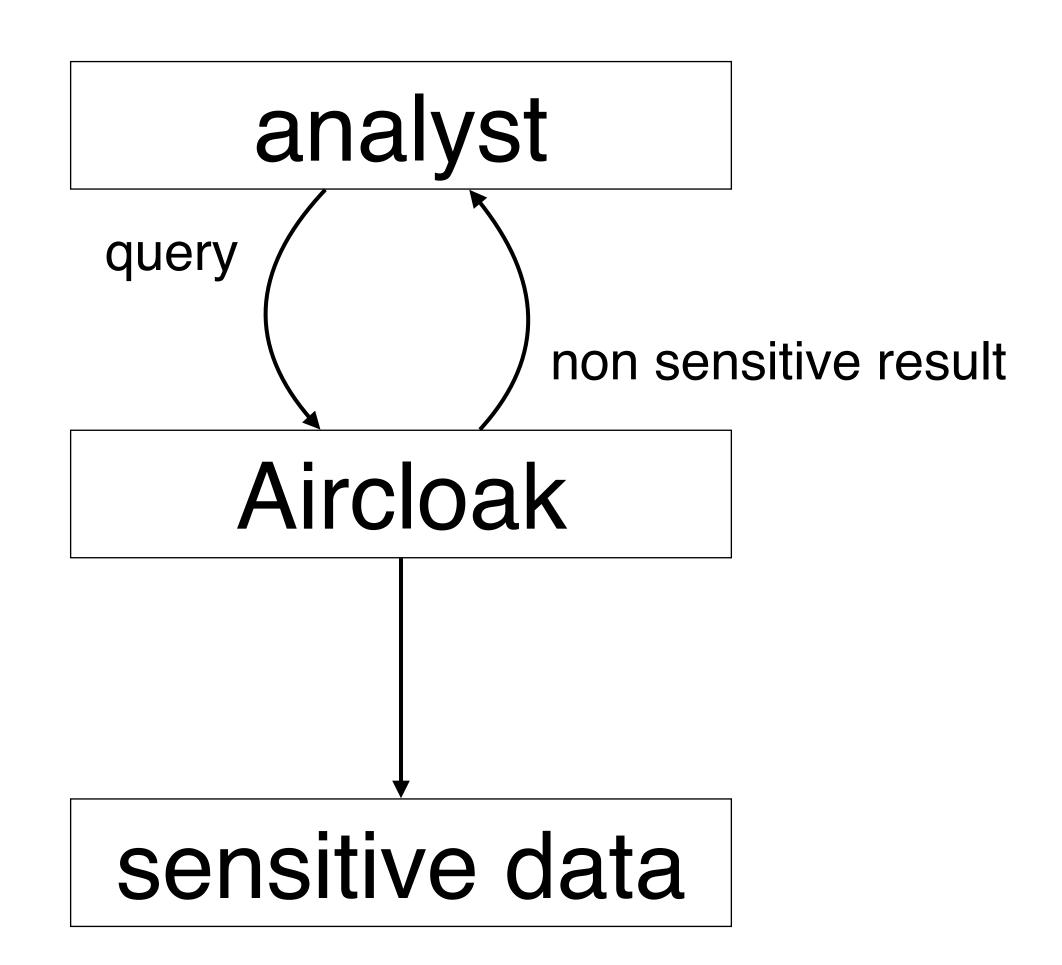
Such great heights

@sasajuric
aircloak.com



Current status: rolling our own CI powered by #elixirlang

5:01 PM - 28 Nov 2017



```
aircloak
  air
  cloak
  central
  common
  integration test
```

dev flow

pull request based mandatory code review mandatory tests

outgrowing Travis Cl

long build times flakiness
low throughput

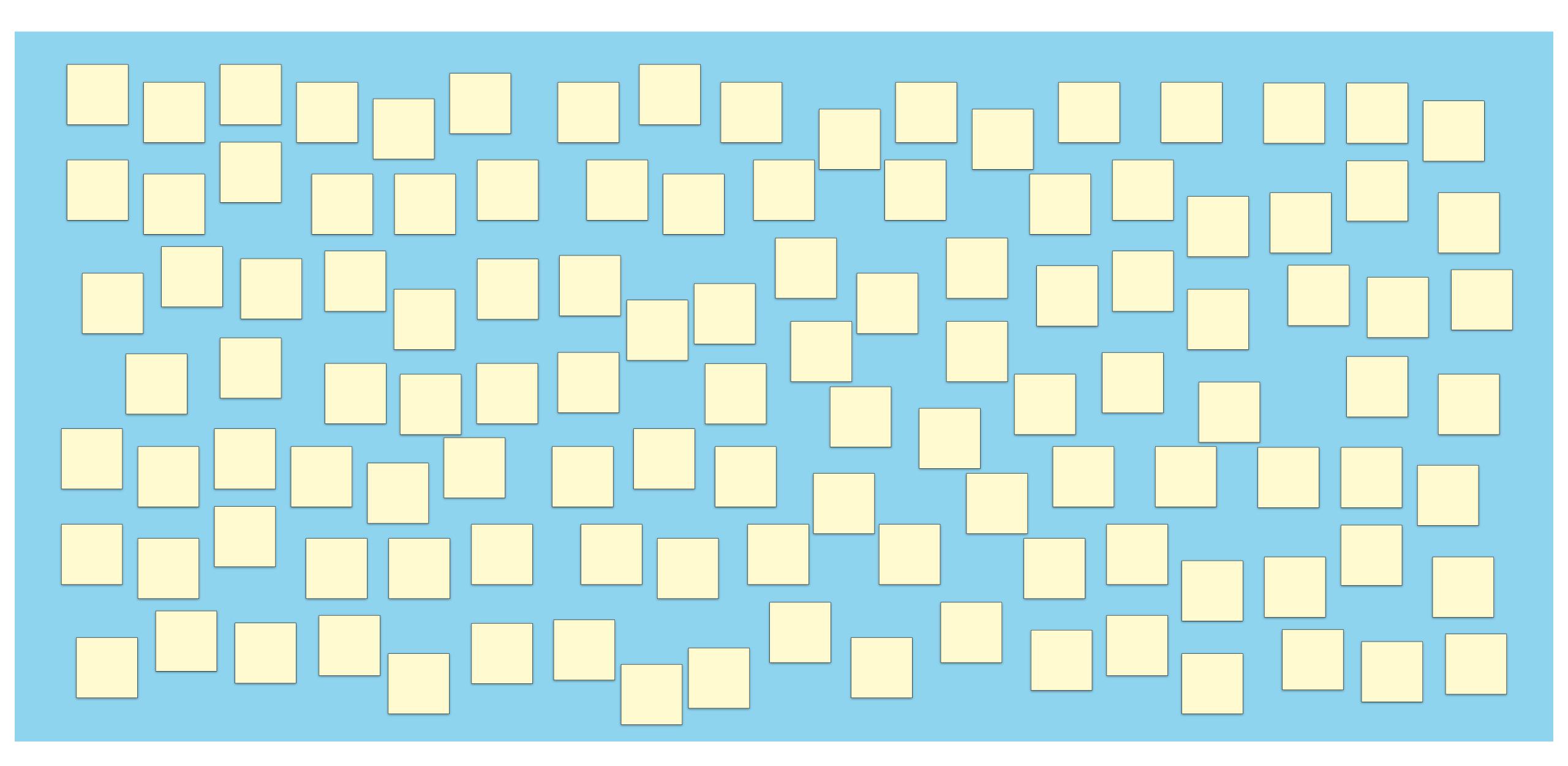
solution

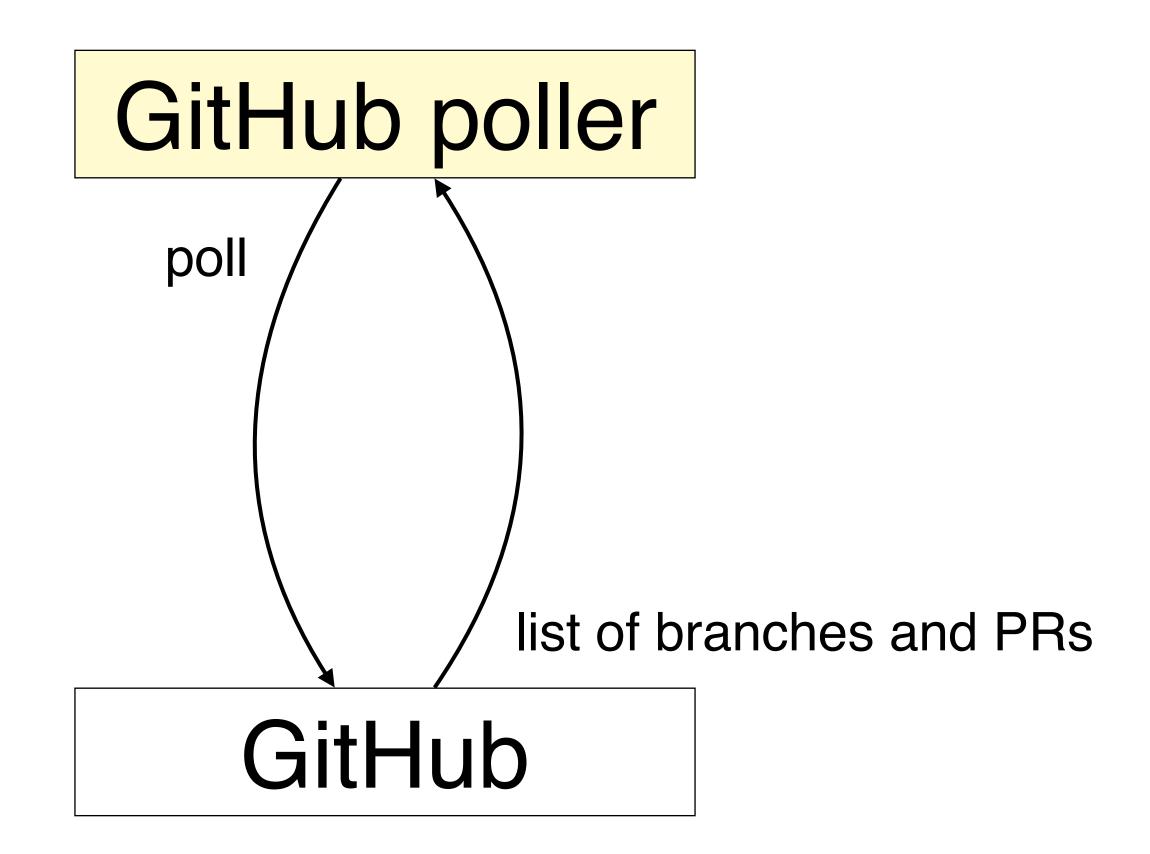
self-hosting

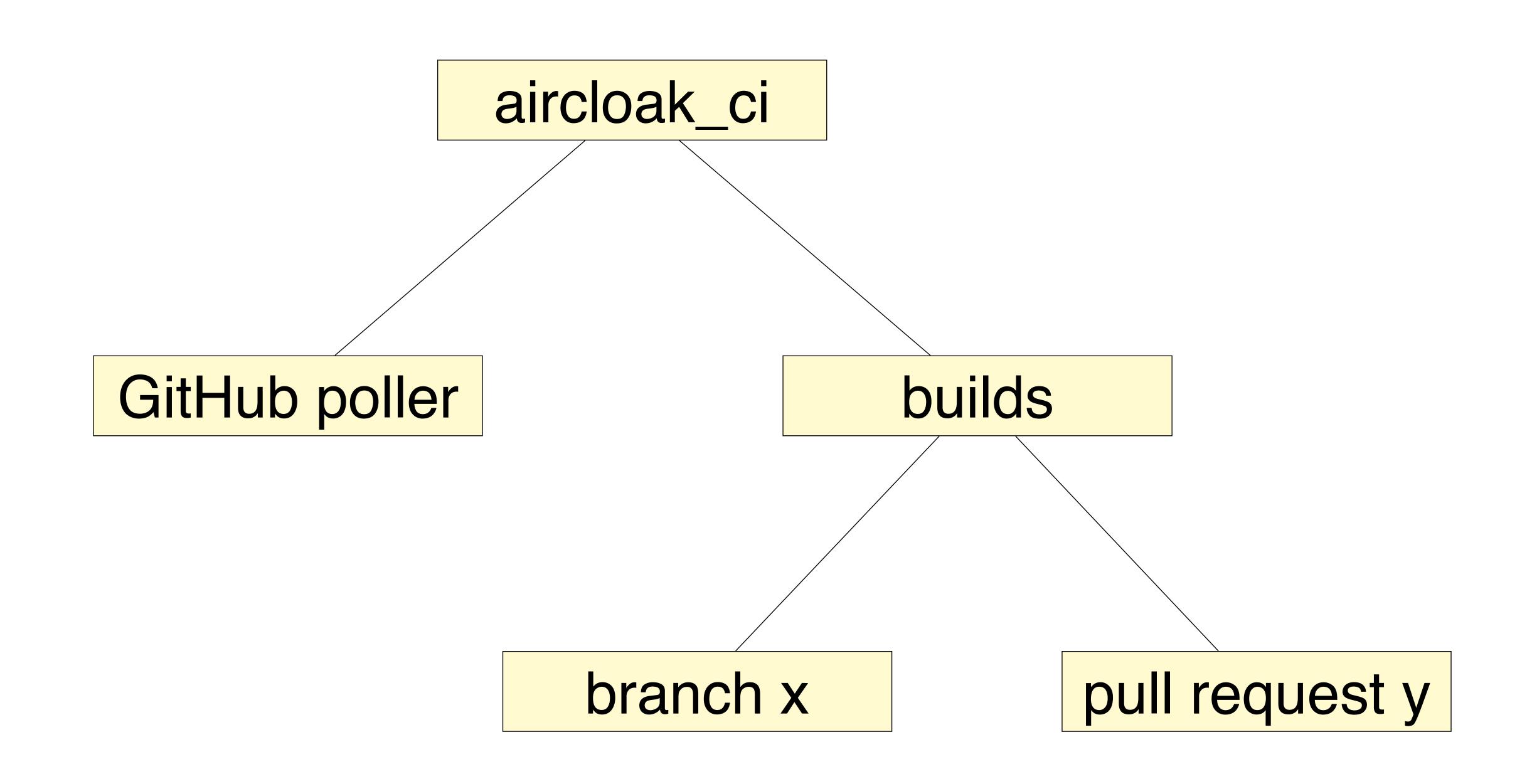
BEAM powered CI

best tool for the job :-)
reduced technical overhead
total control and flexibility

```
aircloak
  air
  cloak
  central
  common
  integration test
```



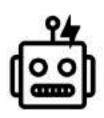




build components report success await approval report mergeability

```
if not merge_conflict?(build_state) and
    tests_passed?(build_state) and
    pr_approved?(build_state)
    do: report_mergeable(build_state)
```

```
Github.comment on issue (
  build state,
  "Pull request can be merged #{AircloakCI.Emoji.happy()}"
Github.put status check state (
  build state,
  "continuous-integration/aircloak/mergeable",
  "pull request can be merged",
  : Success
```



aircloak-robot commented 35 minutes ago



...

Pull request can be merged 💚



All checks have passed

Tilde

Hide all checks

1 successful check



continuous-integration/aircloak/mergeable — pull request can be merged

Required

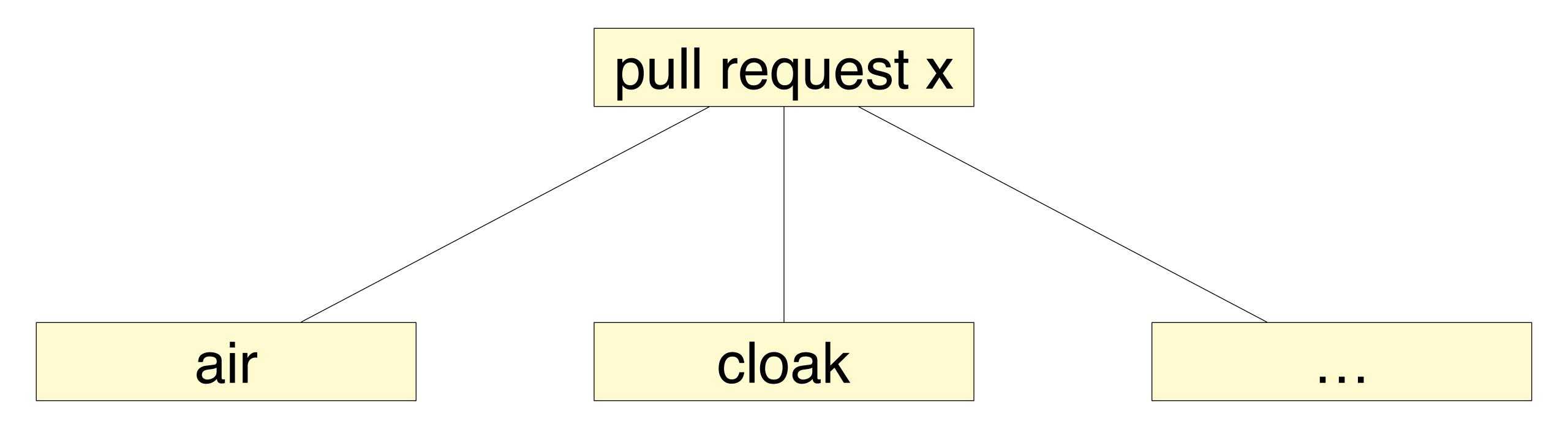


This branch has no conflicts with the base branch

Merging can be performed automatically.

Merge pull request

You can also open this in GitHub Desktop or view command line instructions.



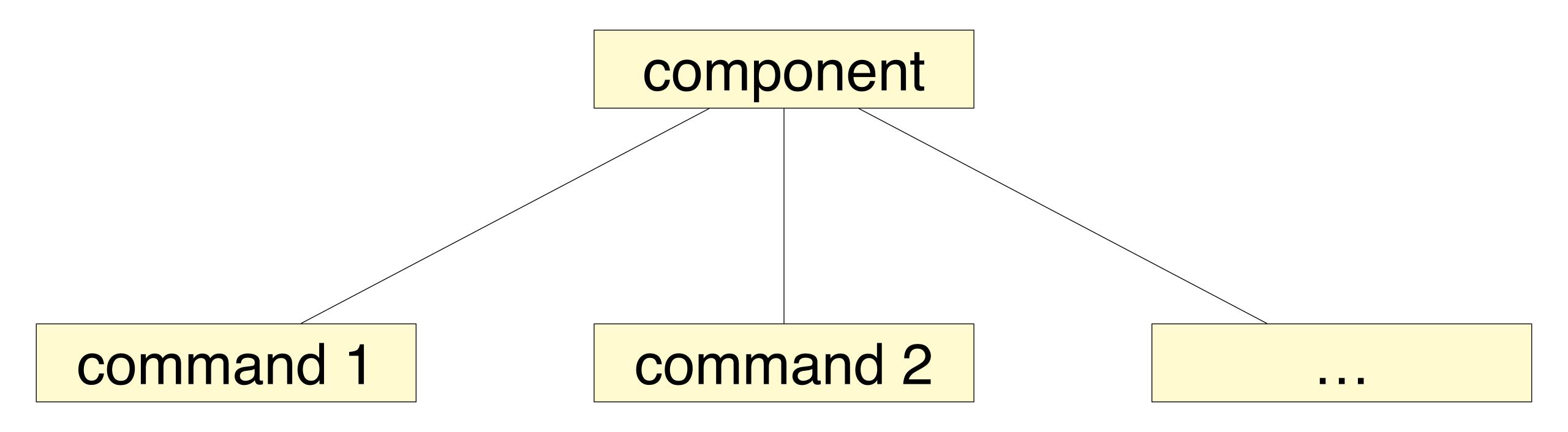
changed component	tested components	
air	air integration_test	
Ci	Ci	
common	everything	

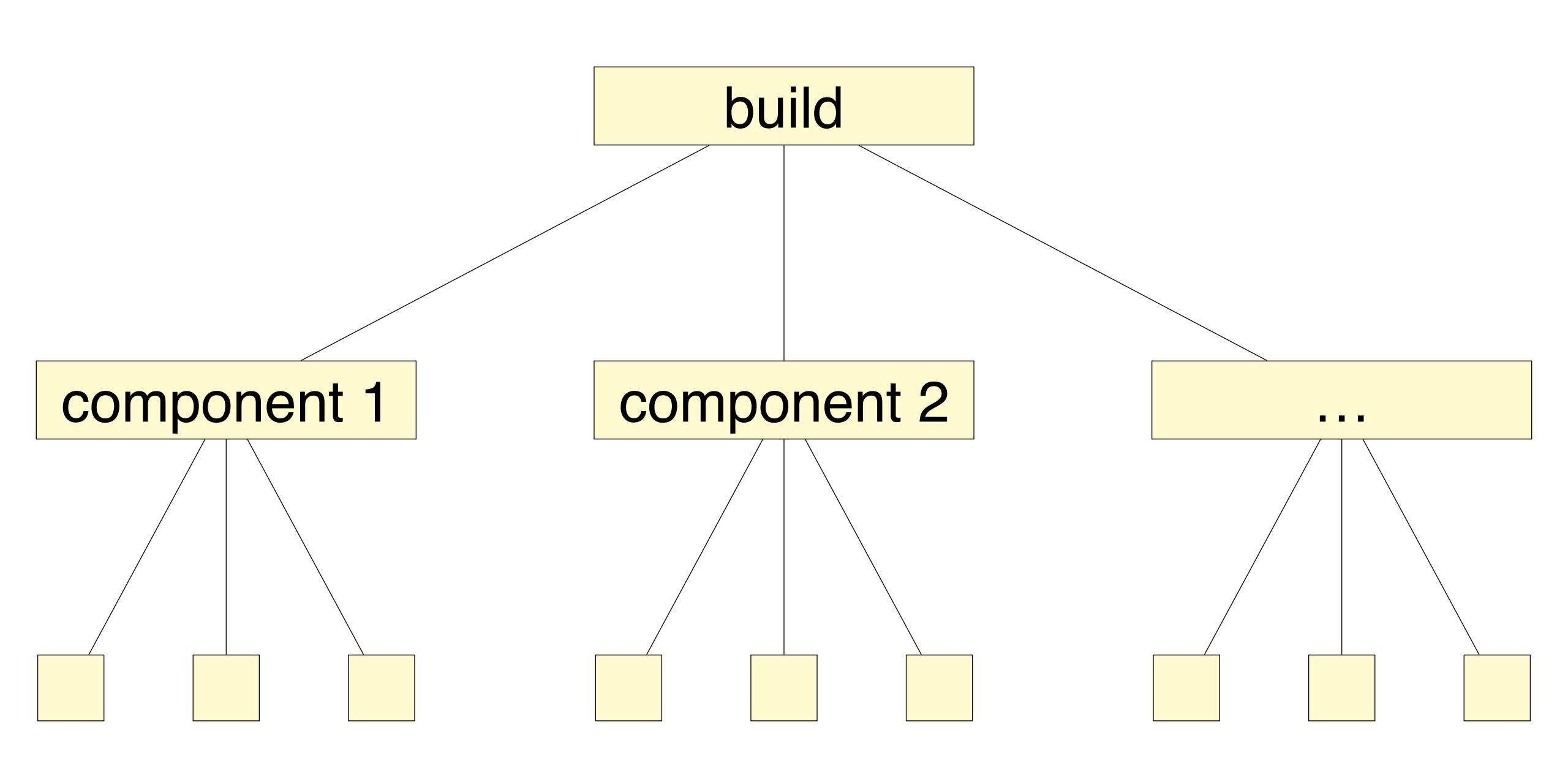
DSL

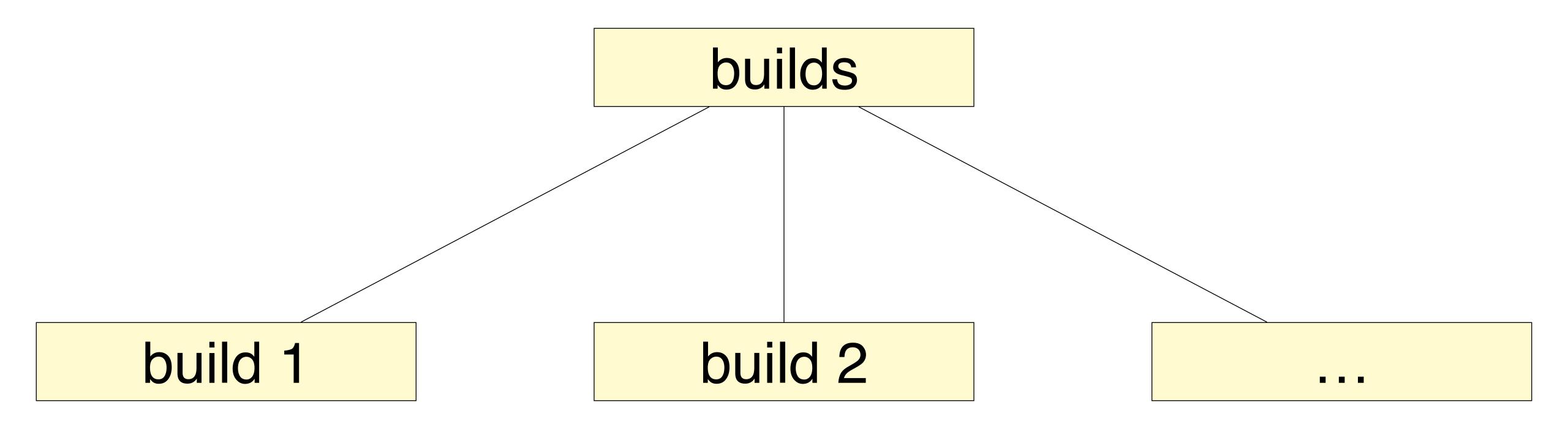
```
"mix deps.get",
"mix compile",
"mix format --check-formatted",
"mix test",
"mix dialyze",
# ...
```

```
{:sequence, [
 "mix deps.get",
 "mix compile",
  {:parallel, [
    "mix format --check-formatted",
    "mix test",
    "mix dialyze"
  ] } ,
```

```
test commands = # ...
dev commands = # ...
prod commands = # ...
{:sequence, [
  "mix deps.get",
  {:parallel, [
    test commands,
    dev commands,
    prod commands
```







not open-source (yet!)

Technical requirement	Server A	Server B
HTTP server	Nginx and Phusion Passenger	Erlang
Request processing	Ruby on Rails	Erlang
Long-running requests	Go	Erlang
Server-wide state	Redis	Erlang
Persistable data	Redis and MongoDB	Erlang
Background jobs	Cron, Bash scripts, and Ruby	Erlang
Service crash recovery	Upstart	Erlang

uniformity

simpler development simpler testing simpler deployment simpler maintenance improved collaboration

technical feature services service manager service registry k-v web server periodical jobs load regulation

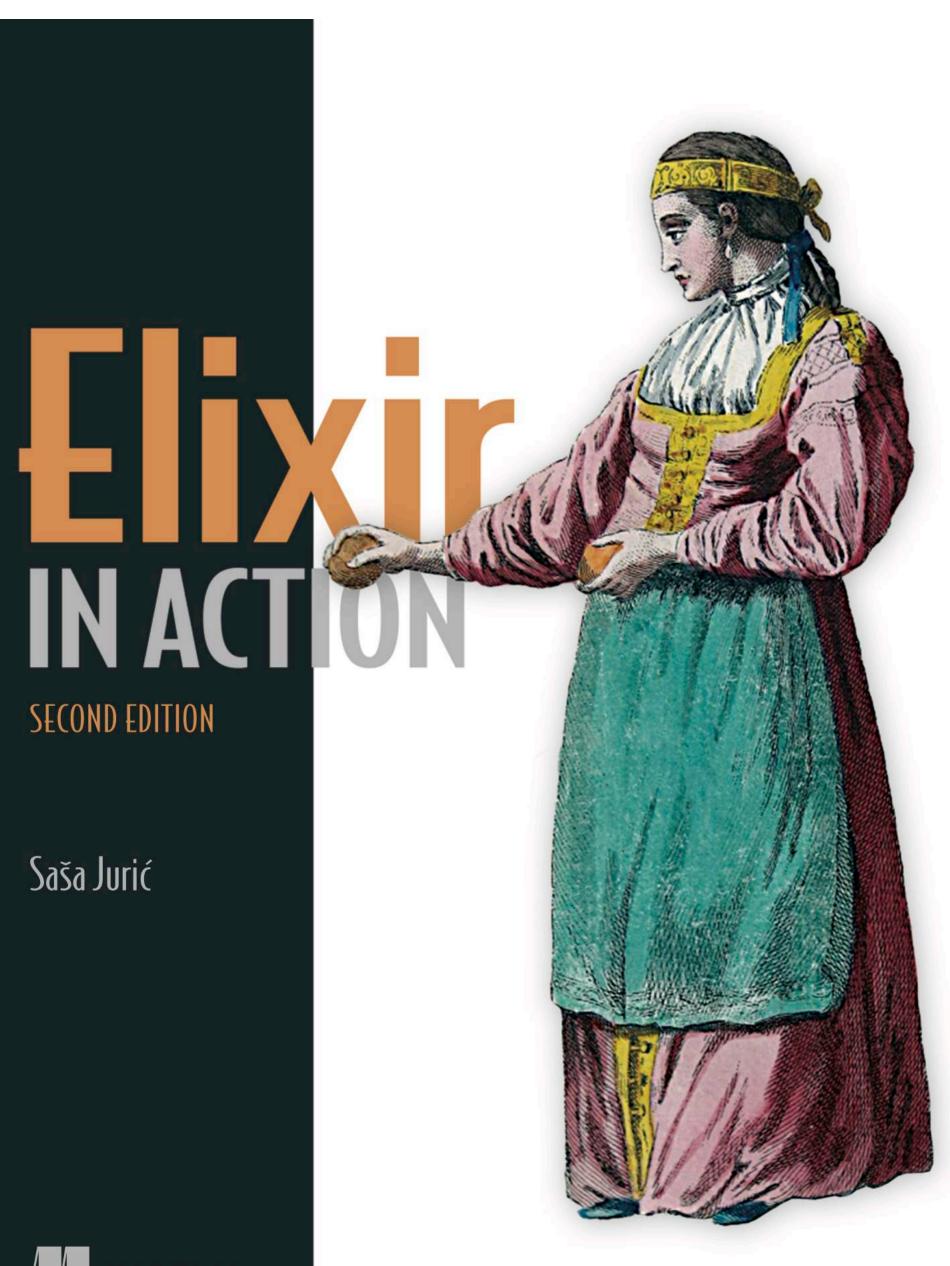
concurrent flows

built-in options GenServer, Task Supervisor Registry ETS, Mnesia Phoenix, Plug, Cowboy :timer, Quantum, Periodic Jobs, Safetyvalve, Sbroker Flow, GenStage

distributed systems persistence partial deployment

They will see us waving from such great heights Come down now, they'll say But everything looks perfect from far away Come down now, but we'll stay

The Postal Service



40% off using code ctwcdbeambo19 at manning.com

