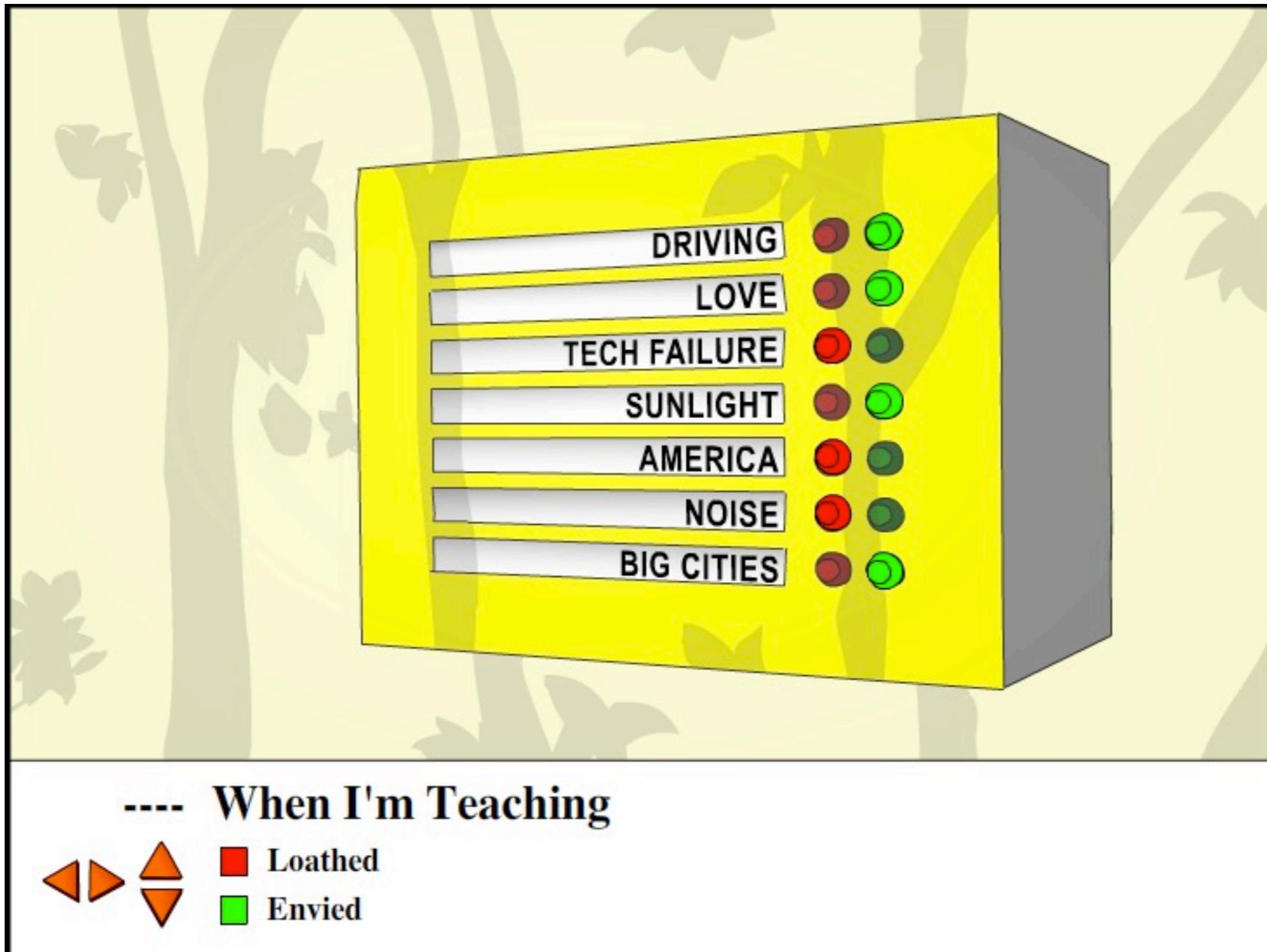
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Life Writer ©2006, Christa Sommerer & Laurent Mignonneau

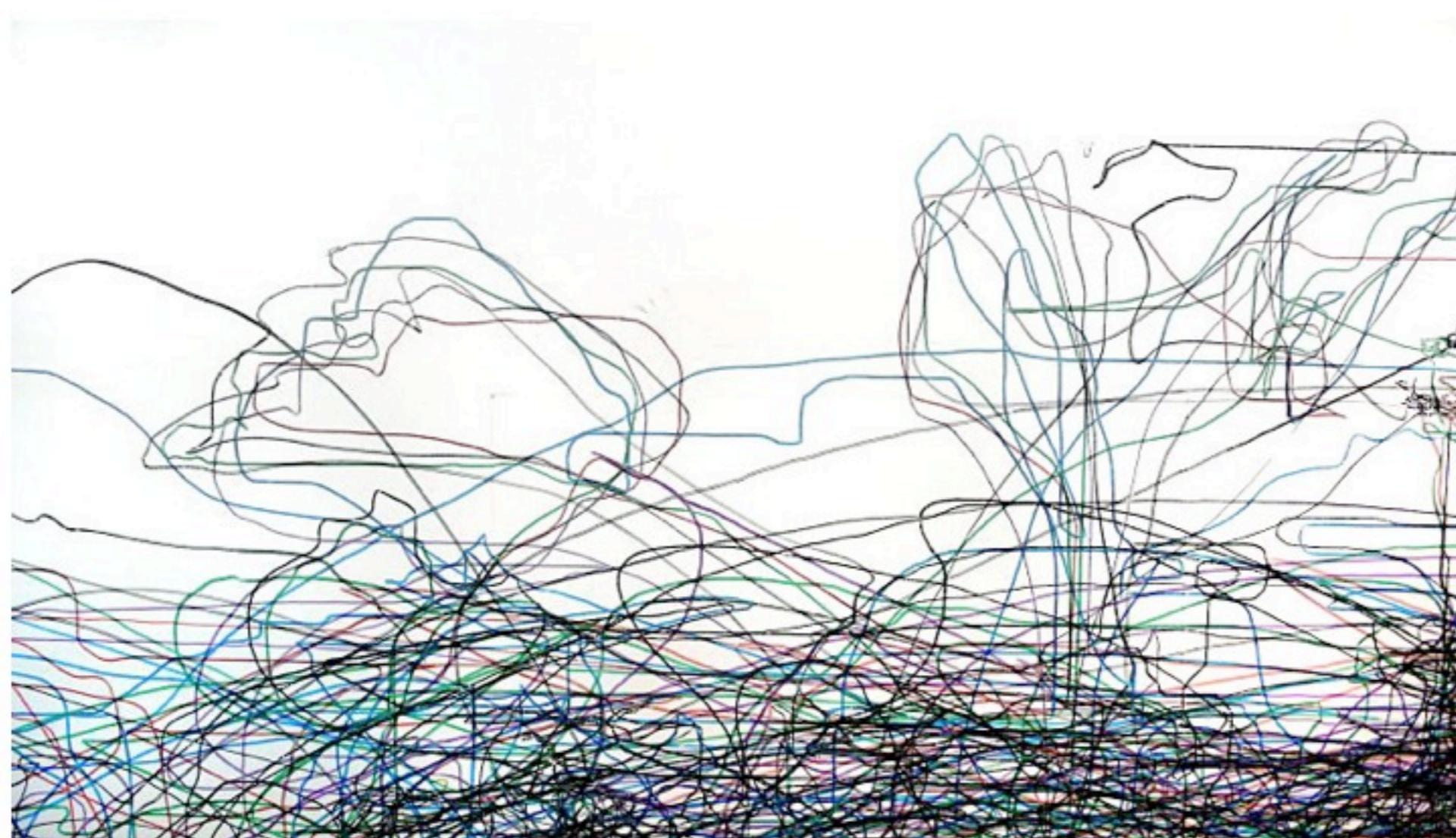








left: "Alan Storey: Device for Drawing the Movements of a Ballerina", Queen Elizabeth Theatre, Vancouver Canada, 2008.



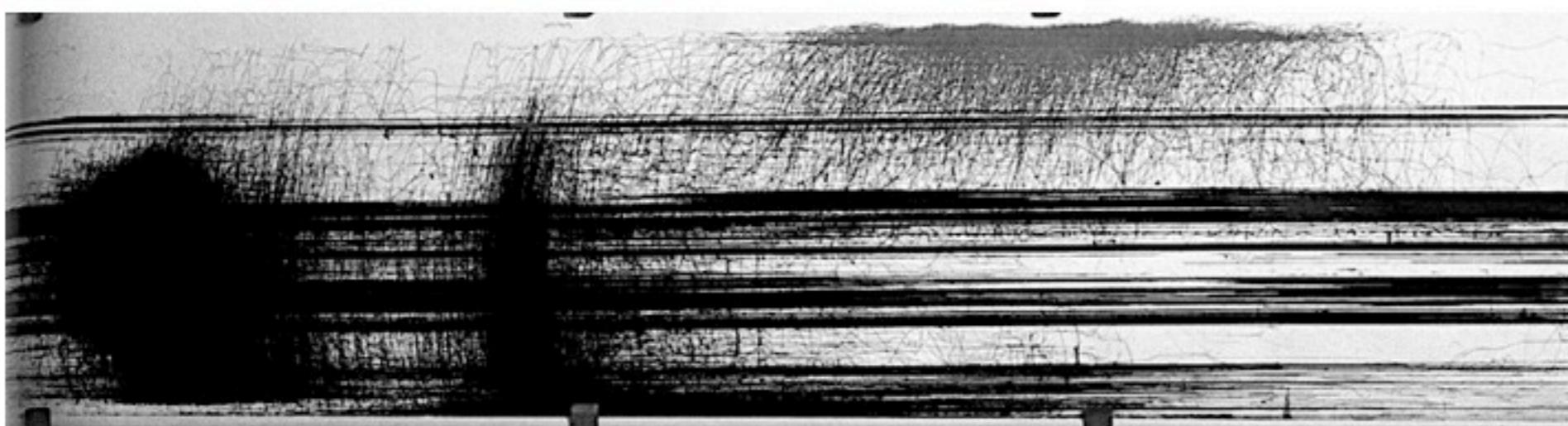
left: Alan Storey: "Device for Drawing the Movements of a Ballerina", detail of drawing tracing out the stage movements of the dancer on consecutive evenings. The pen uses a different color for each successive performance.



Left: Alan Storey: Climatic Drawing Machine, 1991. The POWER PLANT, Toronto.

at left: model of climatic drawing machine and resulting drawing on rear wall installed in gallery

at right: detail of 'recording paper' roll. The direction of the wind rotates the paper recording drum via the weather vane on the roof of the building. The drum is moved up and down according to the velocity of the wind.

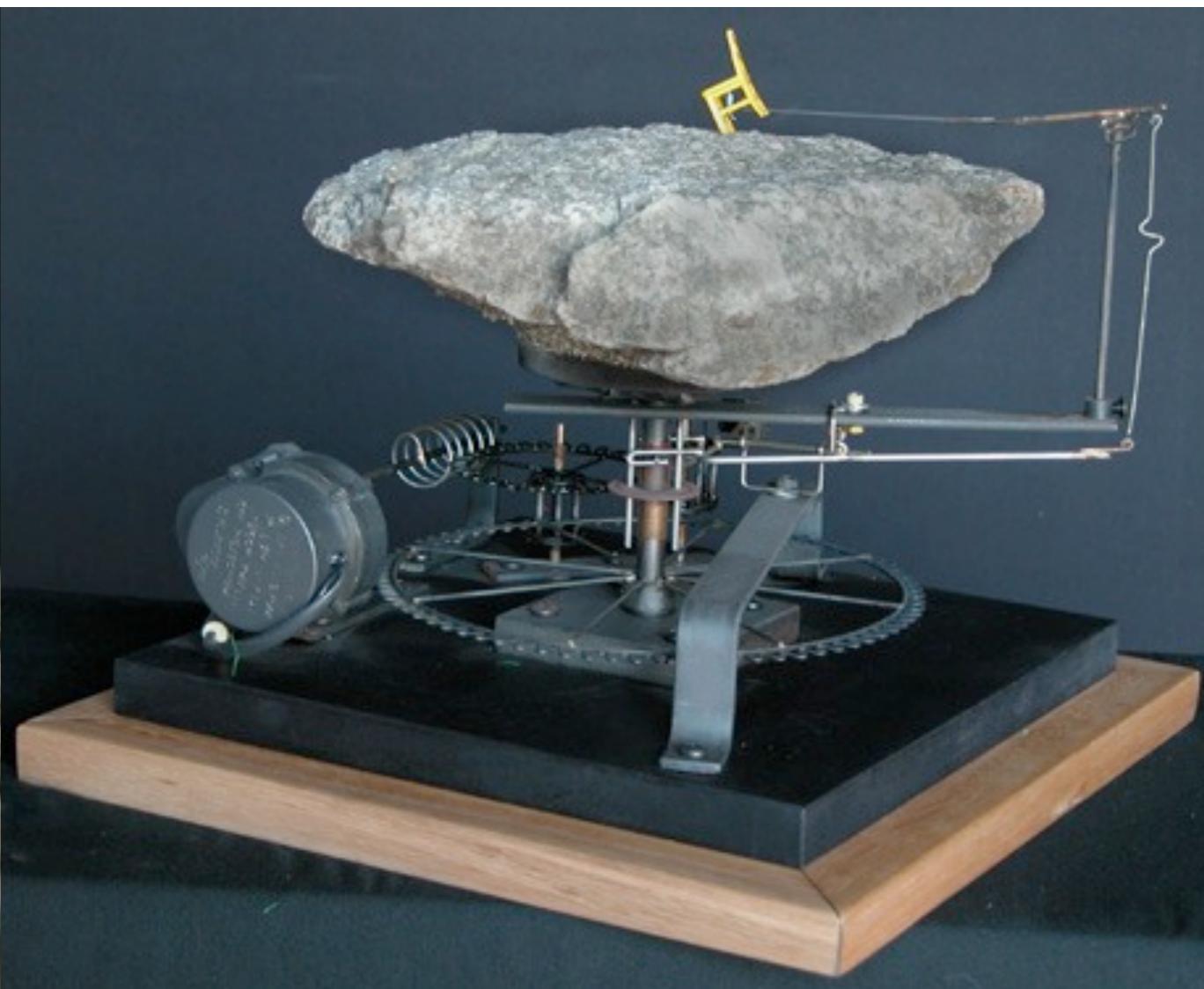


at left: Climatic Machine Drawing. The paper covered receiving drum of the Drawing Machine is oriented to the prevailing wind via the weather vane on top of the building. The wind speed itself moves the drum up or down and determines the vertical position of the pen relative to the drum. Hence the 'activity' in the lower left correspond to a south/westerly wind gusting at low speeds and the activity on the upper right, a north easterly storm.

Thinking Chair by Arthur Gansen



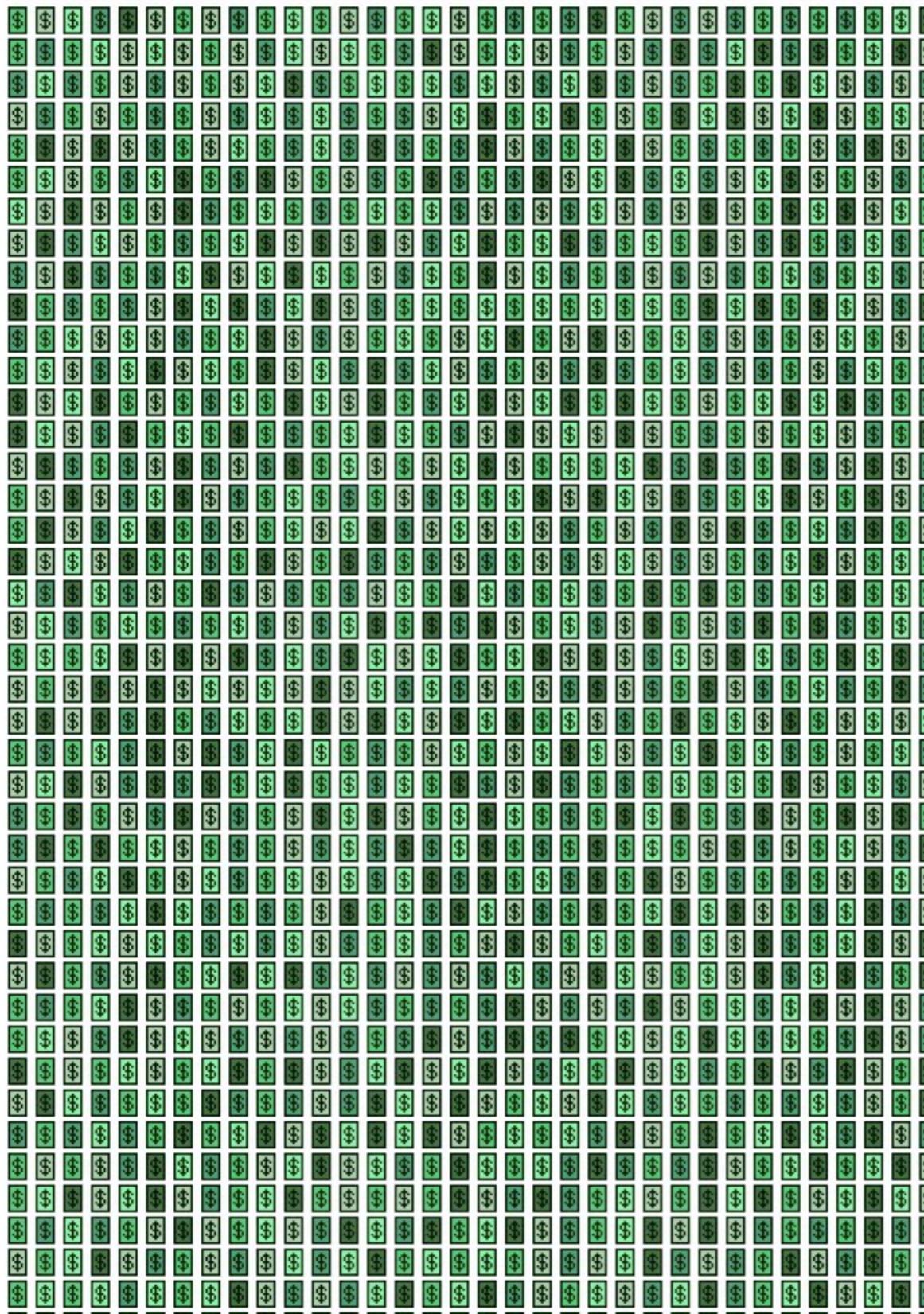
PHP Machines by Owen Mundy



# Functional online examples

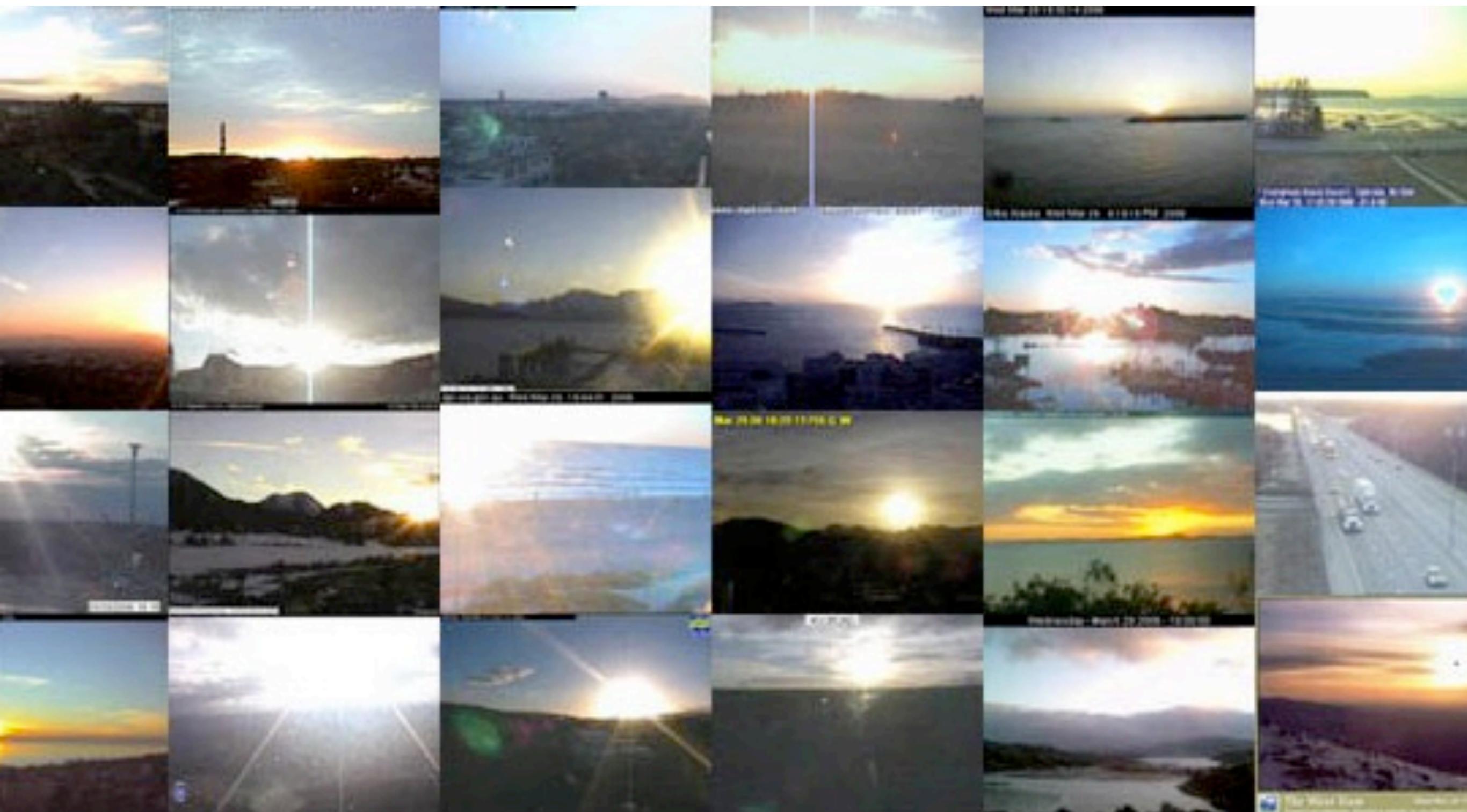
- Visualizations and aesthetic representations

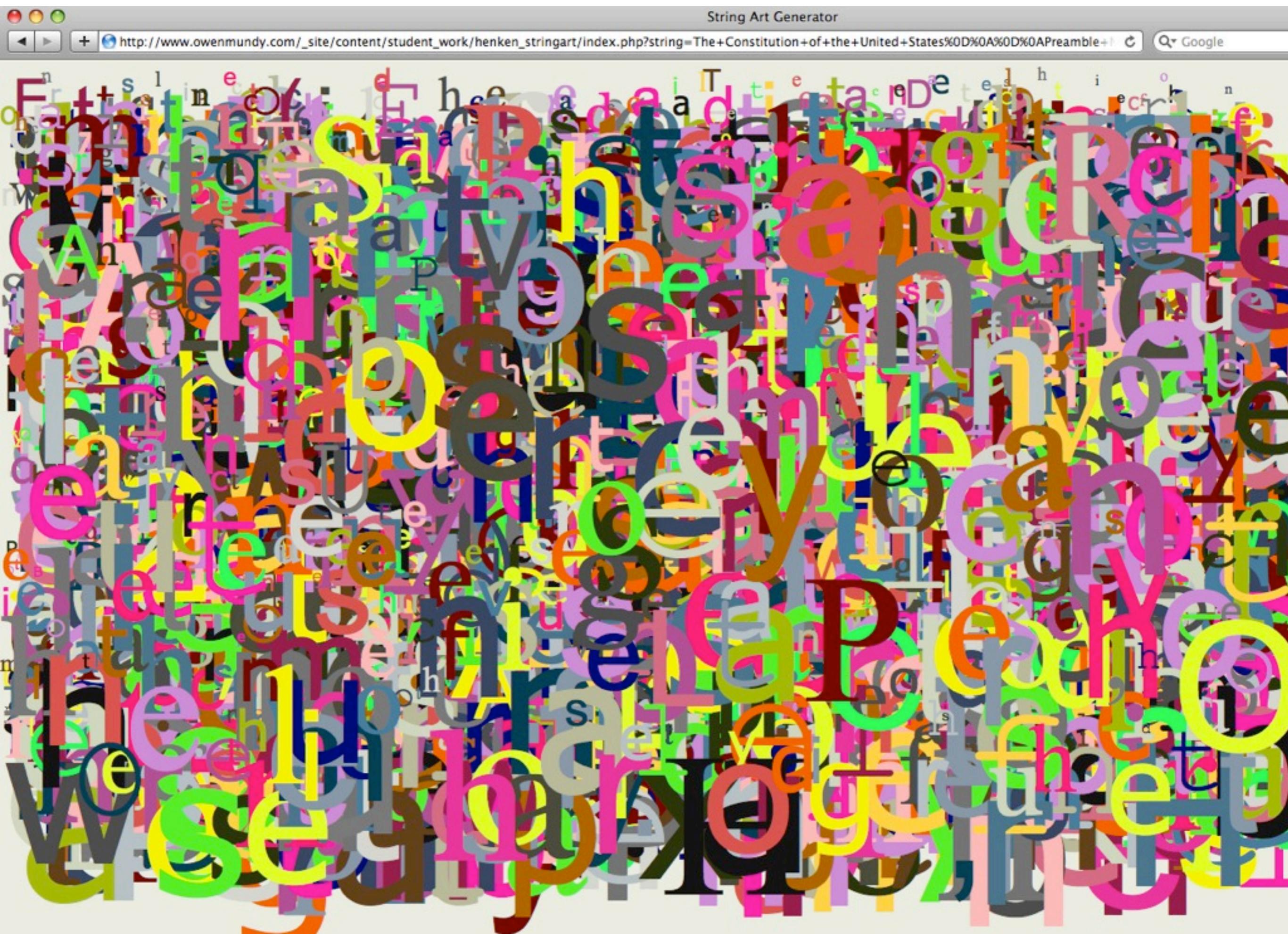
## National Science Foundation



## National Endowment for the Arts



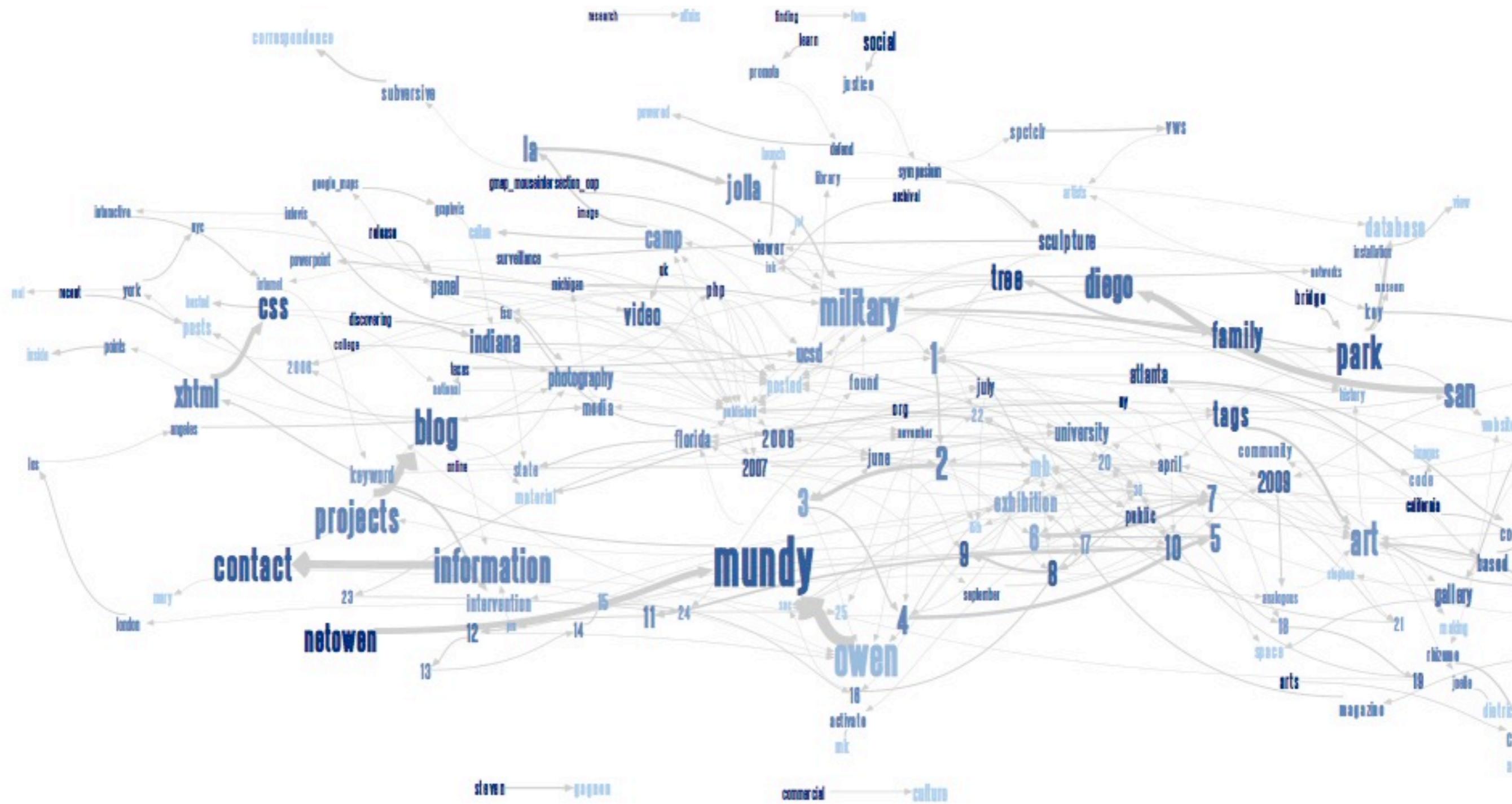






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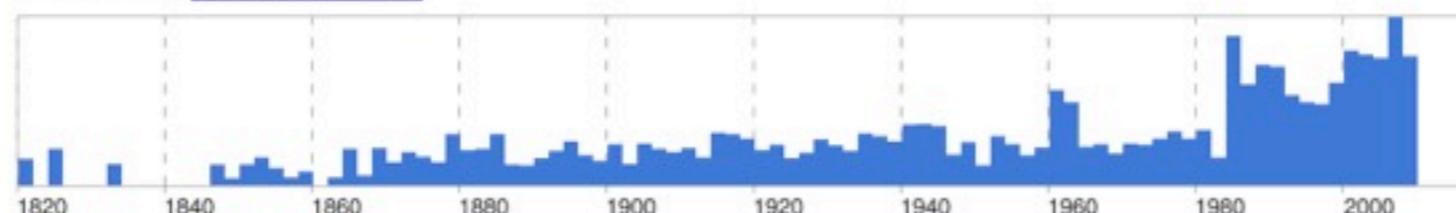
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[1984](#) 1984 - Set in East [Berlin](#) in 1984, the film follows an agent of the secret police, loyal Stasi-Hauptmann [Gerd Weisler](#), conducting [surveillance](#) on a famous writer and his lover, a famous actress. Expecting promotion to follow the case, Weisler instead becomes intrigued ...  
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[1989](#) Jan 4, 1989 - "Then, apparently every few months, [Parkin](#) and [Lackner](#) each contributed \$500 cash and Lackner paid that to [Berlin](#)," the document states. "Lackner told Parkin that the payments were made, and FBI [surveillance](#) once observed Lackner meet [Berlin](#) when a payment was scheduled to be made. ...  
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[1990](#) Feb 14, 1990 - In a third agreement, NATO and the [Warsaw Pact](#) agreed in principle on "open skies" [surveillance](#) methods by which reconnaissance aircraft of one side ... Because of the strong [West German](#) economy and Germany's [history](#) of military aggression, the idea of a bigger and stronger modern-day ...  
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[2000](#) Nov 19, 2000 - The infusion of politics and [history](#) into [[Gunter Grass](#)]' life and thought, and his penchant for reflection and foresight, were foremost in ... For instance, the Luxemburg woman should have had 'round the clock [surveillance](#). ... Kautsky, too. ... In 1910 Lenin comes to see him again. ...  
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[2001](#) Oct 25, 2001 - The German government has approved a [surveillance](#) regulation that is intended to make it easier for authorities to eavesdrop on communications via fixed-line and mobile phone, e-mail, fax, and SMS (short message service). The move puts [Berlin](#) in line with other Western governments ...  
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[2003](#) Aug 4, 2003 - German court forbids government [surveillance](#) of PCs [BERLIN](#), Feb...ruled Wednesday that government [surveillance](#) of personal computers...the legalization of

# Functional online examples

- Social spaces and interaction

# I'M A DESIGNER AND...

*...click here to add your own*

**...im colorblind!!!**

Kasper, Copenhagen, 3 days ago

**...d (that's what they said, my balls)**

jameson, atlanta, 3 days ago

**...I designed a decoupage of my balls for a friend's eyelid tat, I feel so fulfile**

jameson, atlanta, 3 days ago

**...i'm in class.**

Joe, Tallahassee, 3 days ago

**...I'm teaching a class right now**

Owen, Tallahassee, 3 days ago

**...I love movies!**

Brittany, Florida, 3 days ago

**...2rand[0,1,1]**

sakznokwiy, New York, 3 days ago

**...I hate when a client insists on using a horrible logo or self-shot picture.**

||||||||||||||, USA, 3 days ago

**...need a new apartment**

sue, PT, 4 days ago

**...I've sold my artistic soul**

C, neverland, 4 days ago

**...I'M SLEEPY**

SLEEPY SMURF, SMURF LAND, 6 days ago

**...I'm looking do design something that really matters.**

Milton Onodera, são Paulo | Brazil, 6 days ago

**...I got Pavement tickets for NYC in 2010**

Spencer, London, UK, 6 days ago

THOUGHT STREAM

isead out by ideas

Sat, 29 Aug 09 15:10:24

hello again

Sat, 29 Aug 09 15:16:41

150 characters motherfuckers

Sat, 29 Aug 09 15:20:14

pok

Sat, 29 Aug 09 15:23:22

the weather sucks

Sat, 29 Aug 09 16:29:54

confused

Sat, 29 Aug 09 18:15:56

hello

Sat, 29 Aug 09 20:24:30

all internet should be free

Sun, 30 Aug 09 07:59:44

back to the land of the wheaten eaters

Sun, 30 Aug 09 09:34:51

Skyping home.

Sun, 30 Aug 09 11:44:41

Thank god ISEA went well

Sun, 30 Aug 09 15:45:02

[Home](#) [Profile](#) [Find People](#) [Settings](#) [Help](#) [Sign out](#)

What are you doing?

140

Latest: Making a screenshot of this page for a ppt on PHP Machines less than 5 seconds ago

[update](#)

Home



**owenmundy** Making a screenshot of this page for a ppt on PHP Machines  
less than 5 seconds ago from web



**TATE** New interactive feature just launched on Tate Kids as part of Turner and the Masters season. Have fun @kidsinmuseums <http://bit.ly/2aj1WS>  
about 2 hours ago from web



**TATE** Turner vs The Masters RT @mundusvivendi @asiantees @guardian – a diff. look at the debate <http://bit.ly/9XhWQ>  
about 2 hours ago from web



**parksandrecnbc** Watch this week's episode "The Stakeout" online now @ <http://bit.ly/3e4Rkj>.  
about 3 hours ago from web



**lowflyingrocks** 2005 SP9, ~150m-340m in diameter, just passed the Earth at 25km/s, missing by ~fourteen million, three hundred thousand km.  
about 4 hours ago from Twitter4R



**KnopeKnows** What's your favorite quote from "The Stakeout"? All the best ones are right here. Take a look! <http://tinyurl.com/yecykfy>  
about 5 hours ago from TweetDeck



**KnopeKnows** RT @mindykaling: Oh, I loved loved Parks & Rec tonight. So much wonderful stuff.  
about 5 hours ago from web



**SadDiego** ☺ Tonight is going to be the best night of sleep EVER. I can feel it.  
about 6 hours ago from web



**SadDiego** ☺ Um loved Bright Star, the new Jane Campion film. LOVED.  
about 8 hours ago from txt

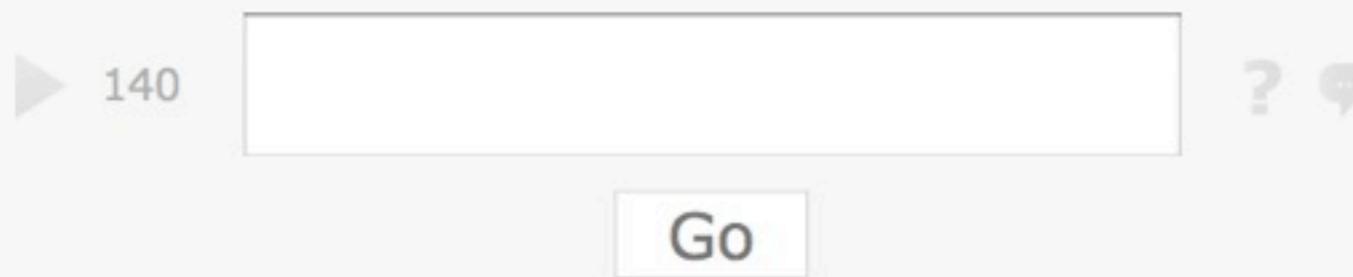


**KnopeKnows** "The Stakeout": Hysterical, right?! Rate the episode and talk about your favorite parts here! <http://bit.ly/qT5Ld>  
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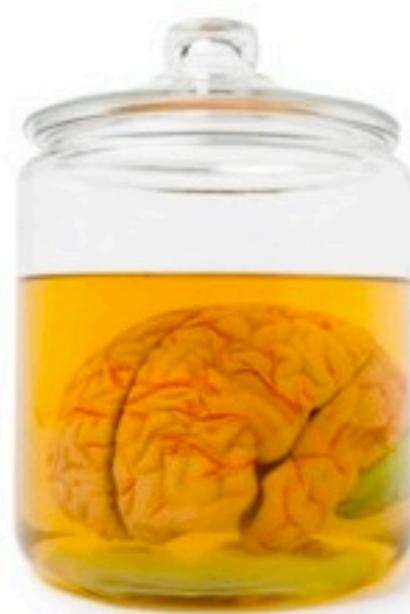
# Functional online examples

- Tools for productivity, testing, etc.

- 1. Type note here.*
- 2. Set as homepage.*
- 3. Get to work!*

[How do I use this site?](#)

Right Now: What Are You Doing?



Right now, it's 00:29:52 am.

**Is this really  
what you want  
to be **doing**  
right now?**

"What is this?"

It's an *undistraction* by Merlin Mann of 43 Folders.

Reinvent this idea how ever works for you; then kindly get back to work.

[Notes & Credits](#)

greatfirewallofchina.org

test about faq search discussion



**greatfirewallofchina.org**

Test any website and see real-time if it's censored in China!

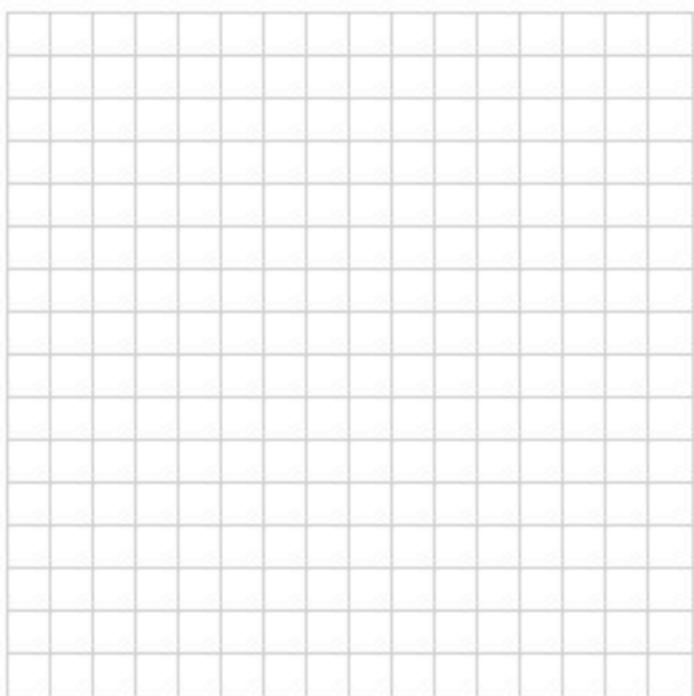
Because of the ever stricter measures of censorship China imposes on the Internet, the team of [www.greatfirewallofchina.org](http://www.greatfirewallofchina.org) at present can no longer vouch for the reliability of its test tool. We have therefore decided to take the test tool offline.

Please visit our FAQ page for the latest news about China and the Internet, and more...

Thanks for all your comments and overwhelming support over the past year! Let us persist in our dialogue with China and hope that the Games will lead to more openness!



# favicon maker v1



[SAVE](#) | [CLEAR](#)

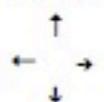
**BRUSH SIZE:**

1    4    12    36    81

**FILL:**

[All](#) | [Randomize](#)

**MOVE:**



[Choose File](#) no file selected

# Functional online examples

- Tools for productivity, testing, etc.



Get chicken just the way you like it. Type in your command here.

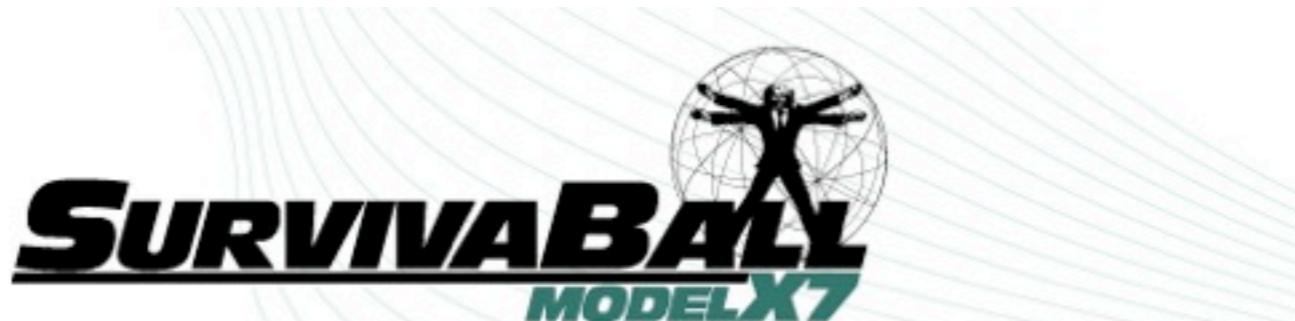
**SUBMIT**

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[TELL A FRIEND](#)

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MODEL X7

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 Augmented Reality requires a printed Solar Panel Marker to work. If you don't already have one, [print one here.](#) >

Turn on your computer's sound and webcam. And turn off any pop-up blockers.

Select the "Wind Turbine" or "Solar Energy" experience by clicking the buttons below.

Hold your printed marker so it faces your computer's webcam.

Open the door to the Smart Grid by twisting and turning your marker. For wind, blow into your computer's microphone to see what happens.

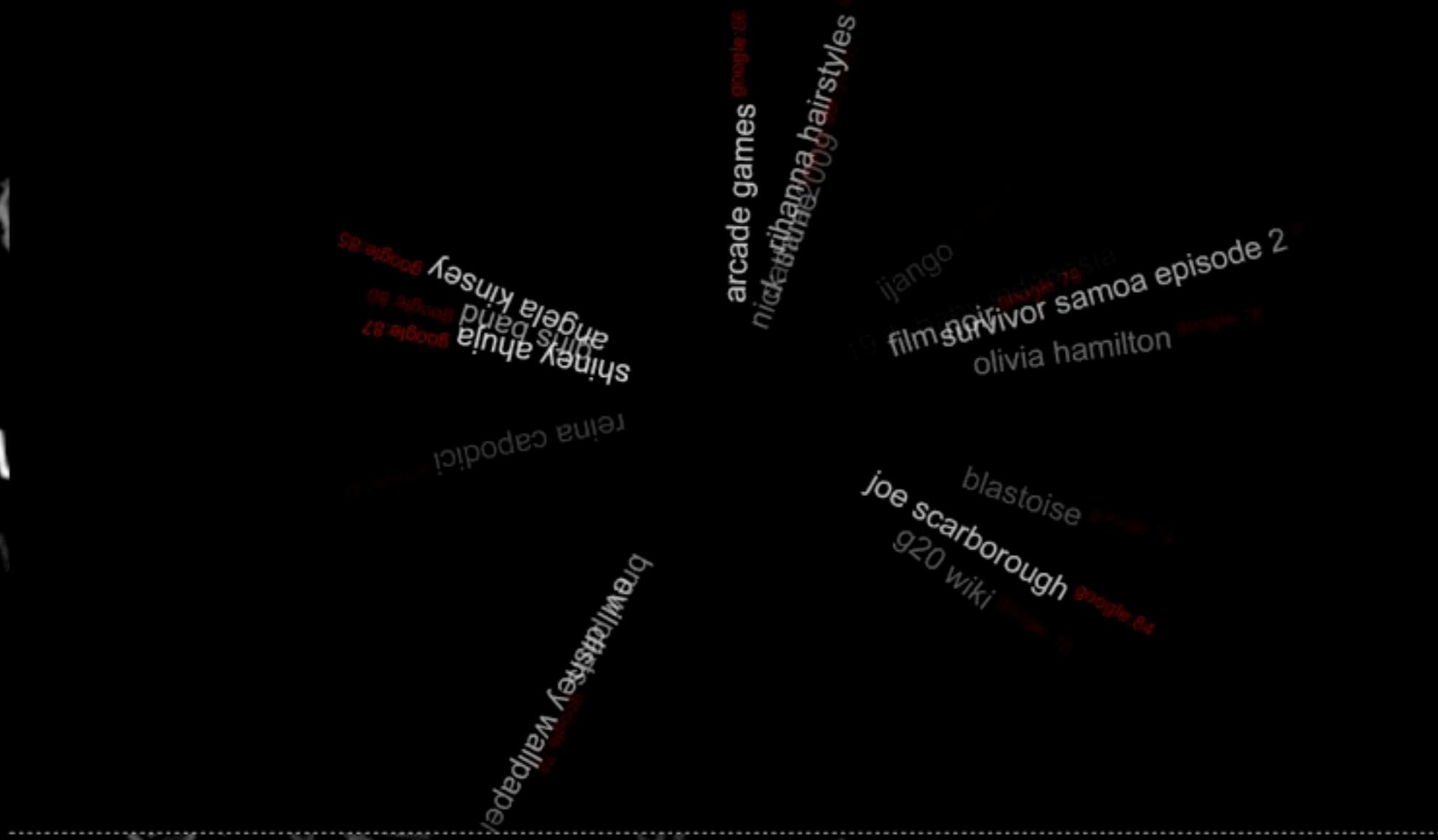
[Launch Wind Turbine](#) >

[Launch Solar Energy](#) >

# My own work

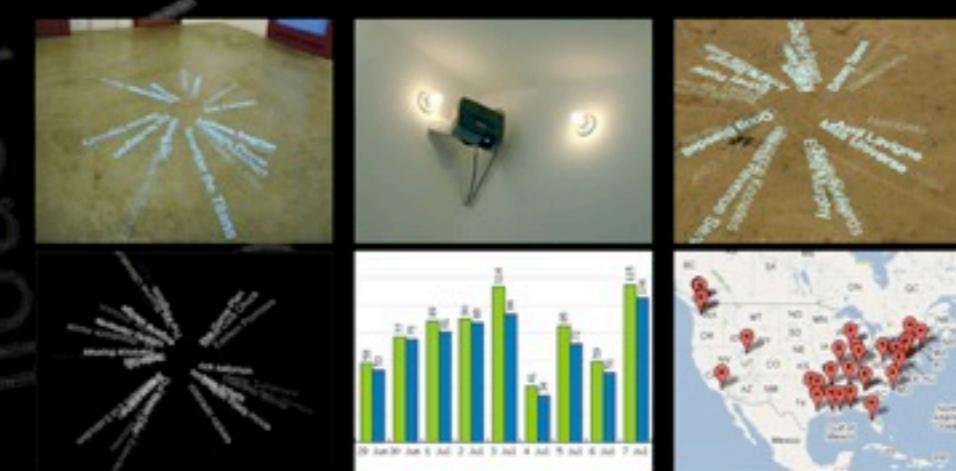
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You Never Close Your Eyes Anymore

PHP Machines by Owen Mundy



