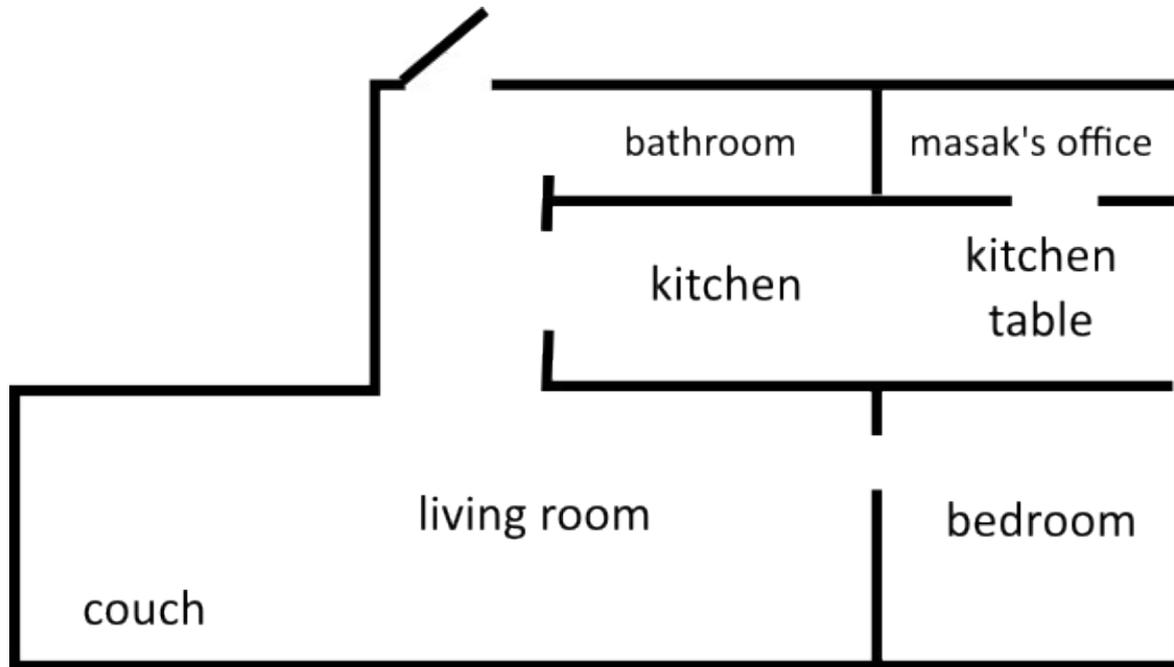


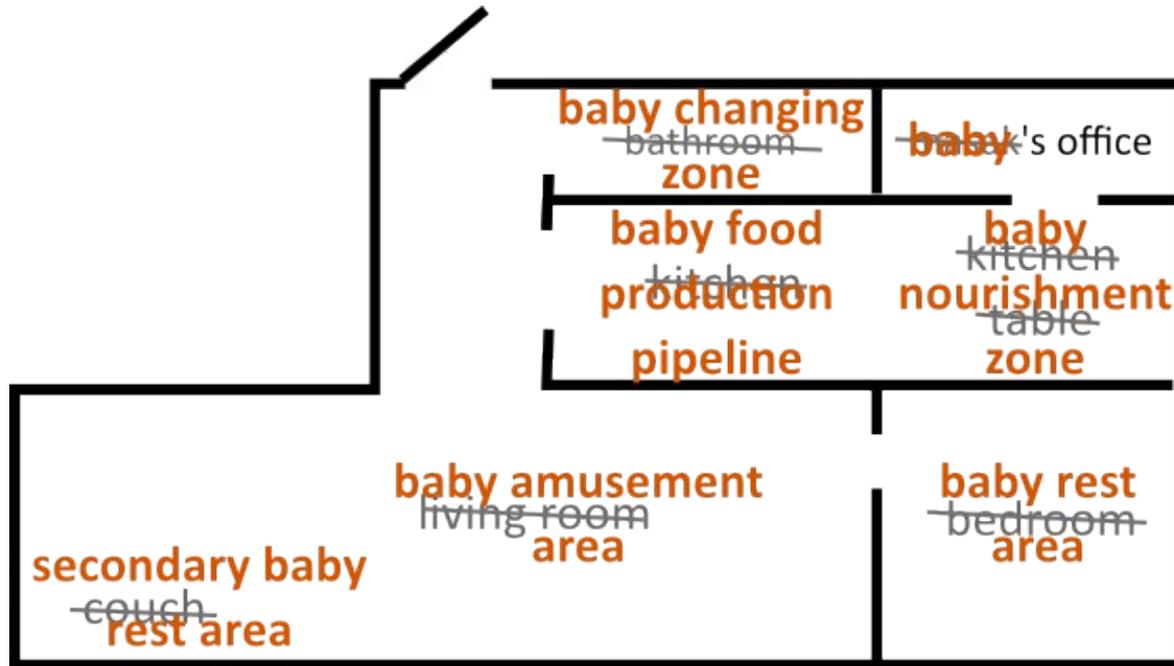
Domain modeling & the real world

Carl Mäsak
GPW 2016-03-09

https://www.flickr.com/photos/tir_na_nog/534634

so, I'm a father





this makes one think

“what is software development?”

two views

completely at odds with each other

ok, that could make a decent talk

hi, I'm masak

I write Perl 6

professionally

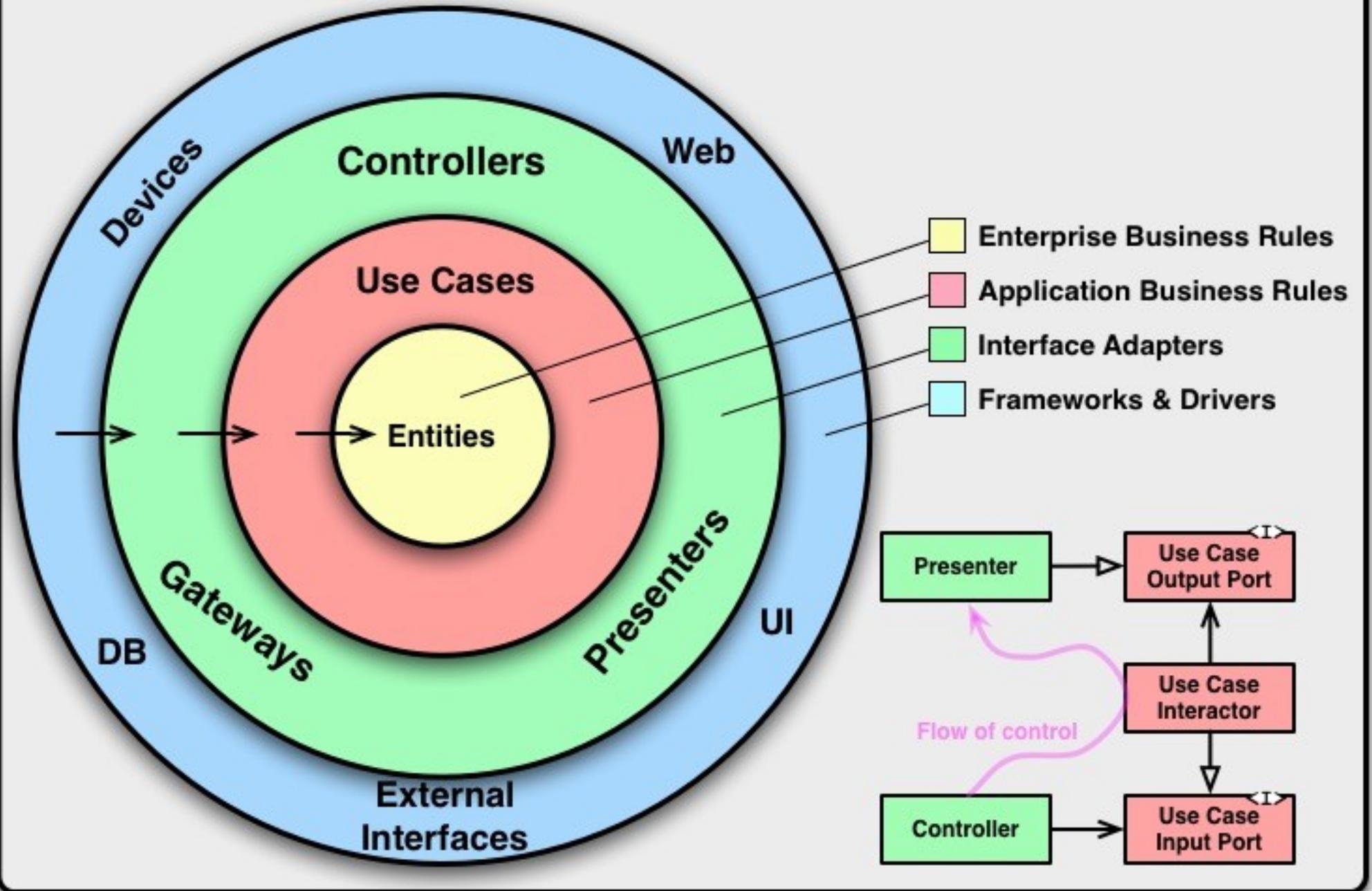
(and on my spare time)

so, two views of software dev

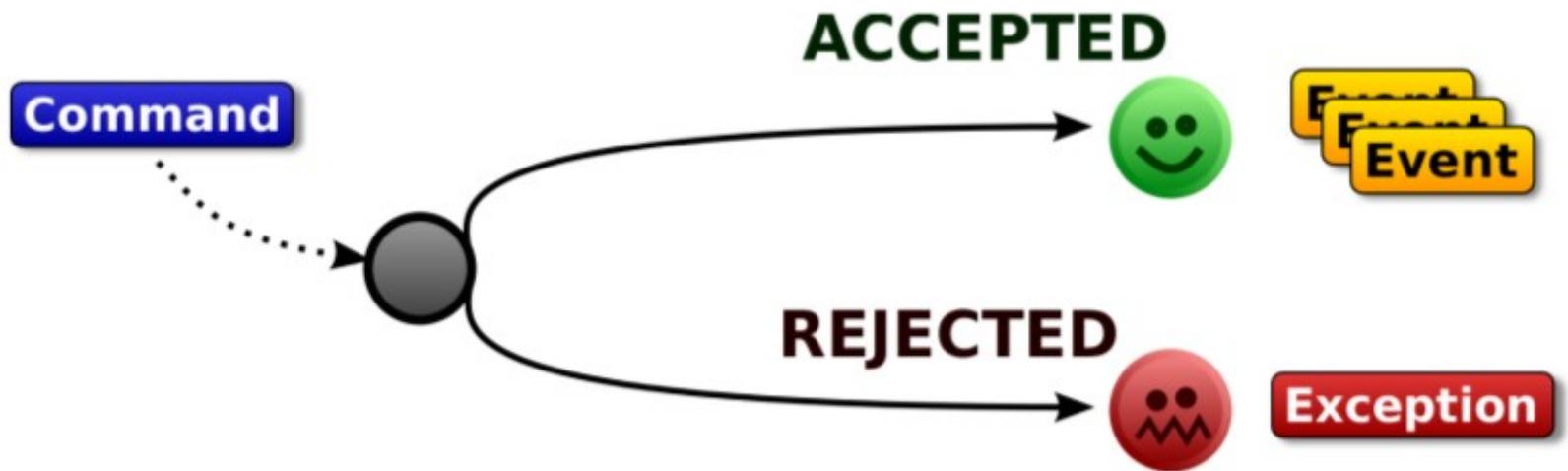
first view: complete clarity

your core domain
has no dependencies

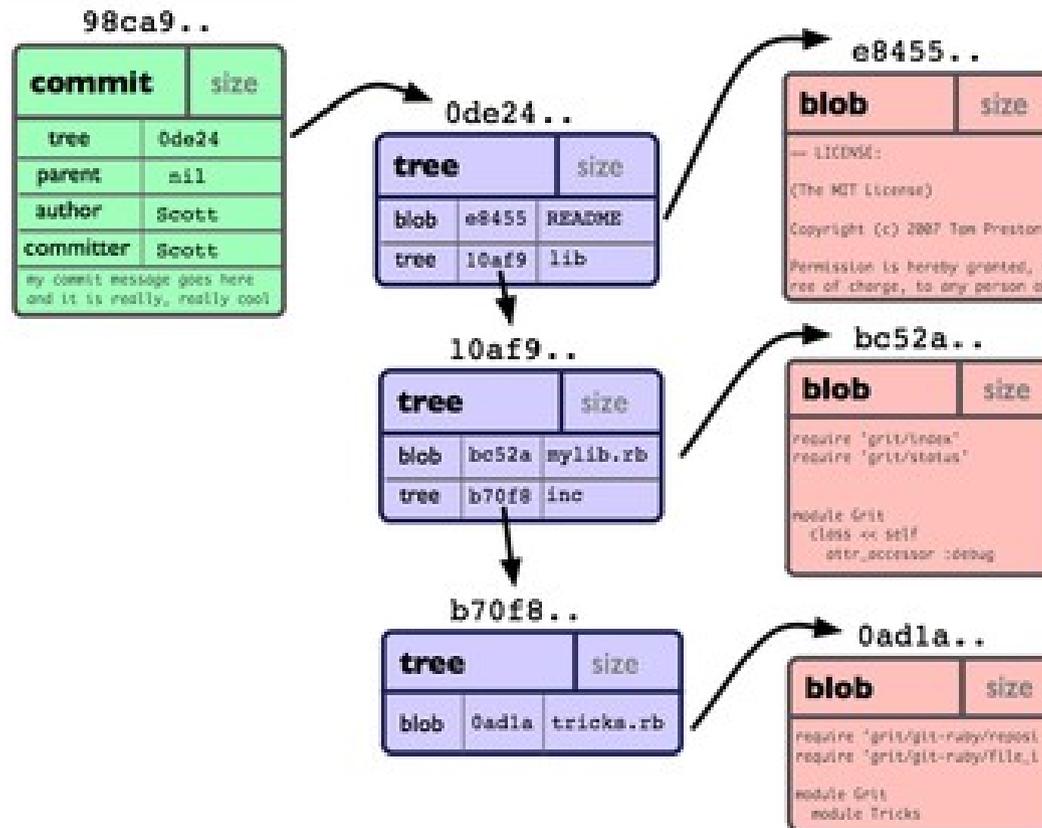
The Clean Architecture



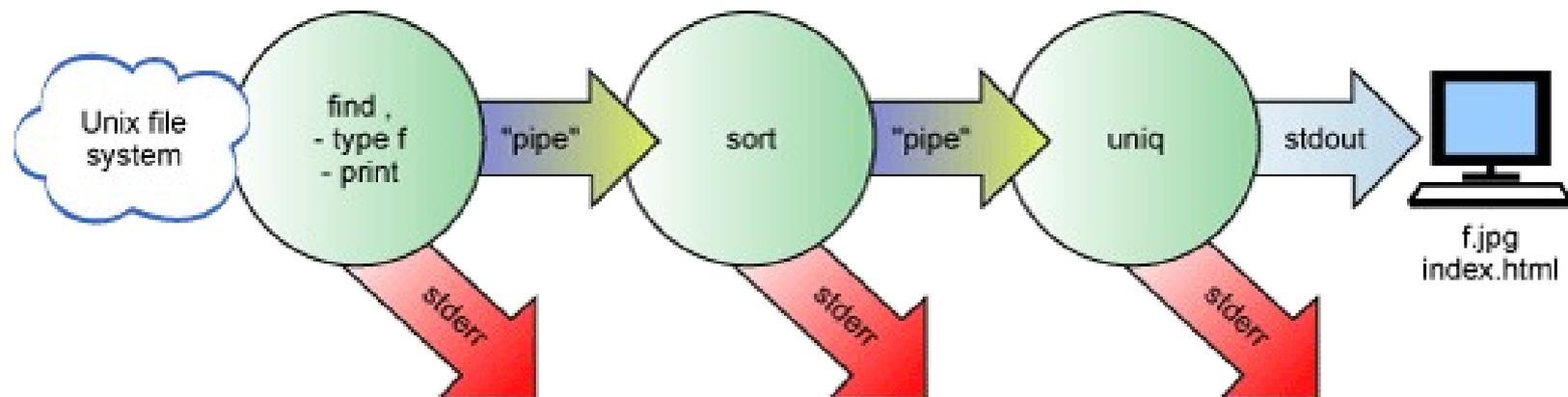
example: domain events



example: Git



example: Unix pipes



second view: complete chaos

code as organism

code as organism



technical debt

we don't plan, we measure

less physics
more biology

resources

example: FPGA + evolutionary programming

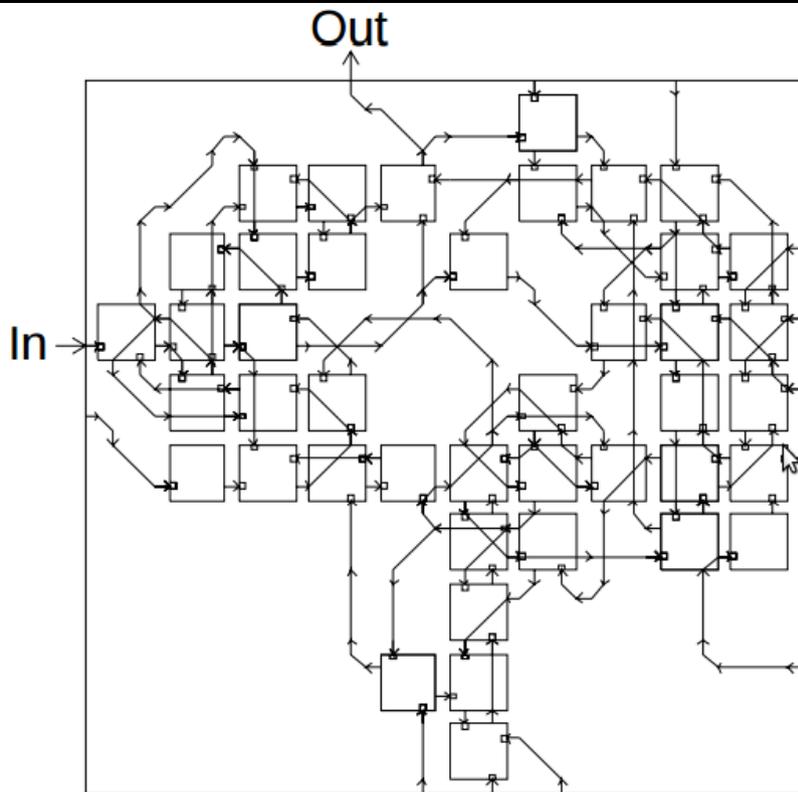


Fig. 18. The pruned circuit diagram: cells and wires are only drawn if there is a connected path through which they could possibly affect the output.

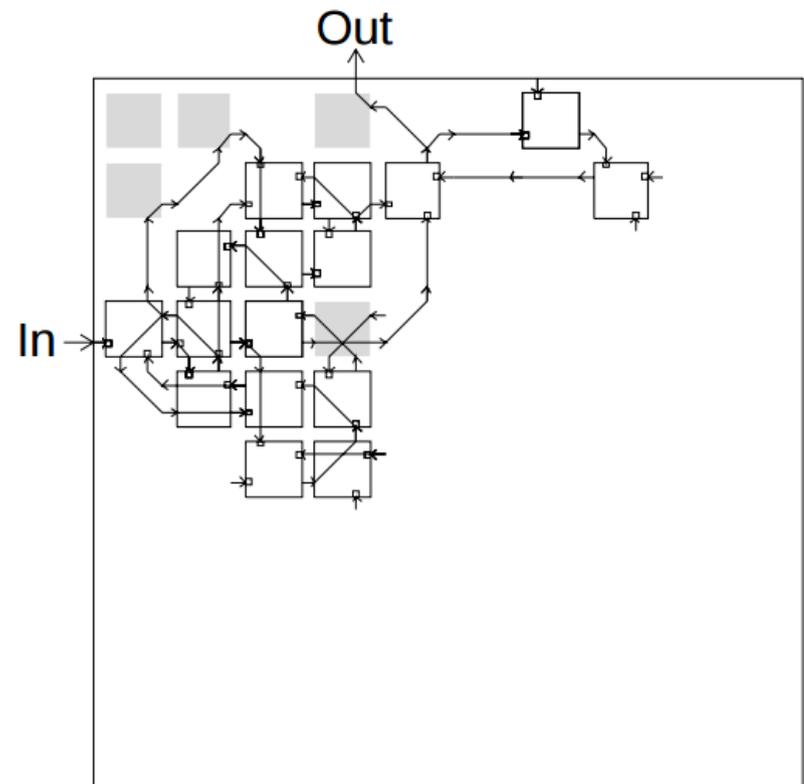


Fig. 19. The functional part of the circuit. Cells not drawn here can be clamped to constant values without affecting the circuit's behaviour.

example: exceptions in Argentina



example: injection in SOAP::Lite

```
2754
2755 # if nothing there, then get it from envelope itself
2756 $request->match((ref $request)->method);
2757 ($method_uri, $method_name) = ($request->namespaceuri of || '', $request->data of
2758     unless $method_name;
2759
2760 $self->on_action->(my $action = $self->action, $method_uri, $method_name);
2761
2762 # check to avoid security vulnerability: Protected->Unprotected::method(@param
2763 # see for more details: http://www.phrack.org/phrack/58/p58-0x09
2764 die "Denied access to method ($method_name)\n" unless $method_name =~ /^\\w+$/;
2765
```

unintended consequences

alright, so who wins?

my take: we can push niceness far...

...but not all the way

Design Beyond Human Abilities



Richard P. Gabriel

we need to be both
physicists
and biologists

to handle both
the beauty
and the chaos

thank you