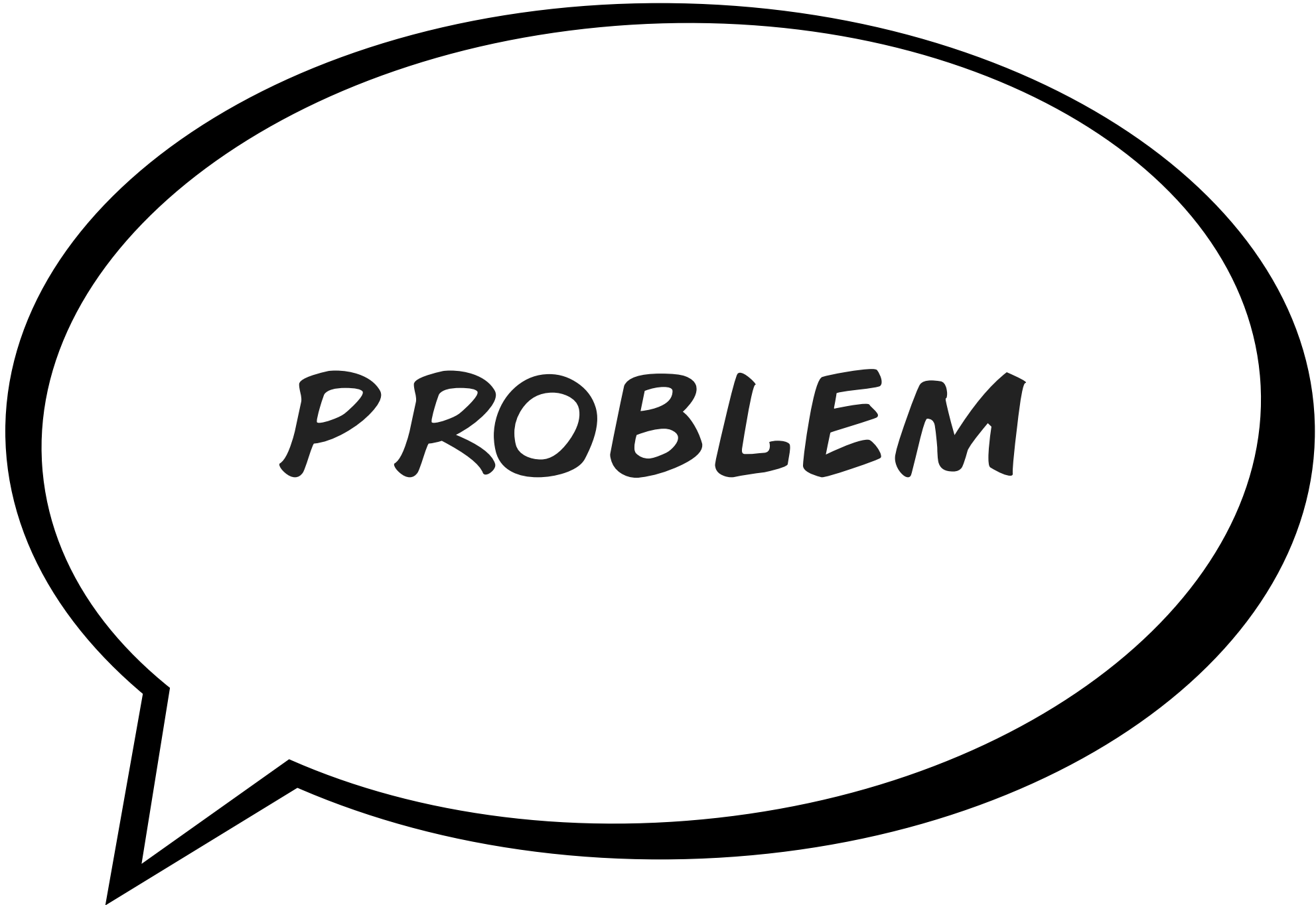


FRONTEND WITH JOY

BY NIKITA PROKOPOV

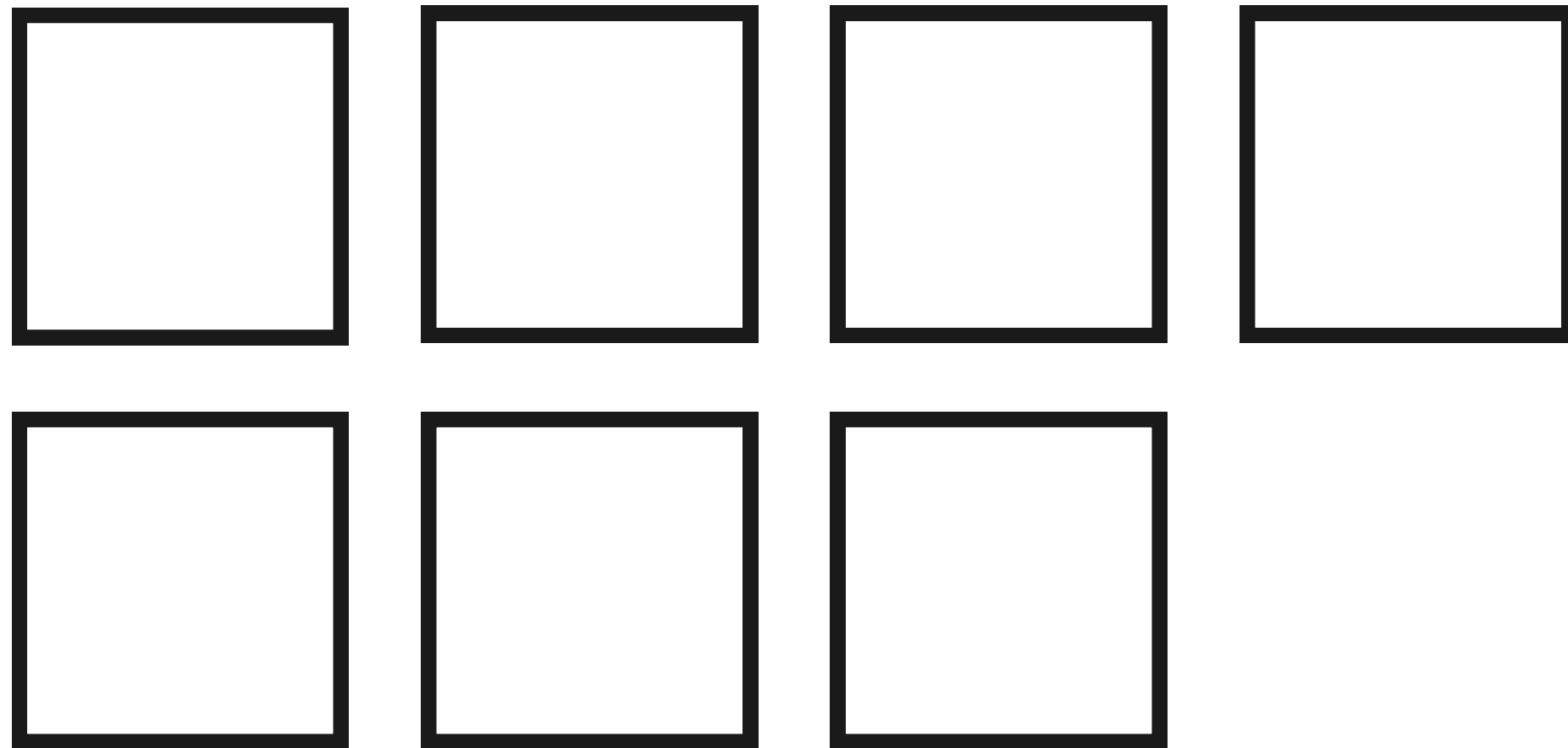
TONSKY.ME

@NIKITONSKY



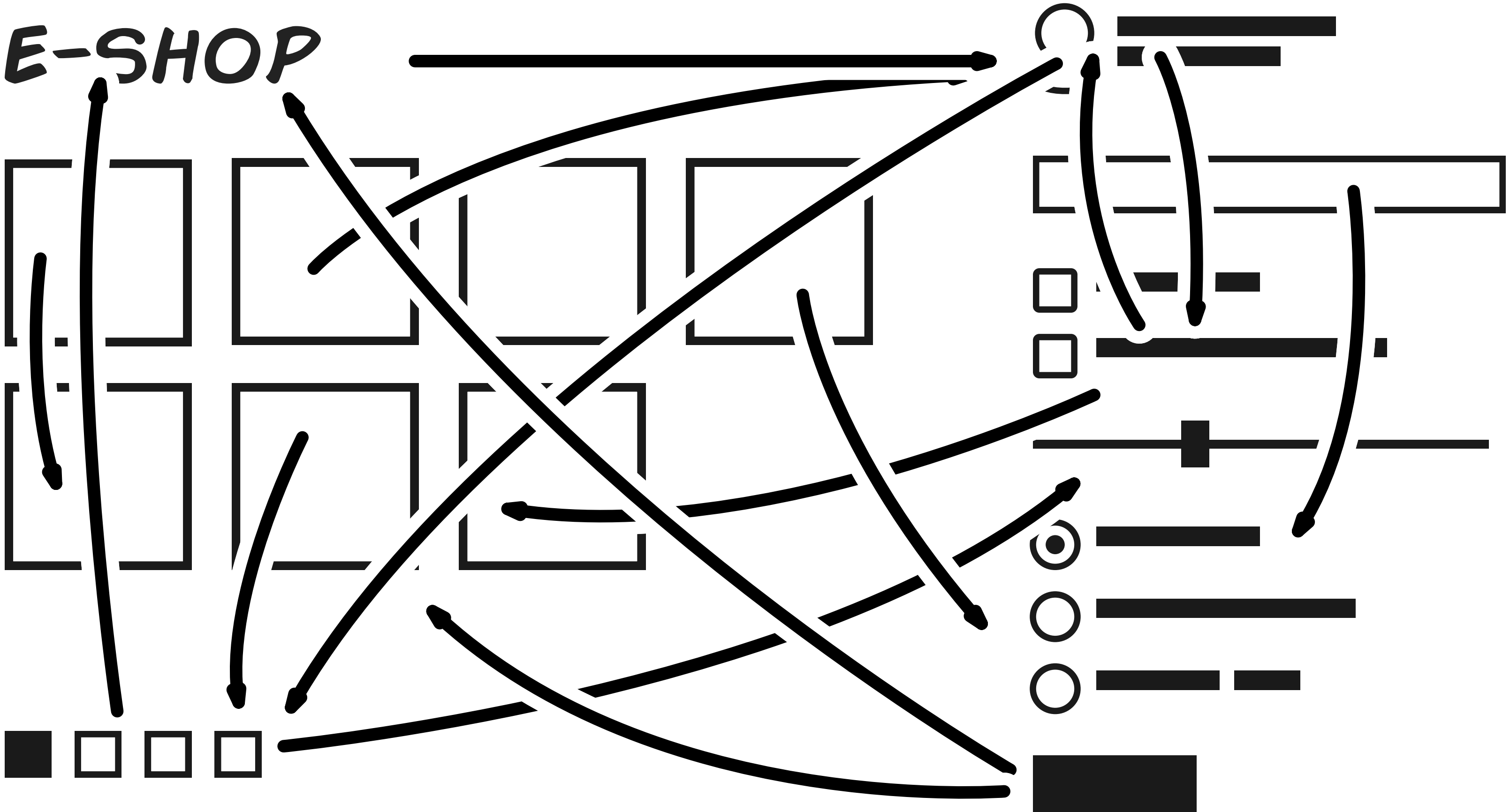
PROBLEM

E-SHOP

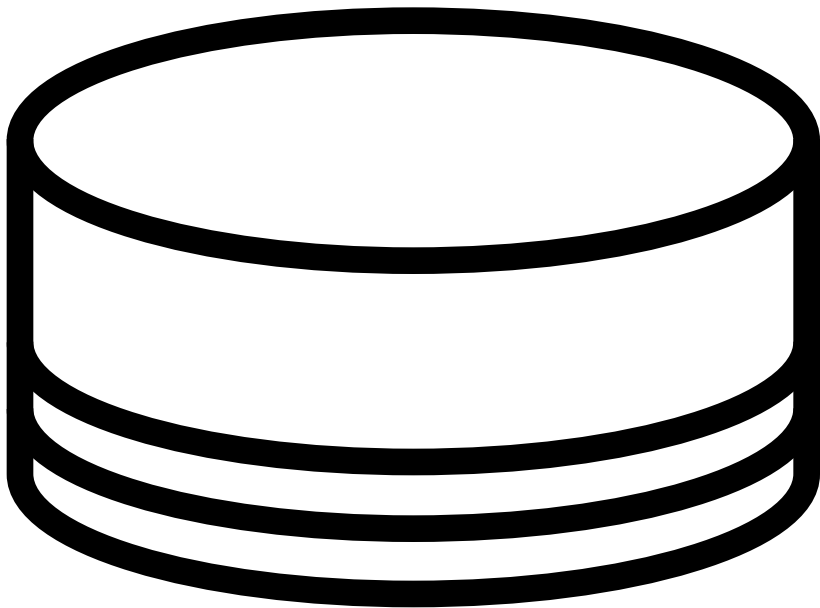
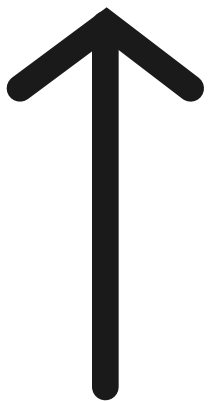
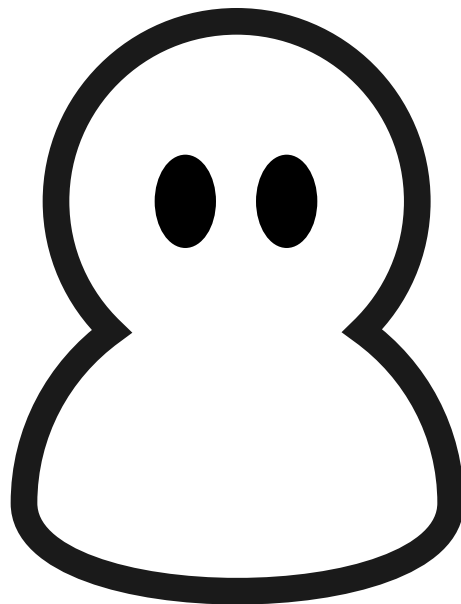
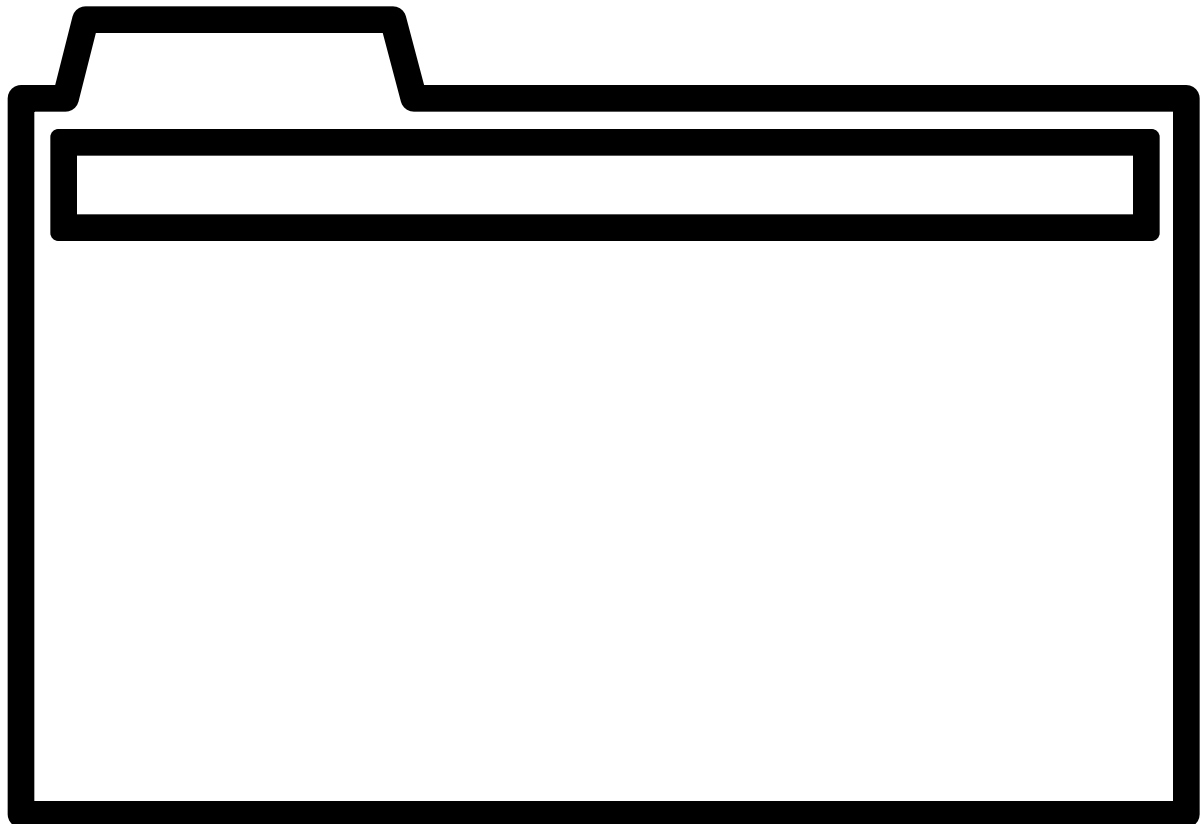
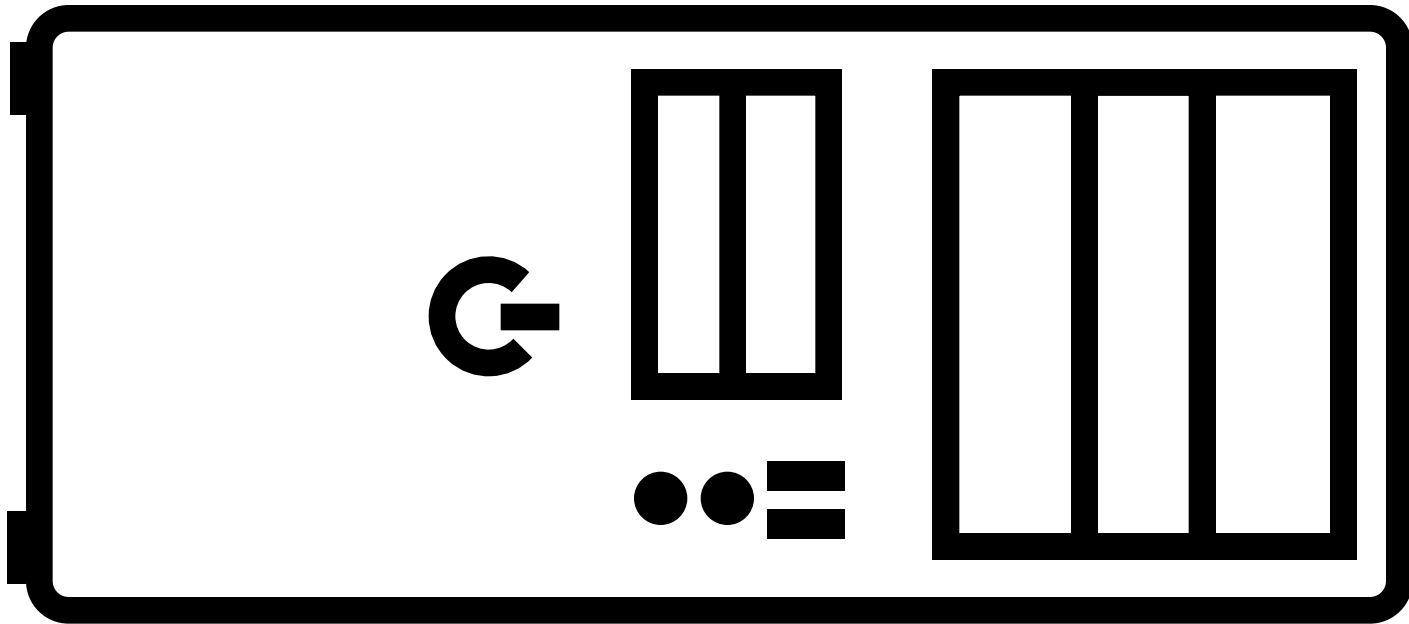


COMPONENTS INTERDEPENDENCIES

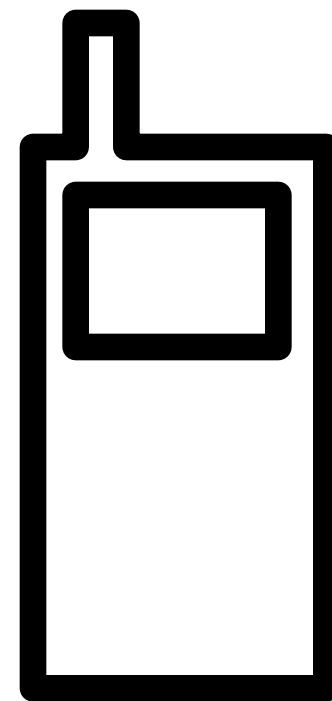
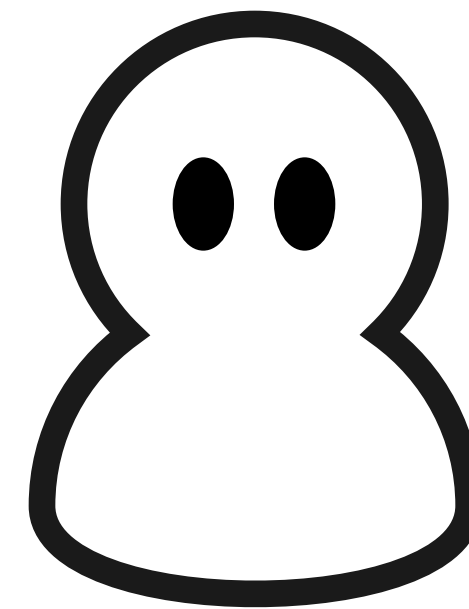
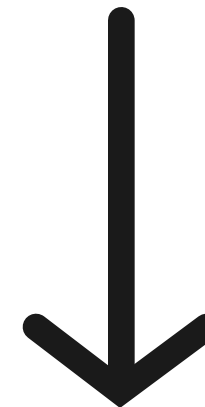
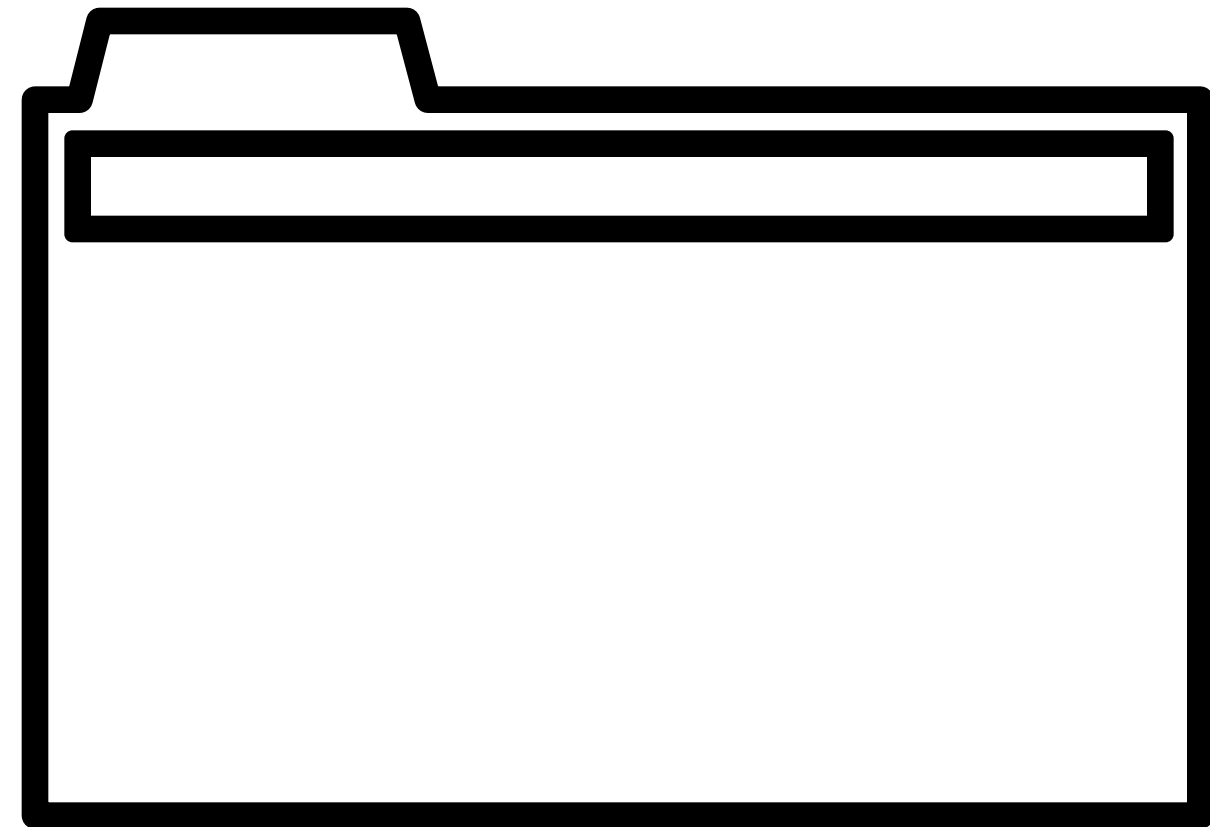
E-SHOP



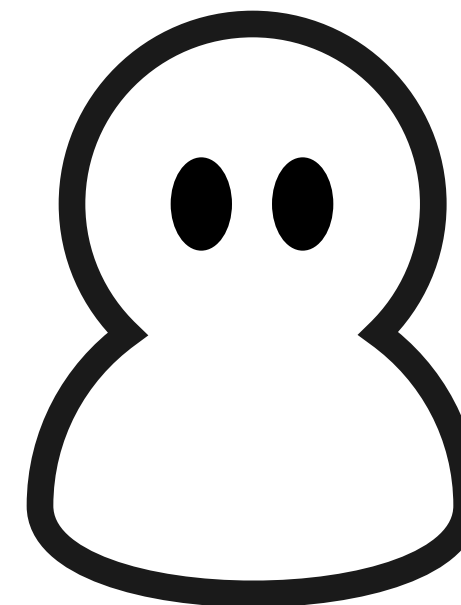
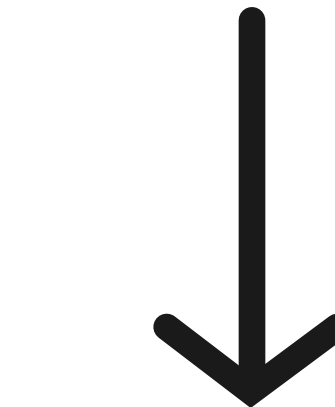
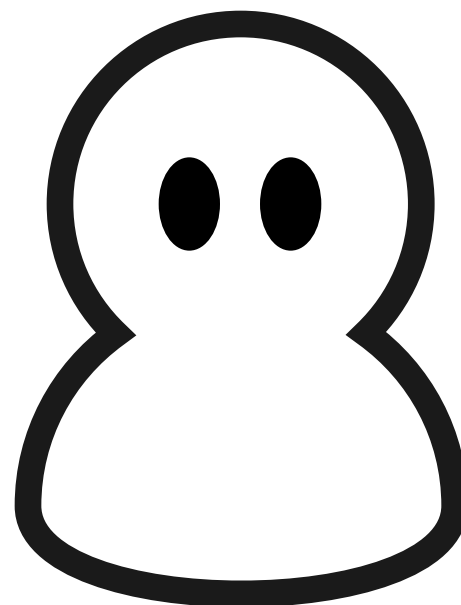
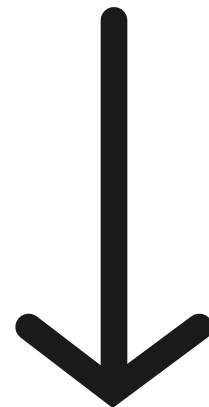
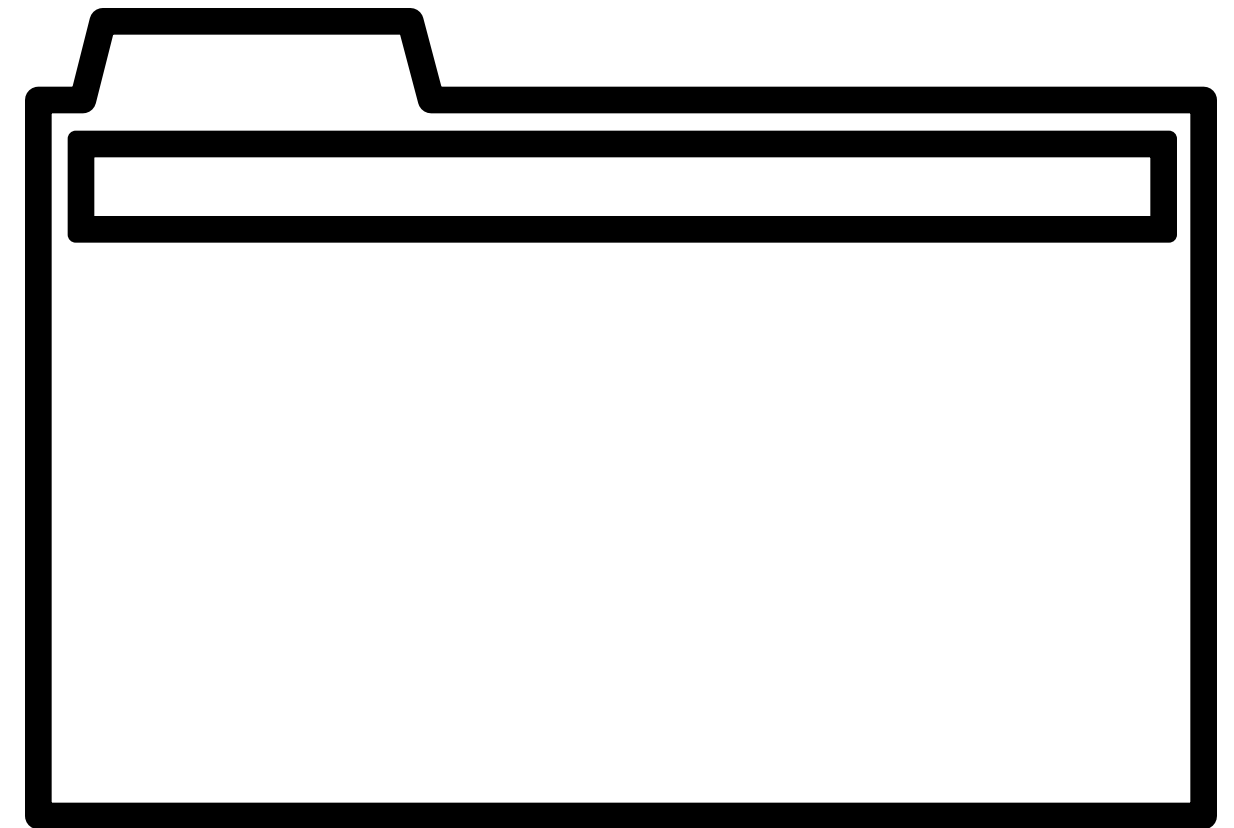
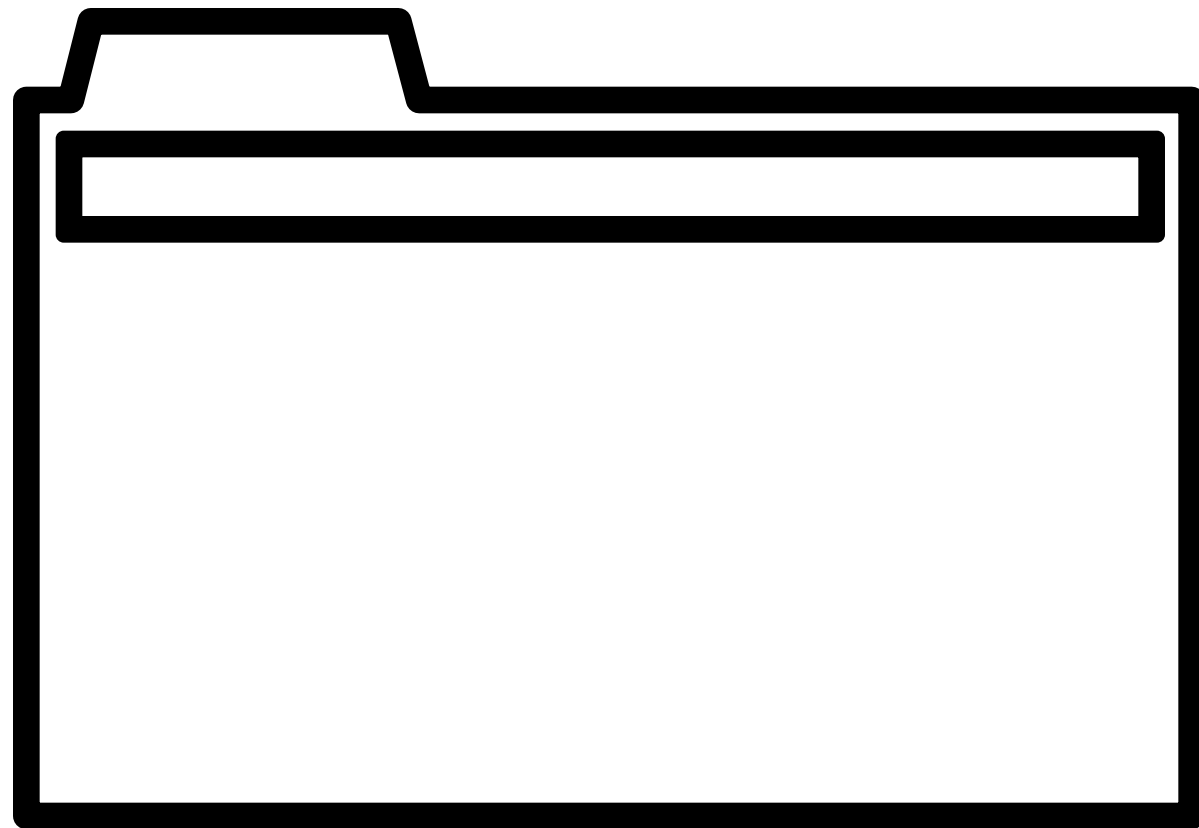
REACTIVE UPDATES



MULTIPLE DEVICES

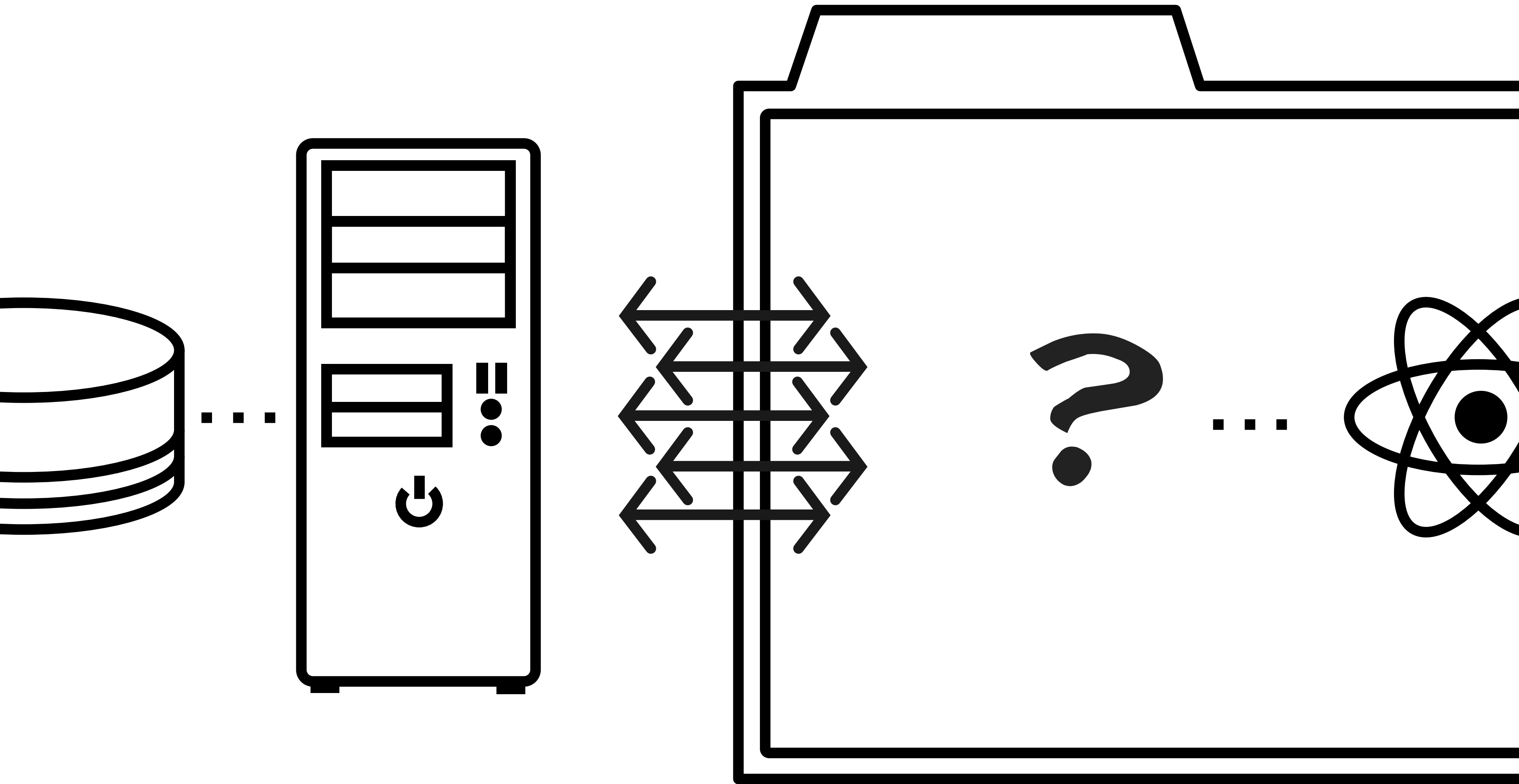


COLLABORATION

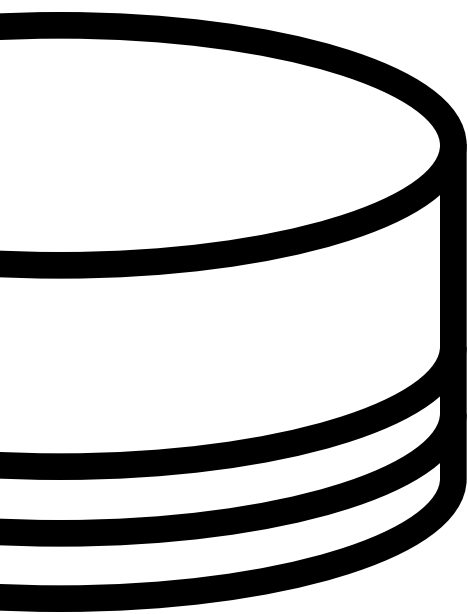




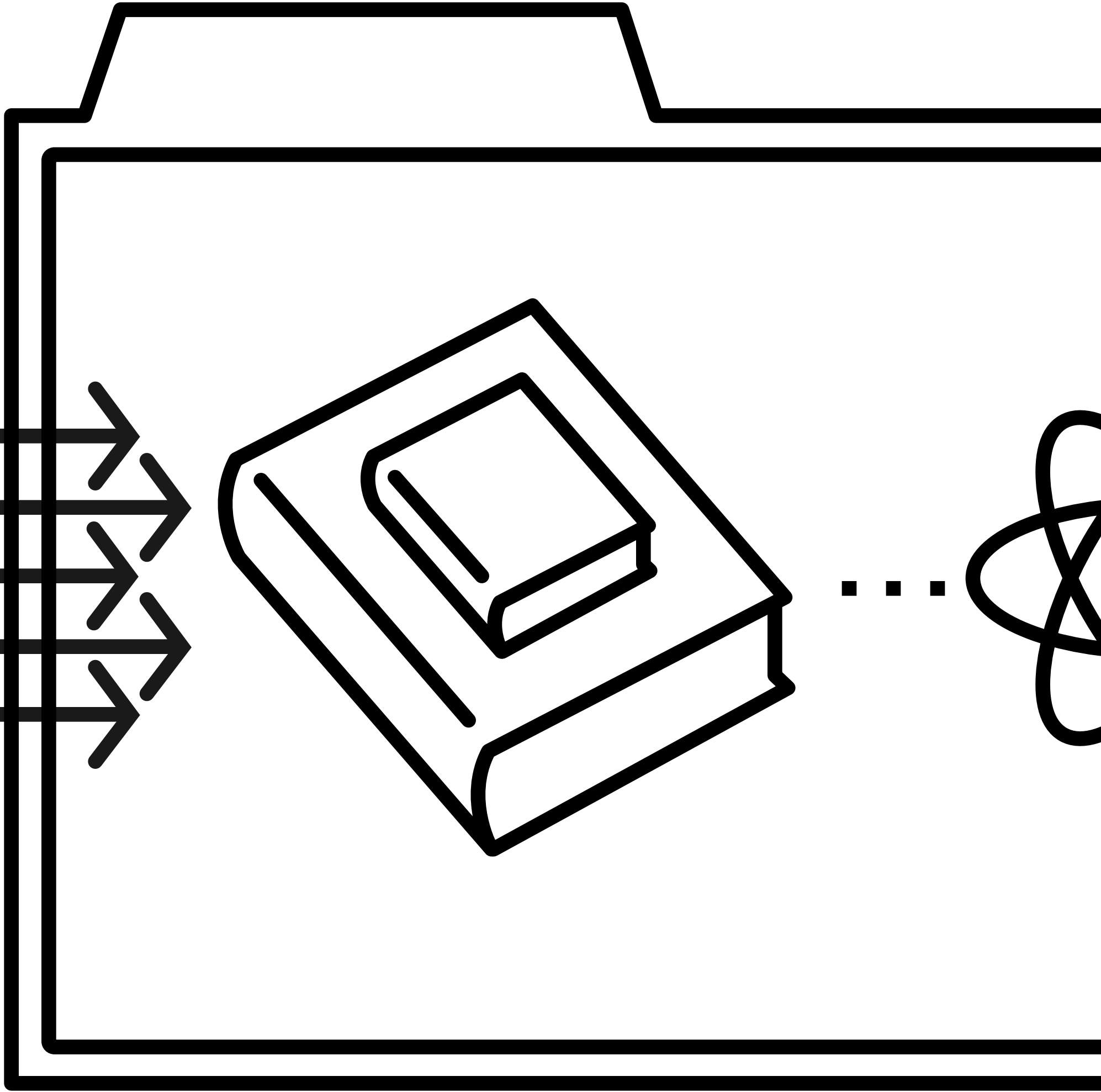
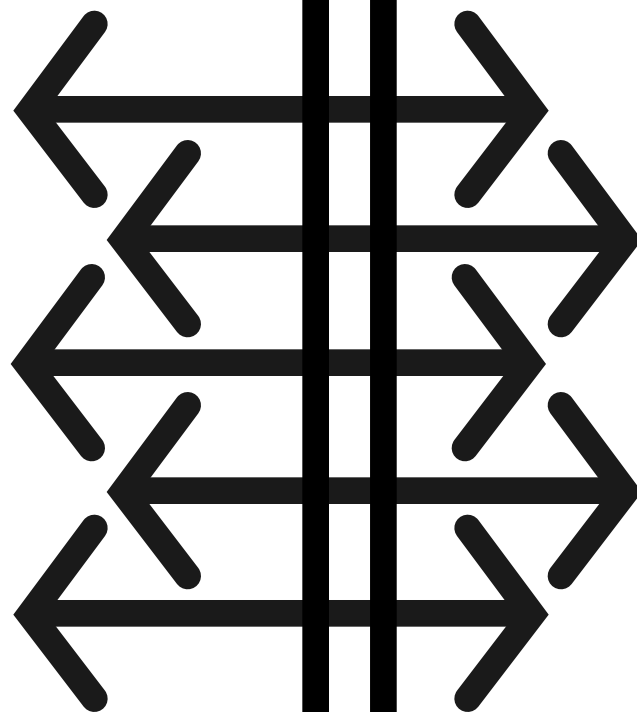
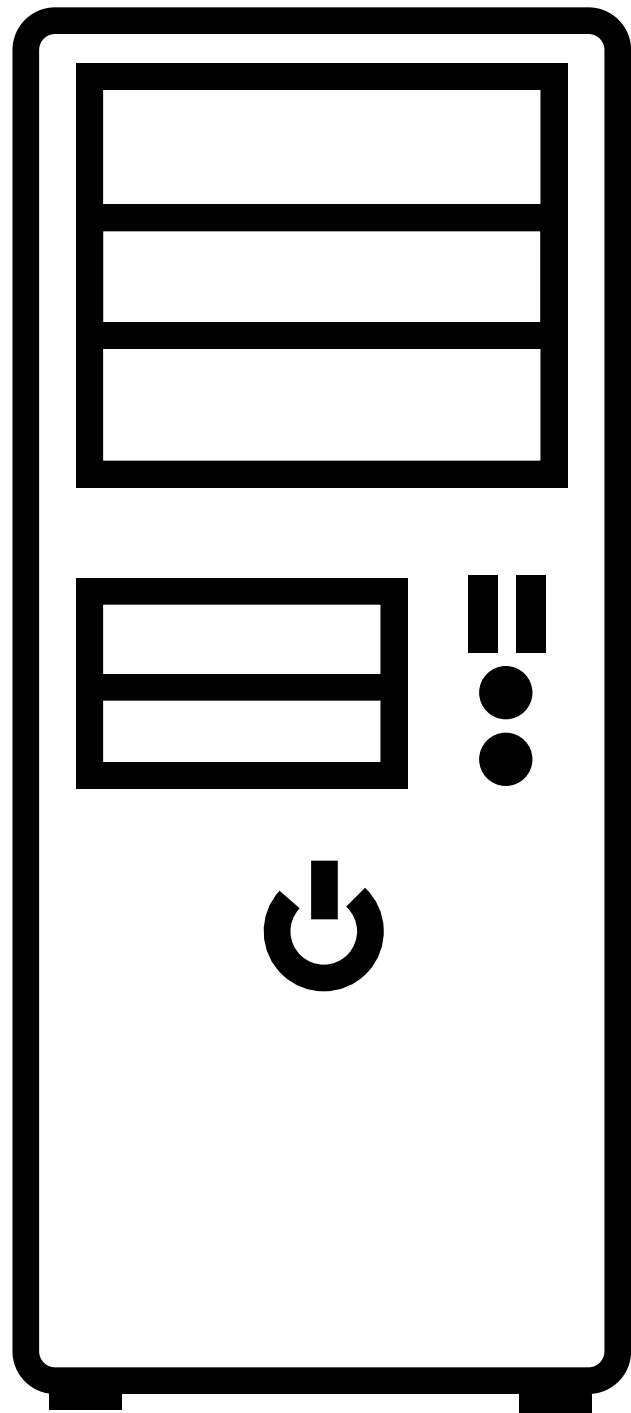
BROWSER-LOCAL STORAGE



AD-HOC DICTIONARIES



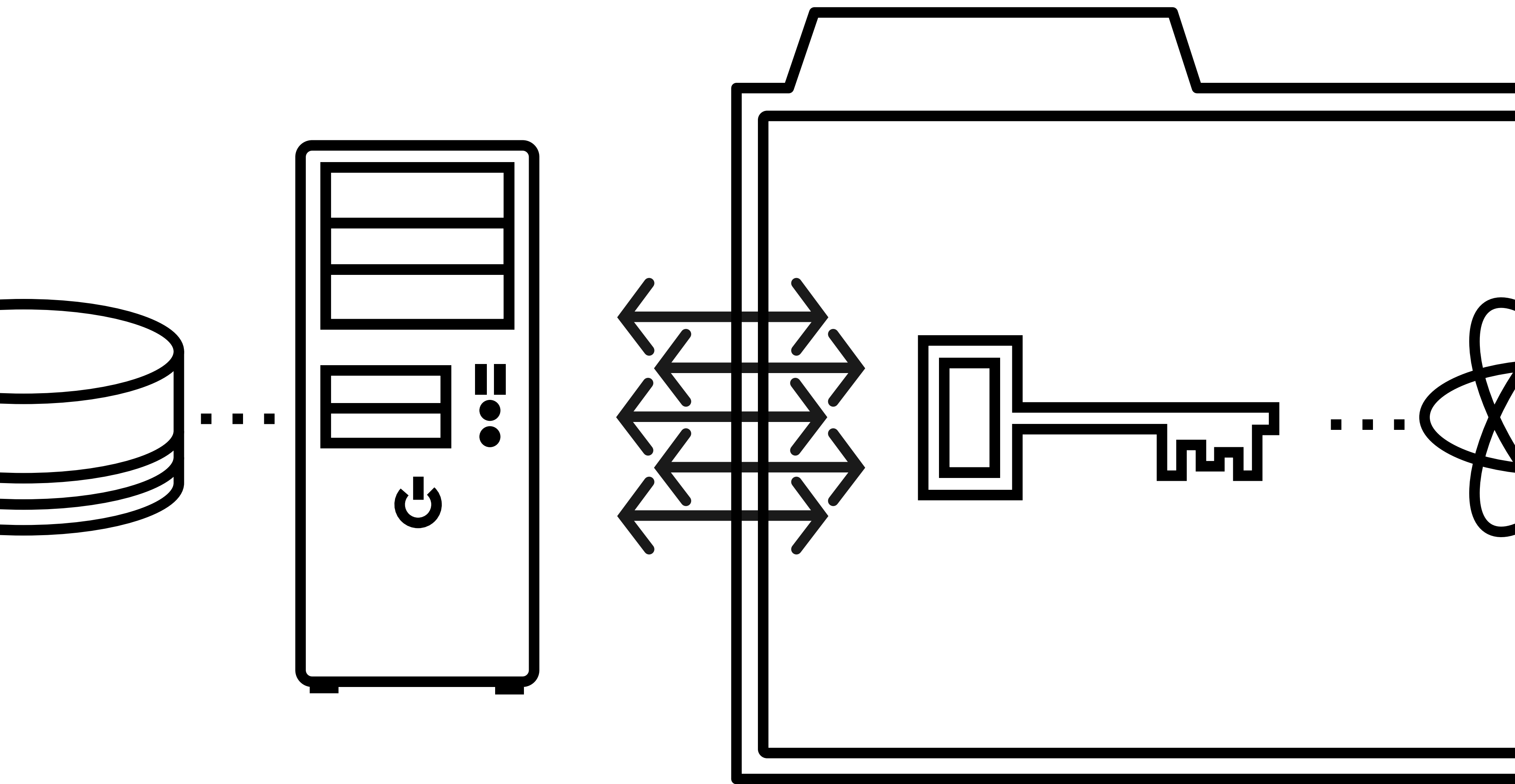
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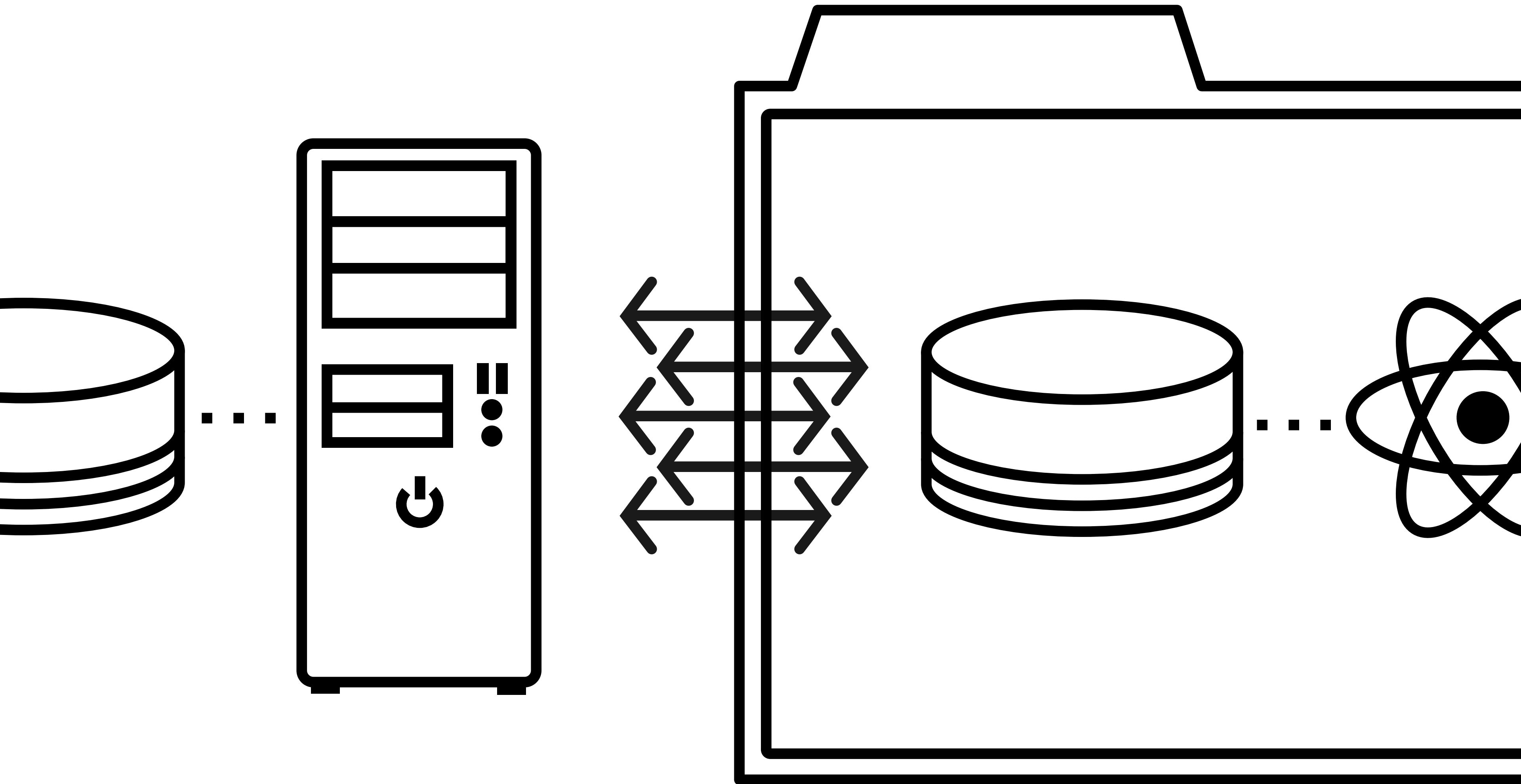
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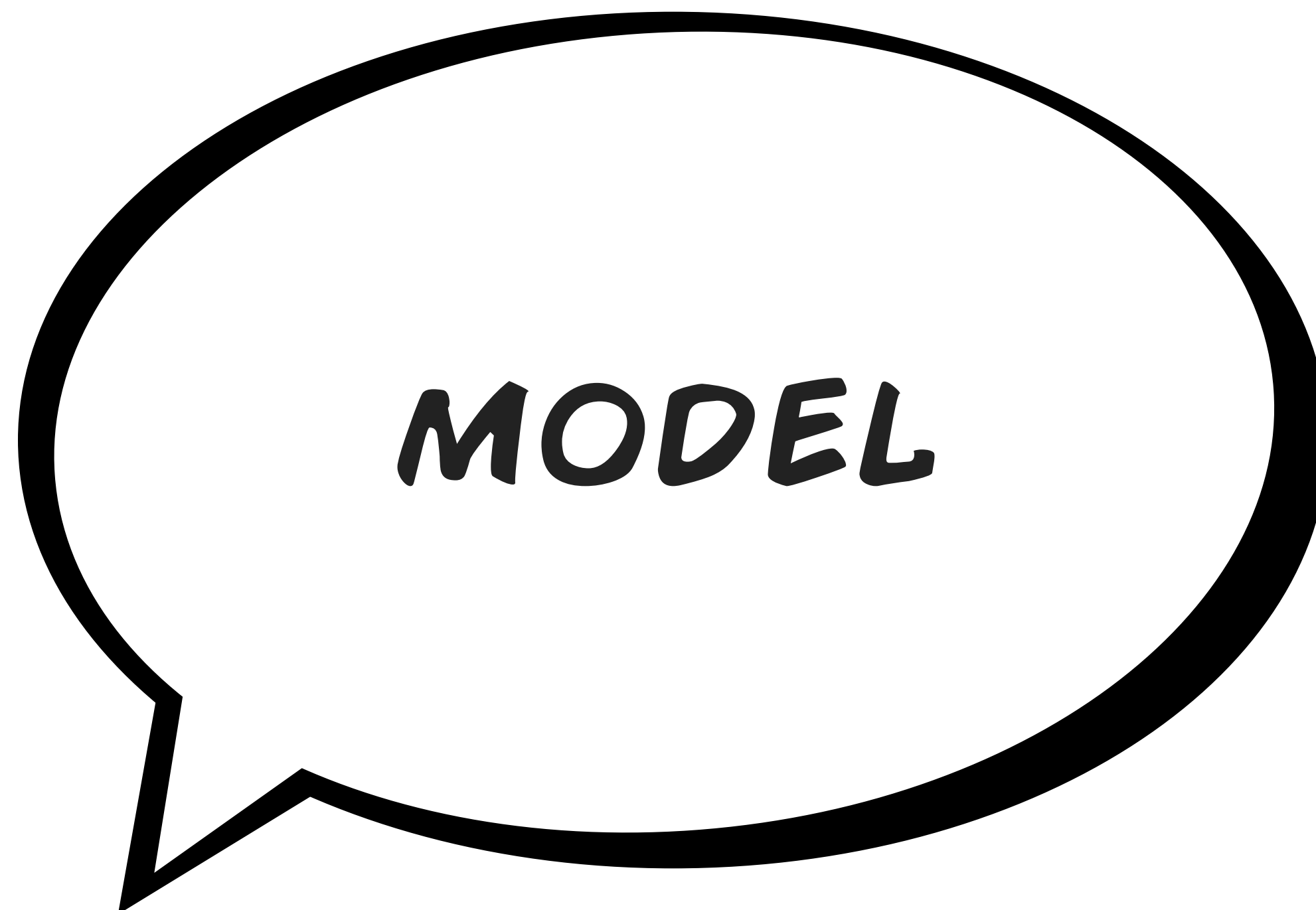
KEY-VALUE STORAGE



IN-MEMORY DATABASE



Δετá≡čr•πt



MODEL

TRIPLE STORE

OLEG IS 35,
LIVES IN MOSCOW
AND HAS A BEAR

E A V

1 :NAME OLEG

1 :AGE 35

1 :LIVES MOSCOW

1 :PET BEAR

1 :NAME OLEG
1 :AGE 35
1 :LIVES MOSCOW
1 :PET BEAR
2 :NAME IVAN
2 :AGE 40
2 :LIVES OMSK
3 :NAME PETR
3 :PET ELEPHANT
4 :NAME IGOR
5 :NAME FEDOR

6 :NAME LIGHTWEIGHT ✓
6 :AGE 10
6 :PET DOG
7 :NAME NIKOLAY
7 :AGE 100
8 :NAME OLGA
8 :PET PARROT
8 :AGE 18
9 :NAME YULIA
9 :AGE 18
9 :PET RAT

MULTI-VALUED ATTRS

1 :PET BEAR

1 :PET DOG

1 :PET ELEPHANT

1 :PET PARROT

1 :PET RAT



QUERIES

PATTERN-MATCHING

1 NAME ?

? :LIVES MOSCOW

JOINS VIA UNIFICATION

?X :NAME OLEG

?X :LIVES MOSCOW

MULTIPLE RETURNS

?X :NAME OLEG

?X :LIVES ?CITY

RECURSIVE QUERIES

(FRIEND ?A ?B)

(OR [[?A :FRIEND ?B]]

[[?A :FRIEND ?X]

(FRIEND ?X ?B)])

ALSO...

CROSS-DB JOINS

QUERIES OVER COLLECTIONS

AGGREGATIONS

USER FN/PREDS IN QUERIES



Enterprise Git Achievement Solution
Web Scale. In the Cloud

ACHA-ACHA.CO

Users



Vladislav Bauer
bauer.vlad@gmail.com

34 ●



Nikita Prokopov
prokopov@gmail.com

26 ●



Andrey Vasenin
vaseninlol@gmail.com

15 ●



Renat Idrisov
parsifal.47@gmail.com

7 ●



ben fleis
ben.fleis@gmail.com

6 ●



David Thomas Hume
dth@dthu.me

5 ●

Repos

lj2fb2

<https://github.com/erohinaelena/lj2fb2>

datascript

<https://github.com/tonsky/datascript.git>

acha

<https://github.com/someteam/acha.git>

clojure **SCANNING**

<https://github.com/clojure/clojure.git>

asciidoctor-lein-plugin

<https://github.com/asciidoctor/asciidoctor-lein-plugin>

manet

<https://github.com/vbauer/manet>

android-arsenal.com

<https://github.com/vbauer/android-arsenal.com>

lein-plantuml

<https://github.com/vbauer/lein-plantuml.git>

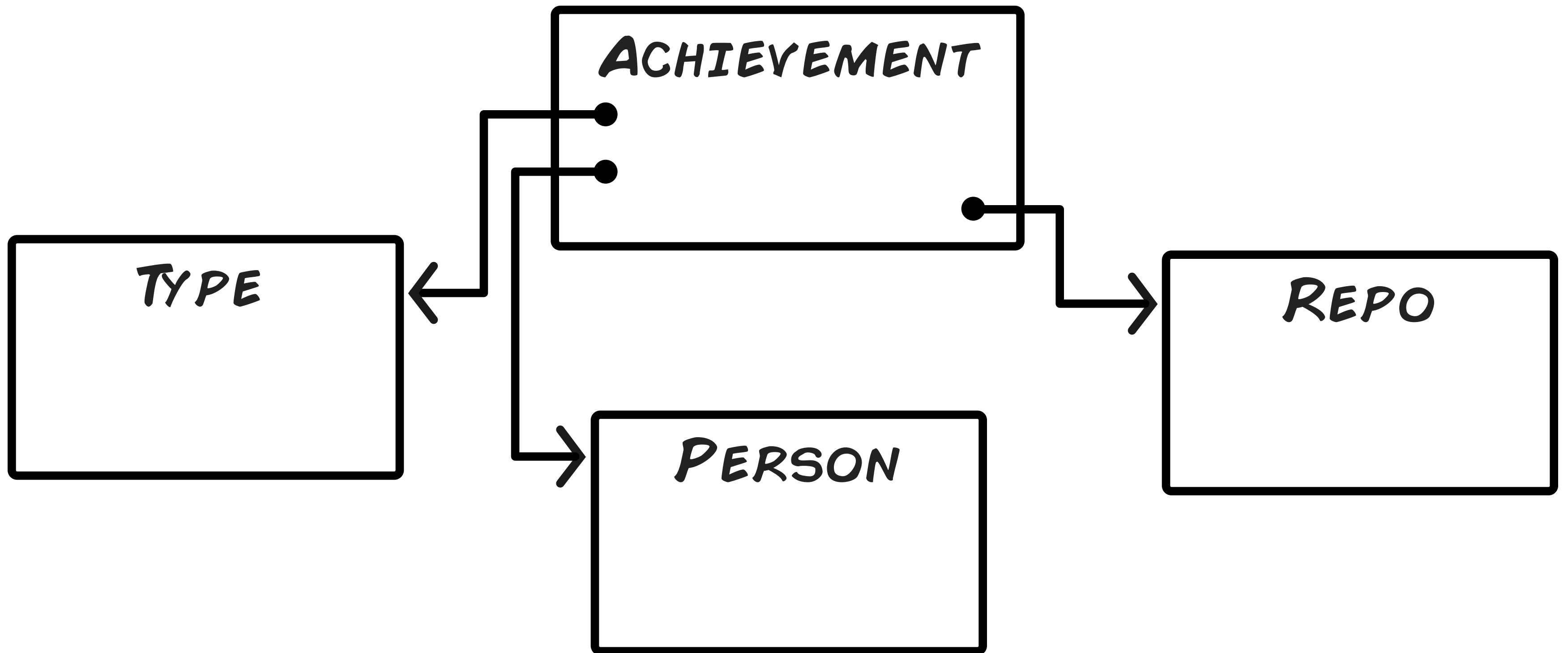
winphonedriver **SCANNING**

<https://github.com/2gis/winphonedriver.git>

quiescent **FETCHING**

<https://github.com/levand/quiescent>

aoide



Search - LightMesh CMDB

app.lightmesh.com/is/server

LightMesh

0

Service Management

Solution Design

Build

Operations

Solutions

Service Design Package

Applications

Systems

Networked Devices

All

Servers

Virtual Servers

Topology

All

Datacenters

Zones

VLANs

Subnets

Cabinets

Routing

All

Switches

Routers

Firewalls & Contexts

Load Balancers

Cabling

Details

IP Addresses

DNS Entries

Firewall Rules

SSL Certificates

Juan Ostler

Service Managers

Change Password

Logout

Filters

Category

Routing

Virtual

Parts

Virtual

Name

Description

Create a Record

VM

acnpiecdcwropa01

VM

acnpiecdcwhiis01

VM

acnpiecdcwhiis02

Cloud VM

acnpiecdcwhiis03

Cloud VM

acnpiecdcwhiis04

VM

acnpisgcdcwropa01

VM

acnpisgcdcwhiis01

VM

acnpisgcdcwhiis02

VM

acnpisgcdcwhiis03

VM

acnpisgcdcwhiis04

Cloud VM

dkc_vpc_nat_svr

Cloud VM

euc_apmdw01

Cloud VM

vpc_whapa01

Cloud VM

web_app_server_3

Cloud VM

web_app_server_4

Cloud VM

web_app_server_5

16 of 16

< > [x] []

Filtering with 4

VM: 2

Cloud VM: 2

Drill Up

Notes

Incidents

Problems

Releases

RFCs

Service Requests

Tickets

Transition To

Interfaces

Physical Zone

Drill Down

External Records

Import Records

Customers

Support Groups

Transitioned From

Cluster

Systems

Jobs

Undeploy

Zone: Front End

Zone: Mid Tier

2 of 2

< > [x] []

Not Filtered

Drill Up

Parent Zone

Drill Down

External Records

Import Records

VLANs

Subnets

Networkeds

Child Zones

Available VM Host Pools

Racks

Queries

Available Racks

All Zones

All Subnets

All VLANs

All Devices

All Systems

All Applications

All Tickets

Support



MK20DX128VFM5

MCU 32-bit Kinetis K20 ARM Cortex M4 RISC 128KB Flash 1.8V/2.5V/3.3V 32-Pin QFN EP Tray

• Linked

- Part Info
- Linked Info
- Add Stock
- Remove Stock
- Stock History
- Part Storage
- Other Operations

Manufacturer:

Freescale Semiconductor

Datasheet (1736kB, 58 pages)

Footprint:

QFN-32

Pricing/availability:

Octopart

Your data:

Notes:

(edit)

Average price:

10.17

Tags:

Active

Created:

06.01.2015 14:21:36 (6 months ago)

Categories:

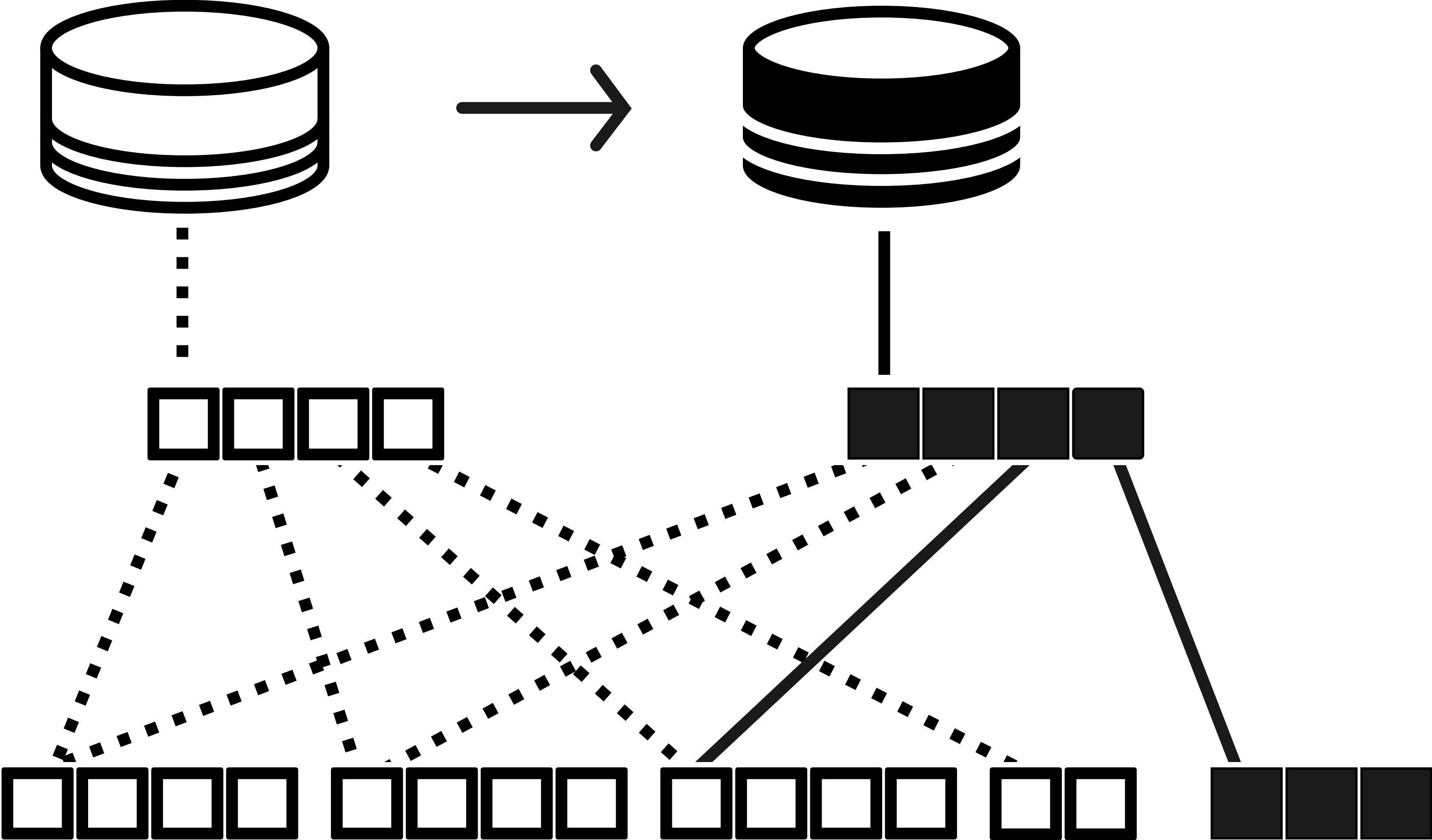
1 IC>>Microcontrollers and I/O

Where is it?

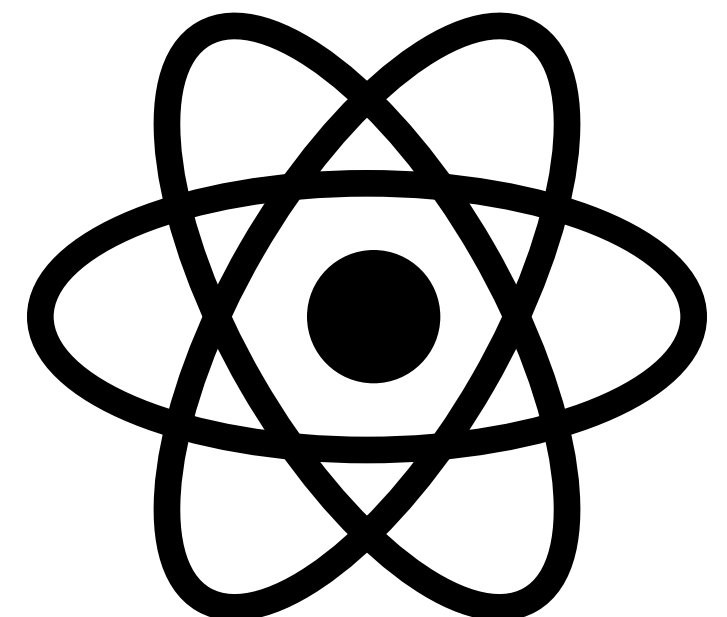
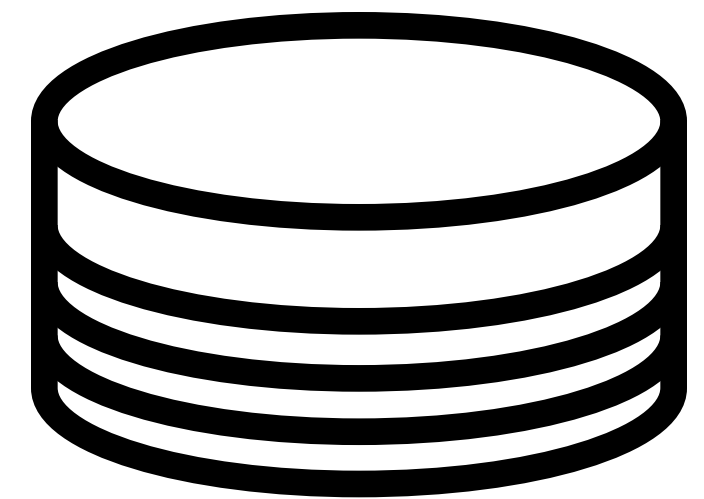
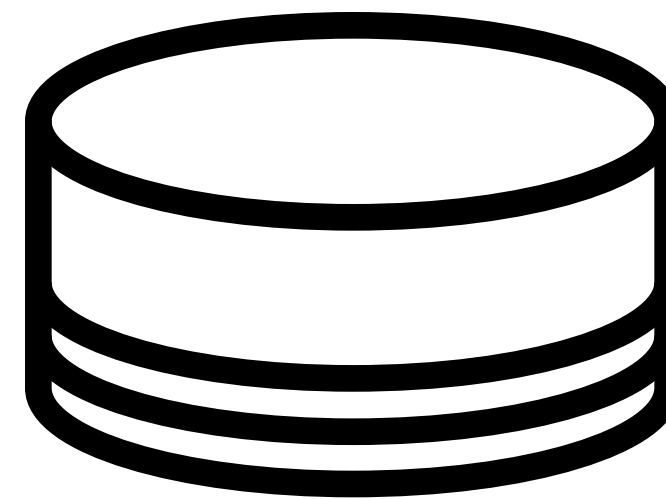
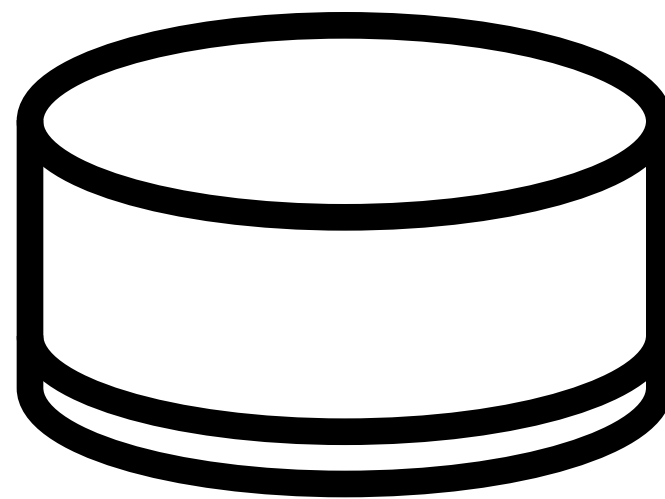
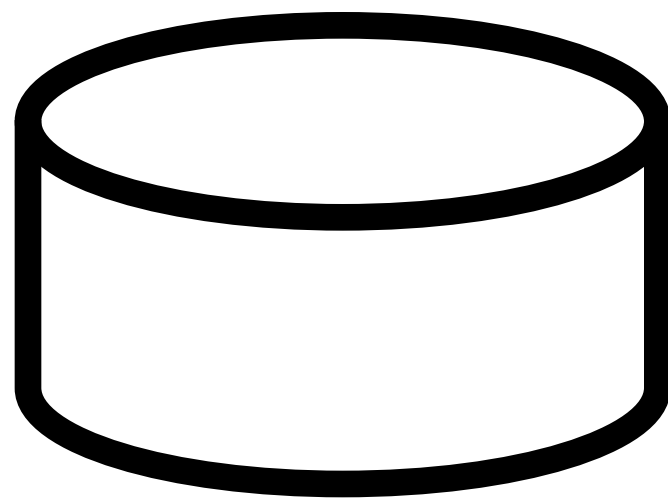
Storage Location	Quantity	Last Accessed
b02-a3	10	22.06.2015 21:29:52 (12 days ago)
b01-c1	8	12.01.2015 14:19:28 (6 months ago)



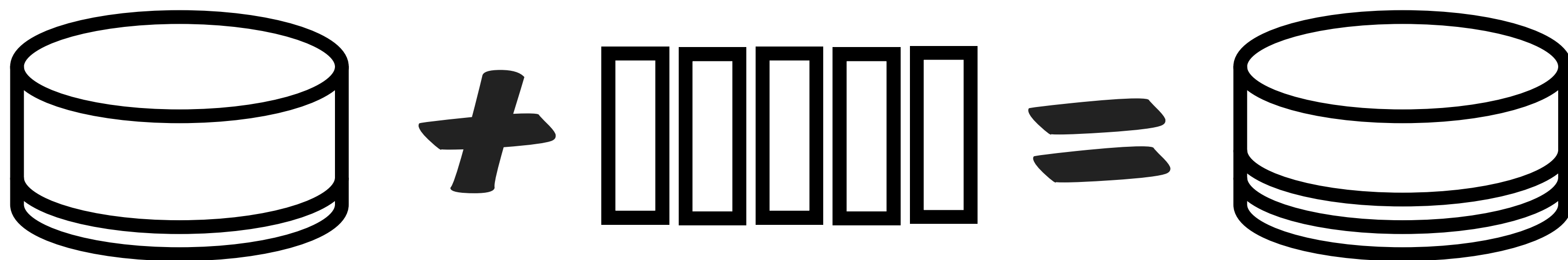
STRUCTURAL SHARING



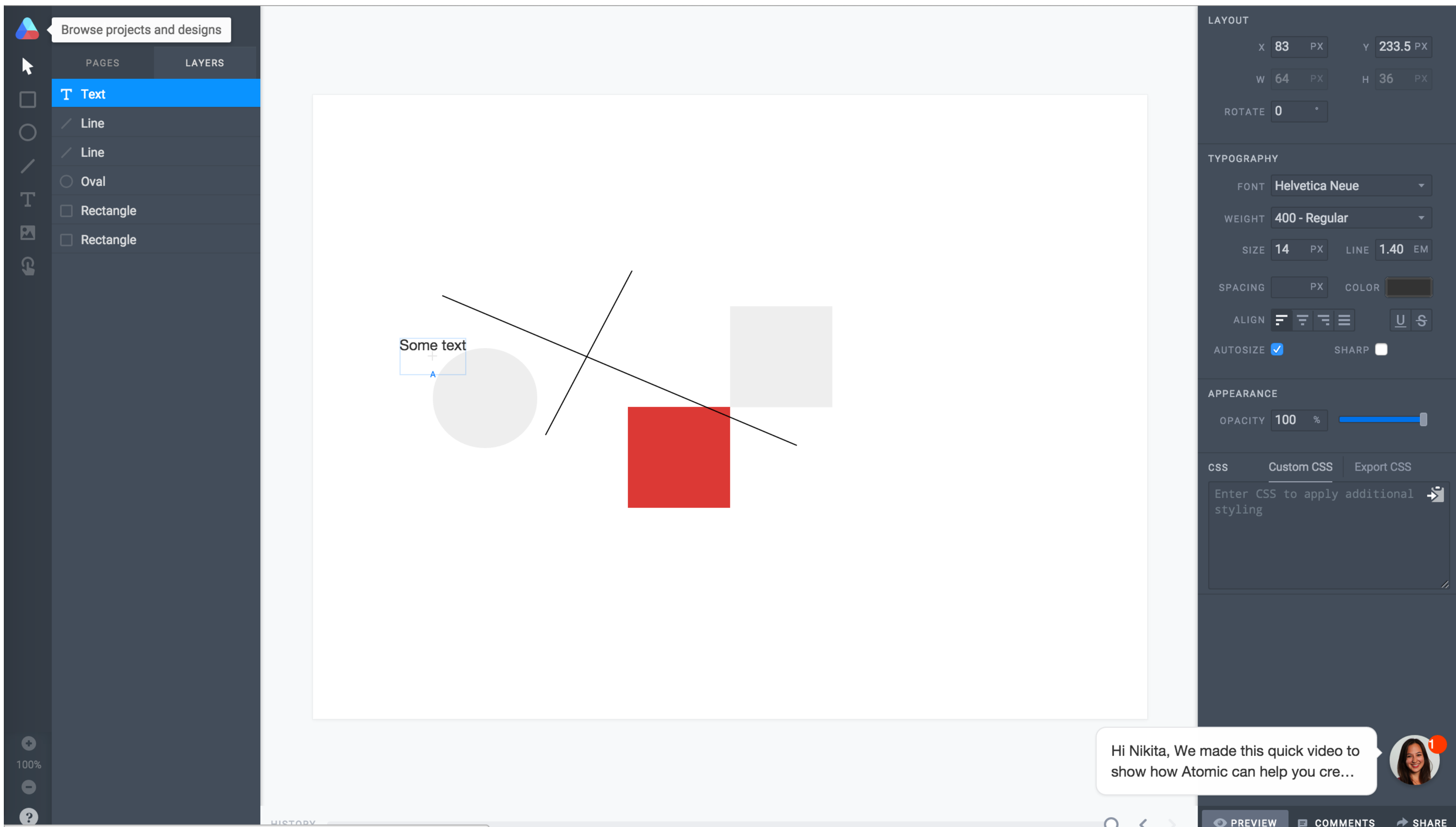
HISTORY AS DATA SOURCE



SPECULATIONS



ATOMIC.IO



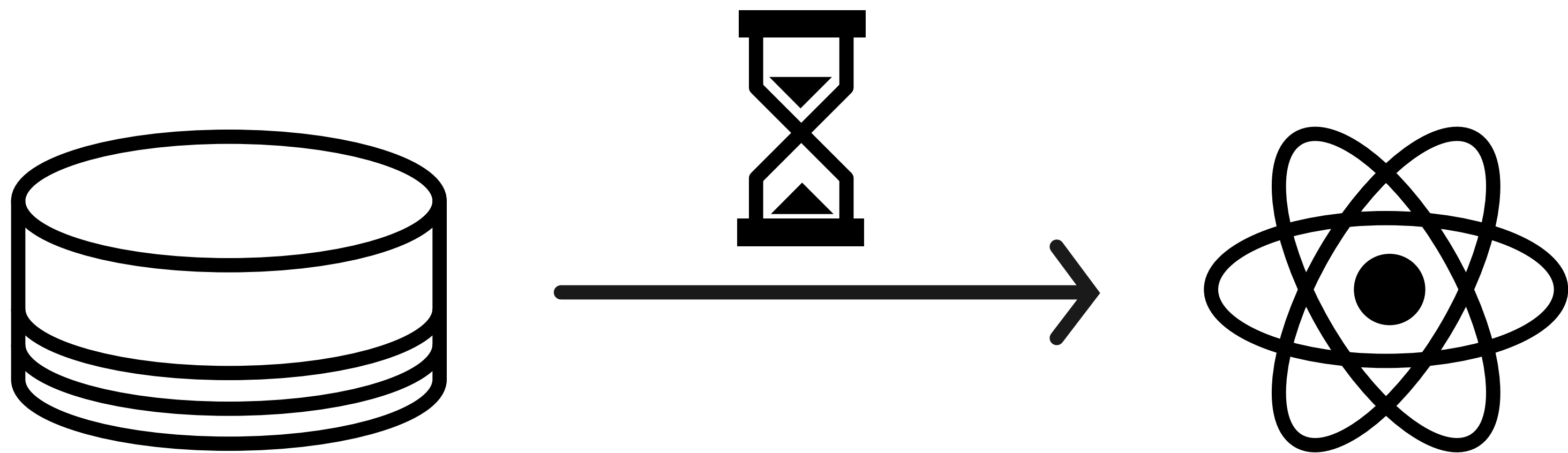


DELTAS

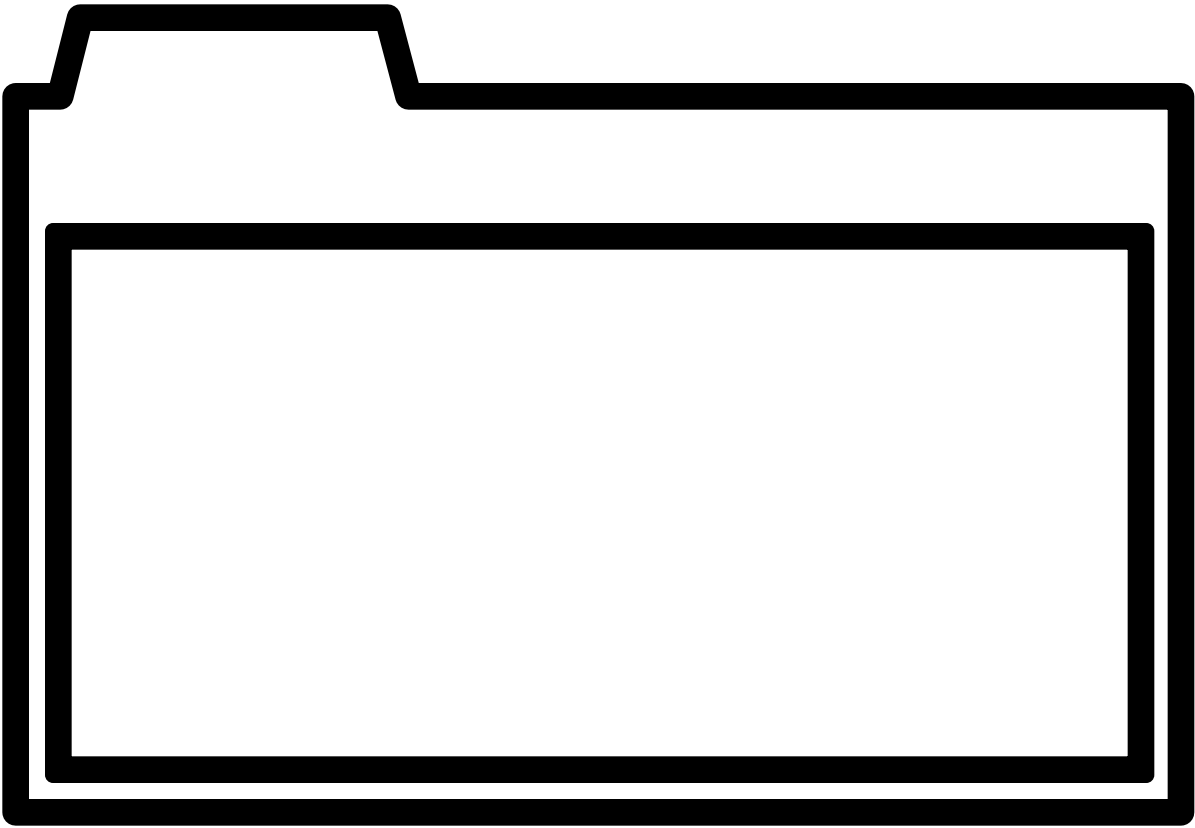
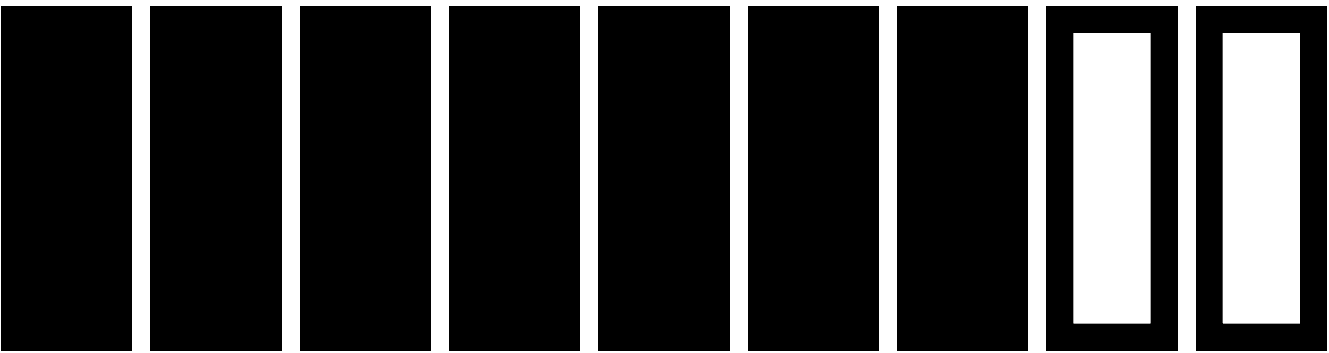
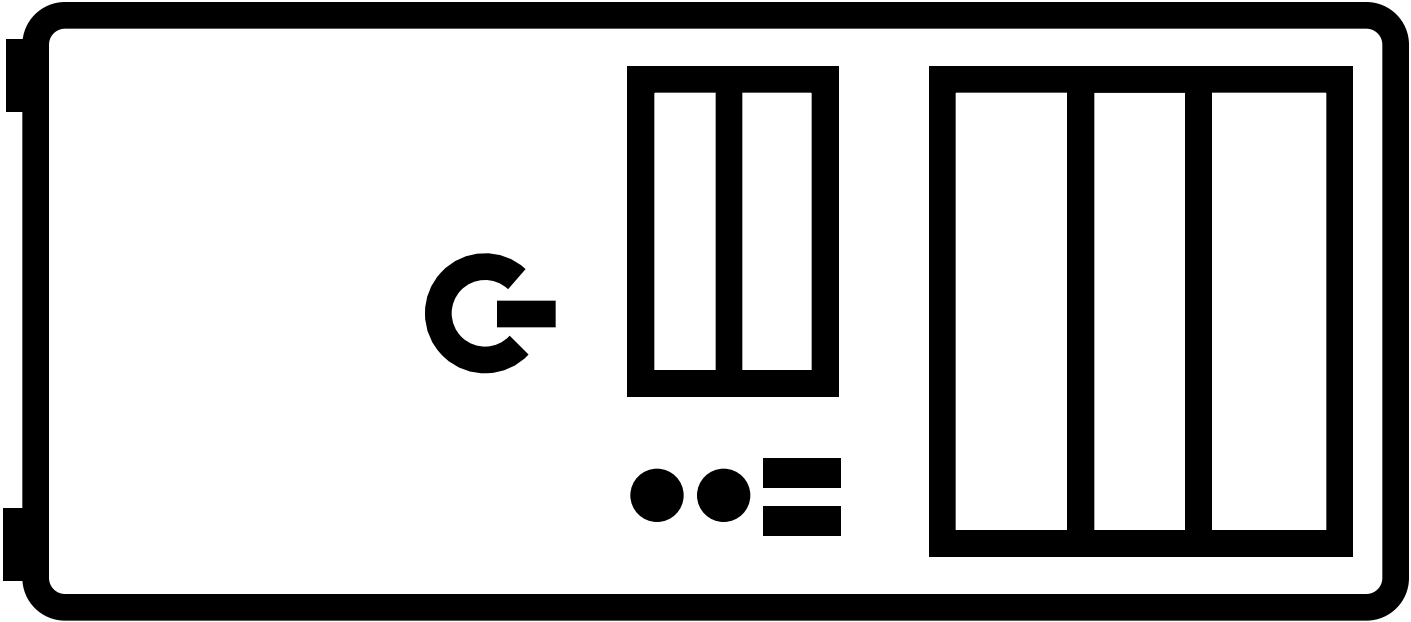
- 1 :NAME OLEG

+ 1 :NAME IVAN

REACTIVE UPDATES



LOG SYNC





SUMMING UP

$\Delta e \dot{t} \acute{a} \Xi \check{c} r \cdot \pi \underline{t}$

LIGHTWEIGHT

INDEXES

QUERIES

IMMUTABLE

DELTAS

REACTIVE

RELATIONAL

GRAPH

SPARSE

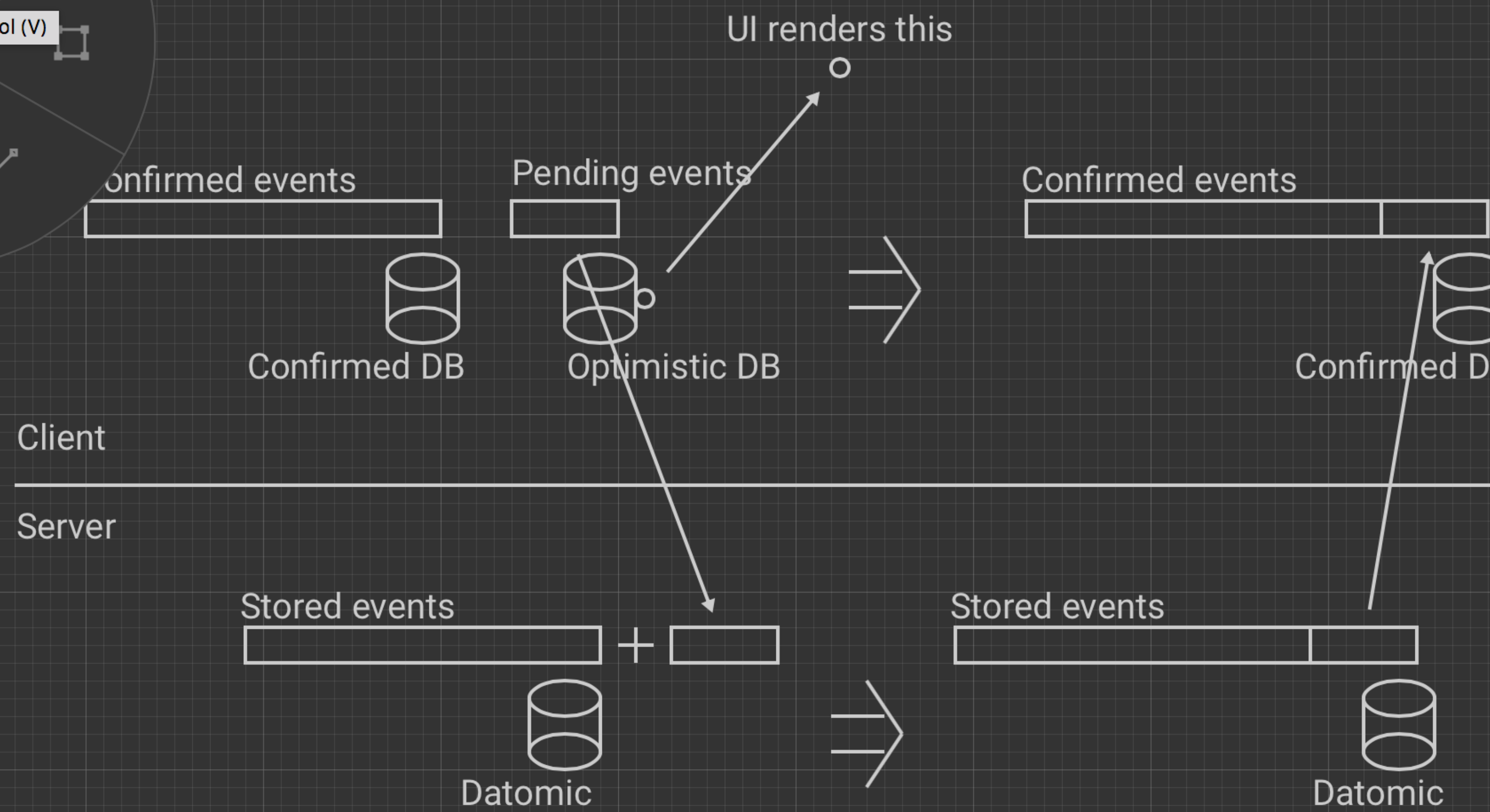
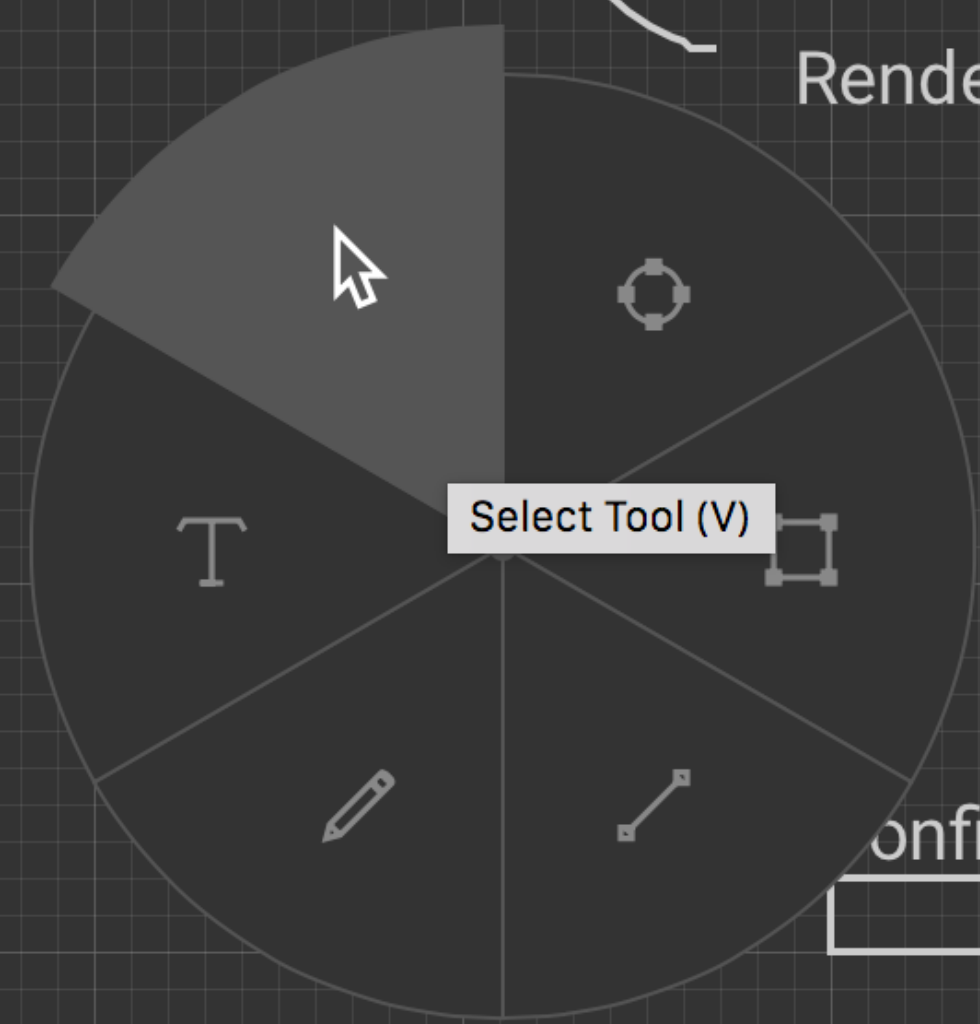
MULTI-VALUED



Render UI

Server response

PRECURSORAPP.COM



ΔετáΞčr.πt

CLOJURESCRIPT 1 YEAR

JS 29 RELEASES

CLOJURE 4 CONTRIBUTORS

JVM 7,000 LOC

ΔετáΞčr.πt

GITHUB.COM/TONSKY/DATASCRIP

@NIKITONSKY

TONSKY.ME