

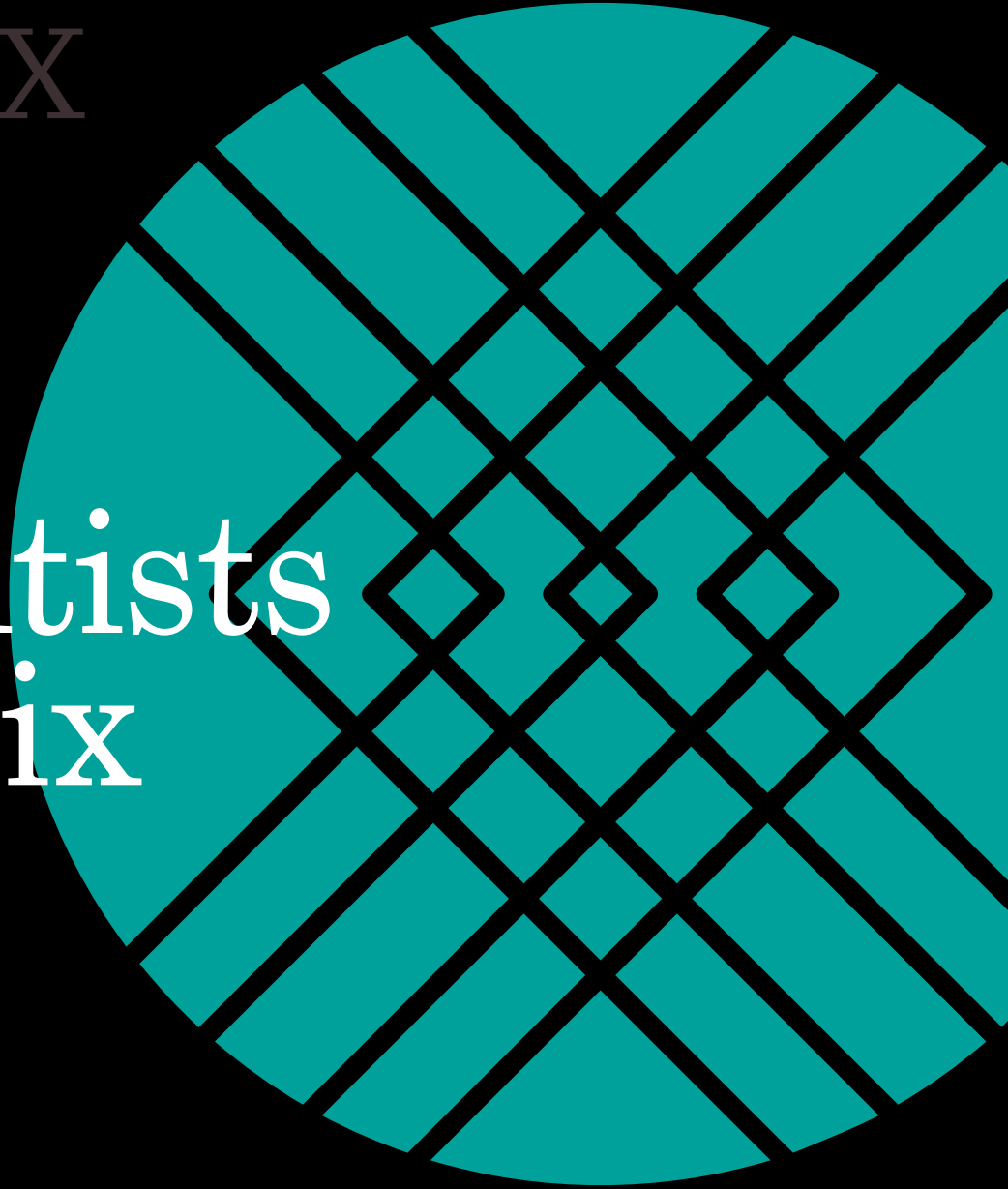
STITCH FIX

Enabling Full Stack Data Scientists at Stitch Fix

Juliet Hougland

@j_houg

April 2018

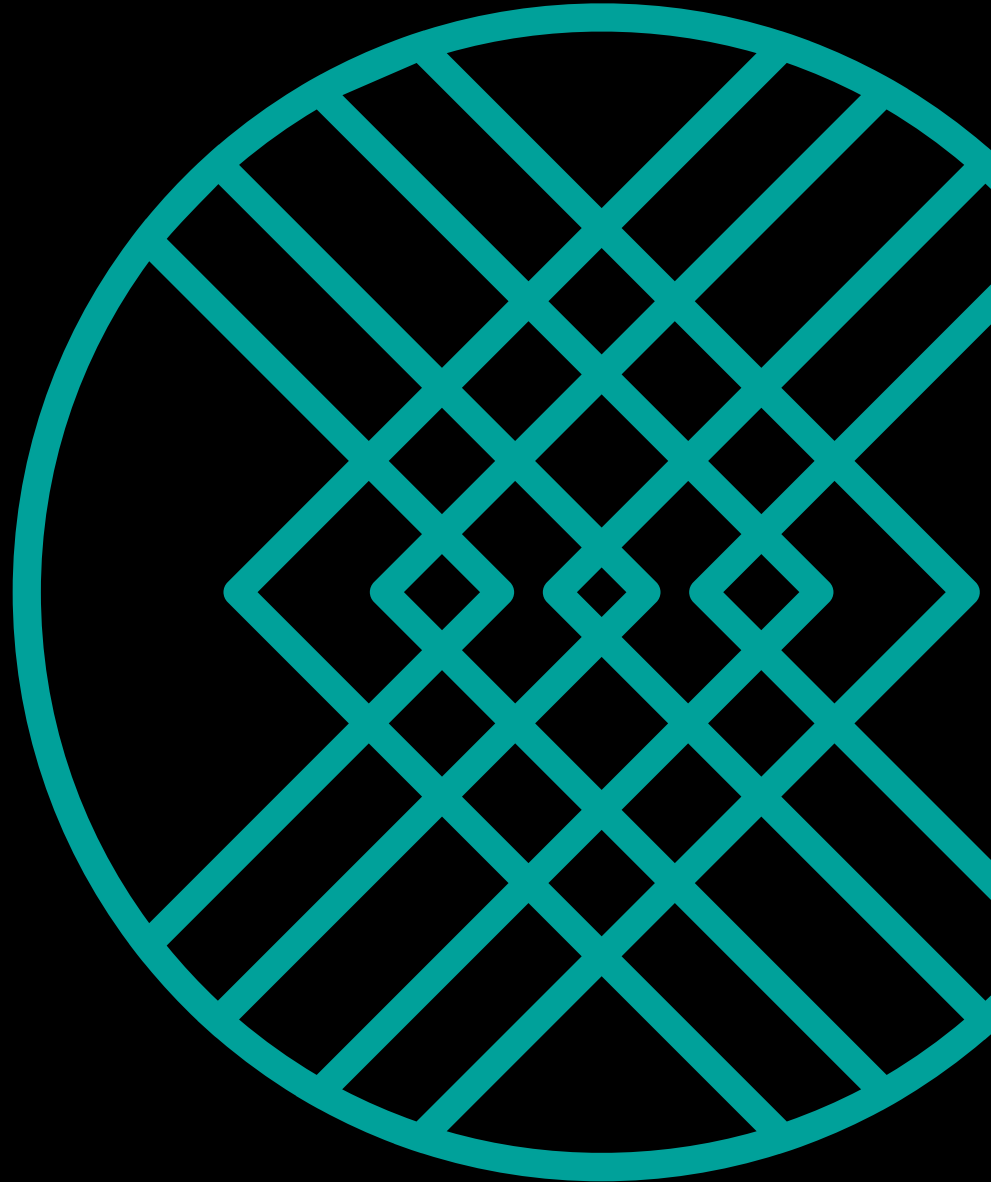


Agenda

WHAT WE DO

HOW WE OPERATE

TRANSFORMING THE WAY
DATA SCIENTISTS
DO WHAT THEY LOVE



What We Do

The Business

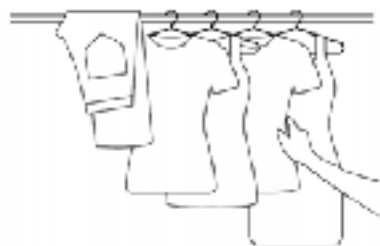
The Customer Experience

The Data





Transforming The Way People Find What They Love

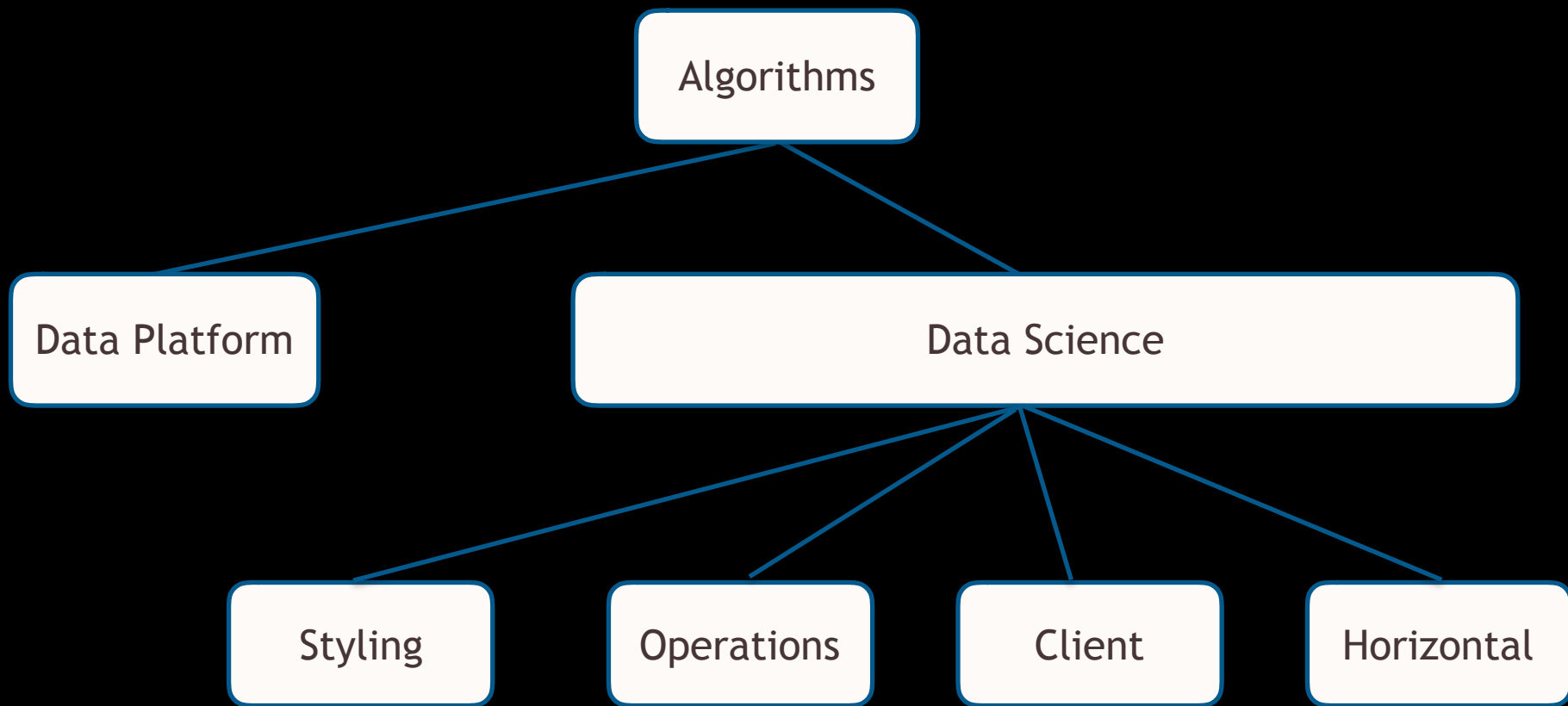


How We Operate

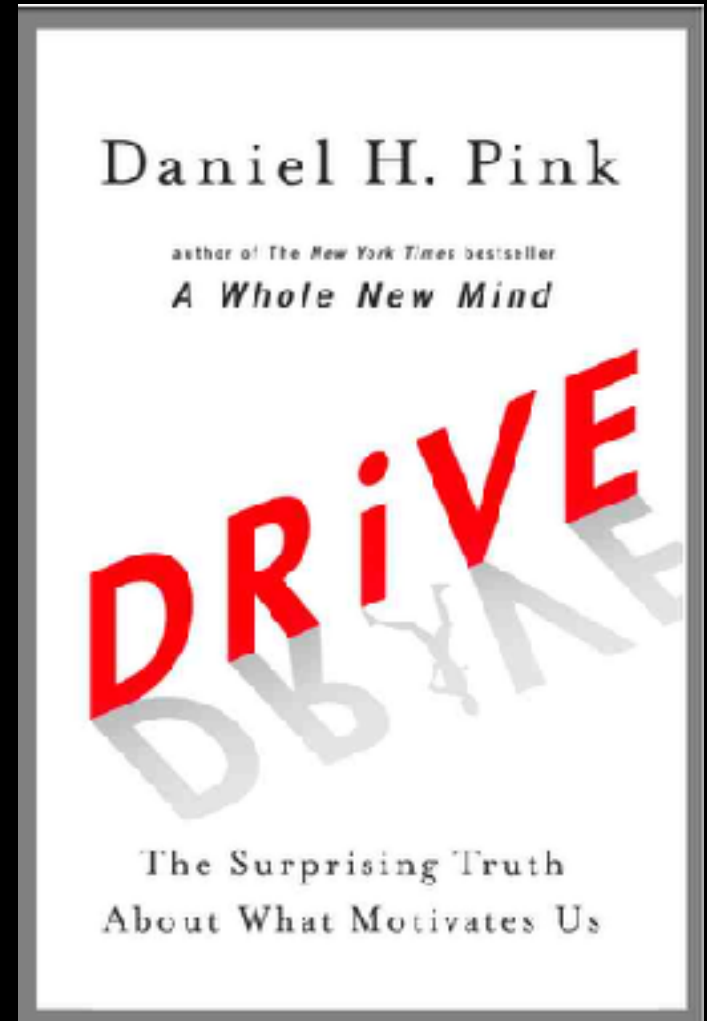
The Algorithms Org

Operating Principles

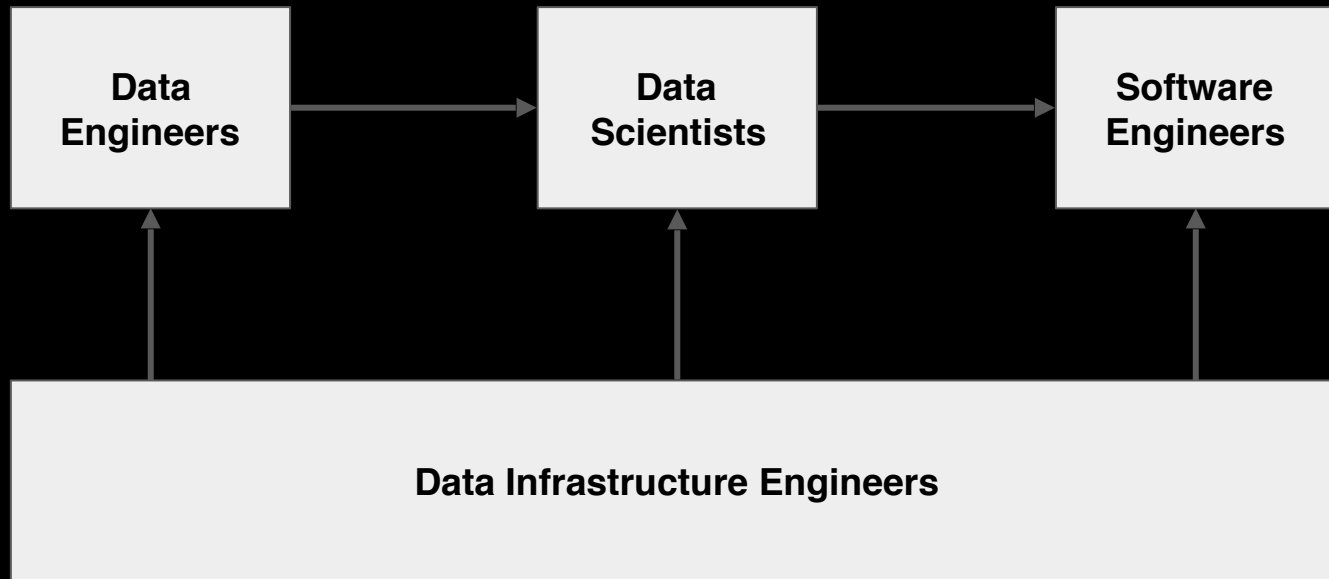
Data Platform



Autonomy & Ownership

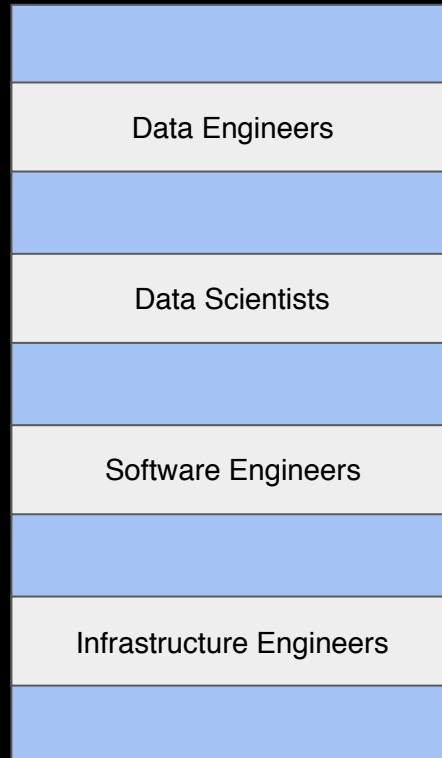


Typical Data Science Department

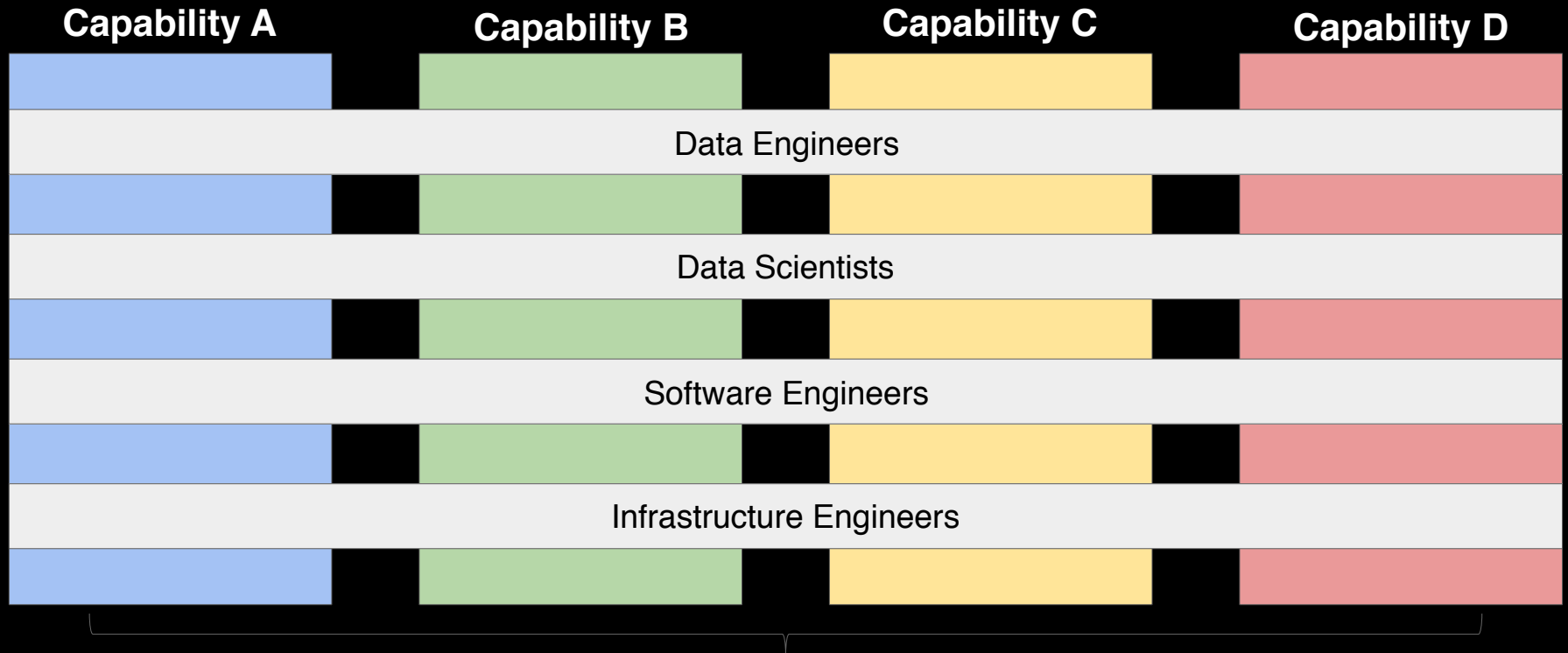


Typical Data Science Department

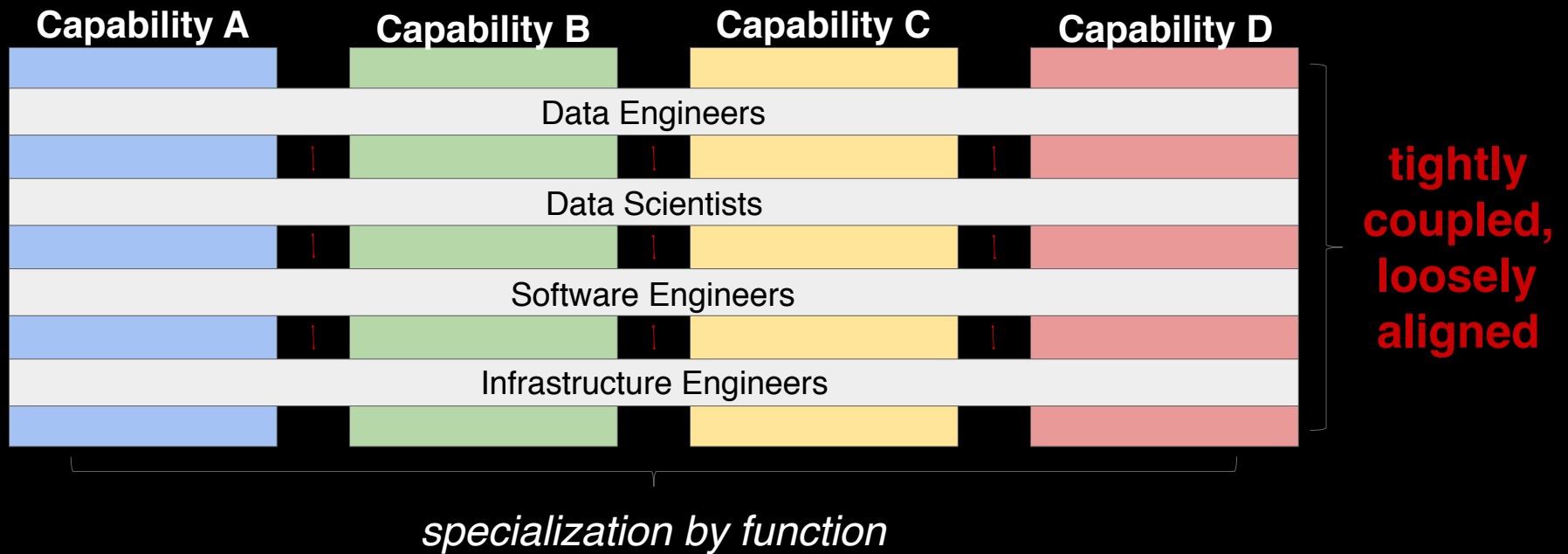
Data Driven Capability



Another View

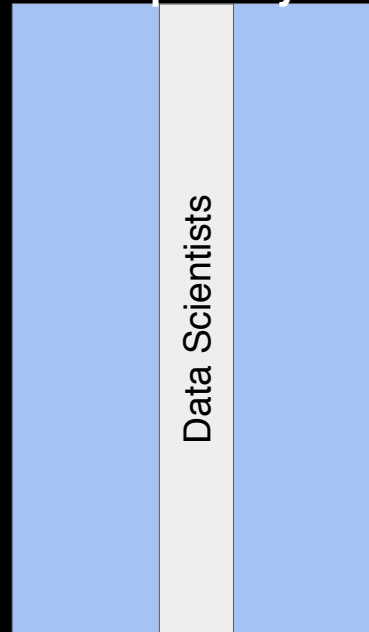


High Coordination Cost

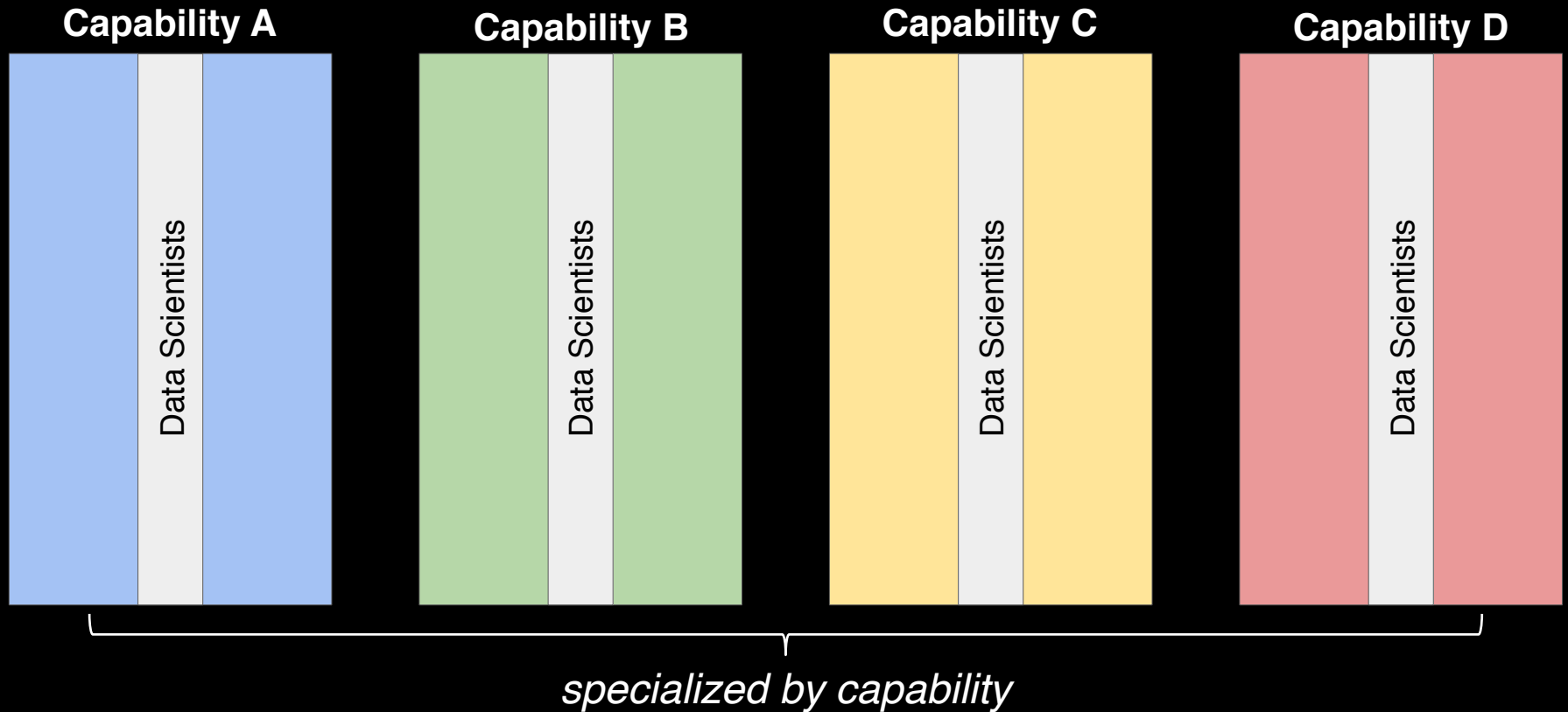


A Different Way to Organize

**Data Driven
Capability**

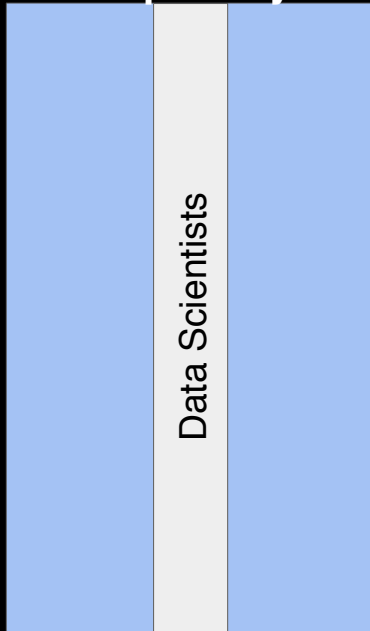


Organized by Capability



Focus on Capabilities

Data Driven Capability

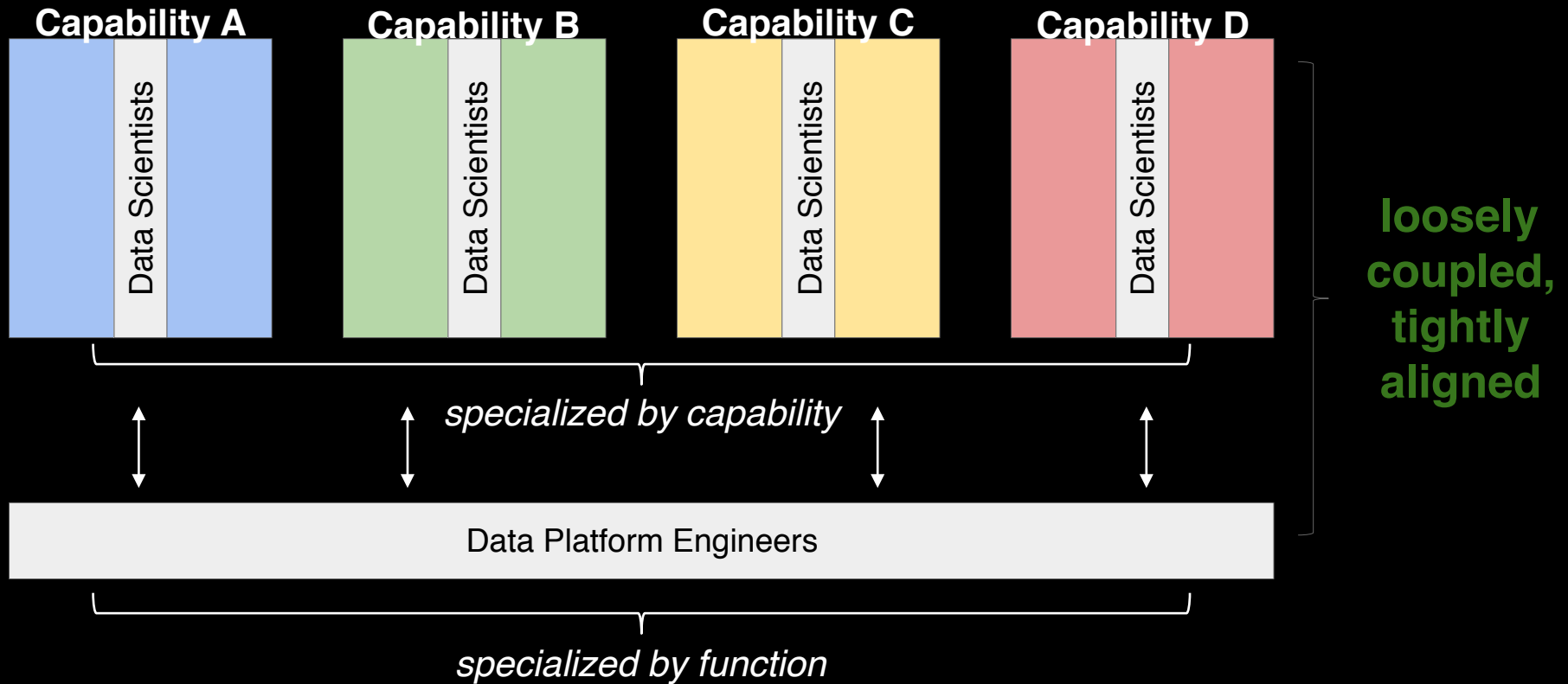


Full Stack Data Scientists Own:
Implementation
Coordination with the business
Production support (sort of)

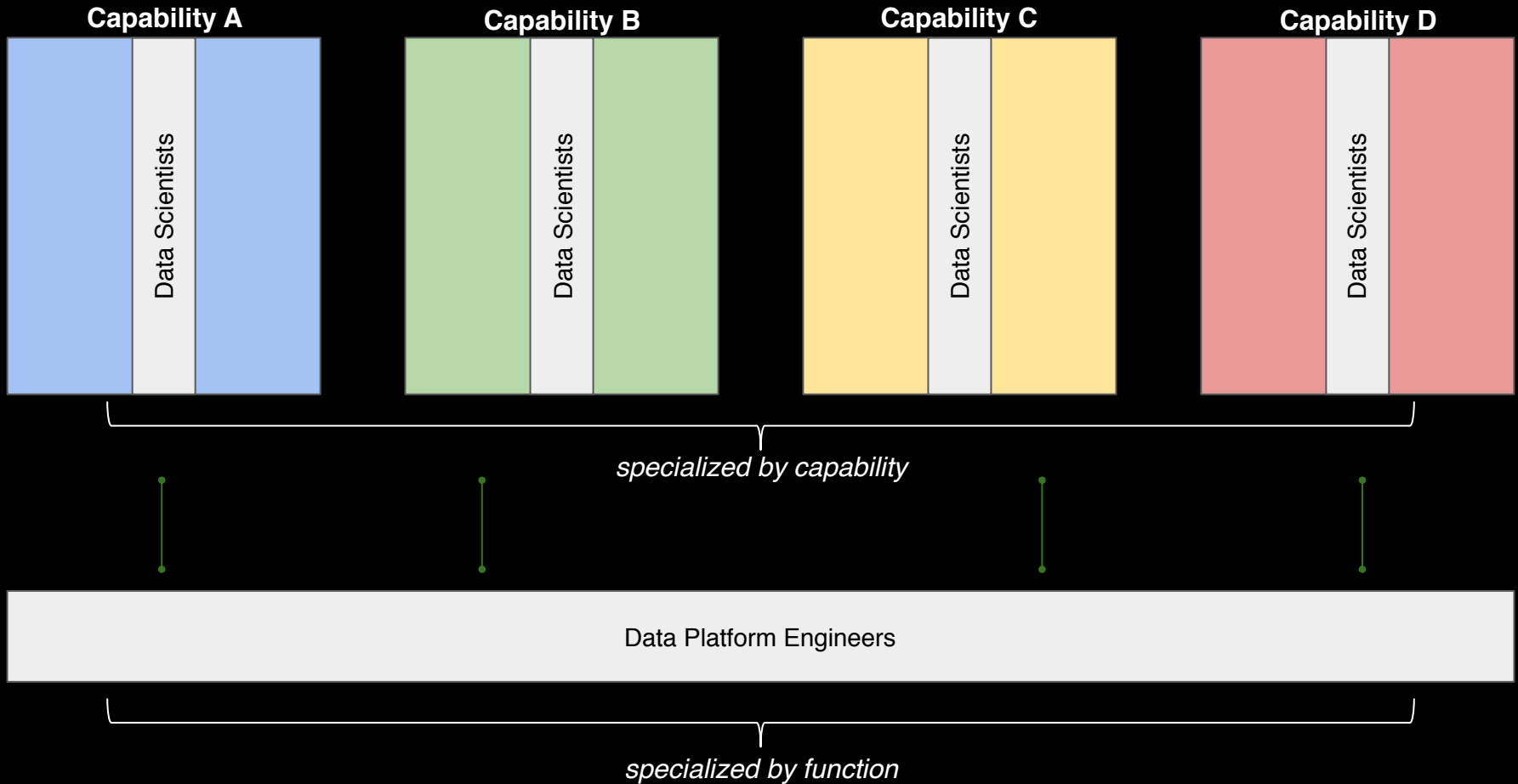


*Where did the
engineers go?*

Focus on Capabilities

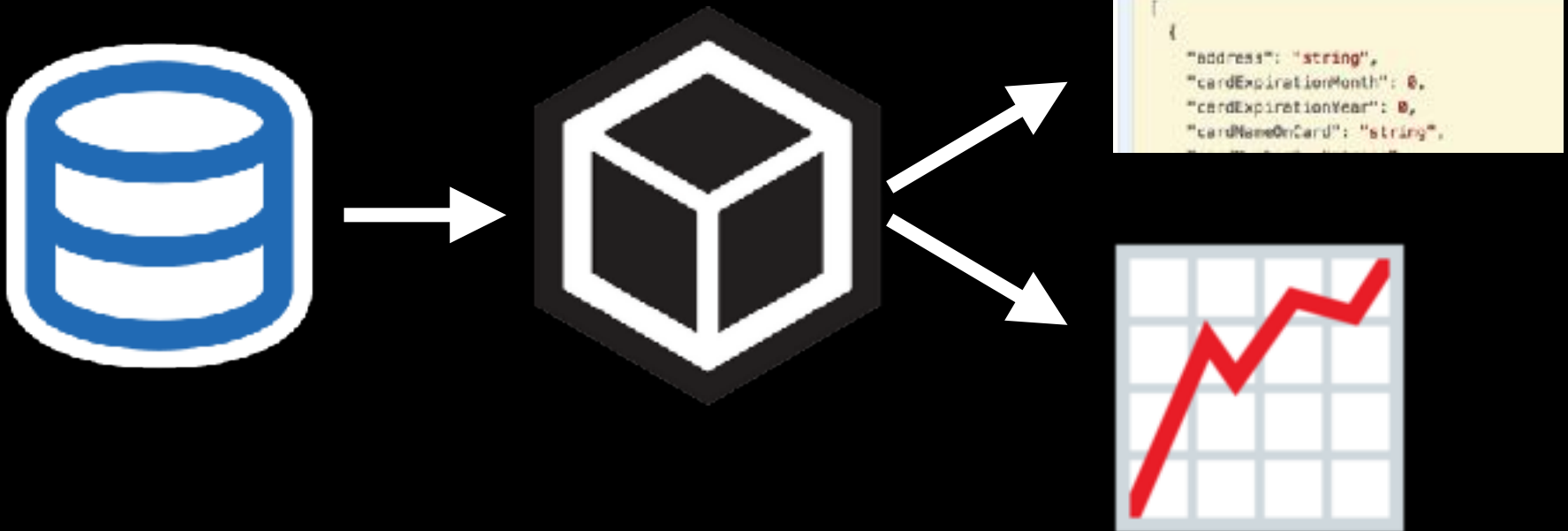


Capabilities

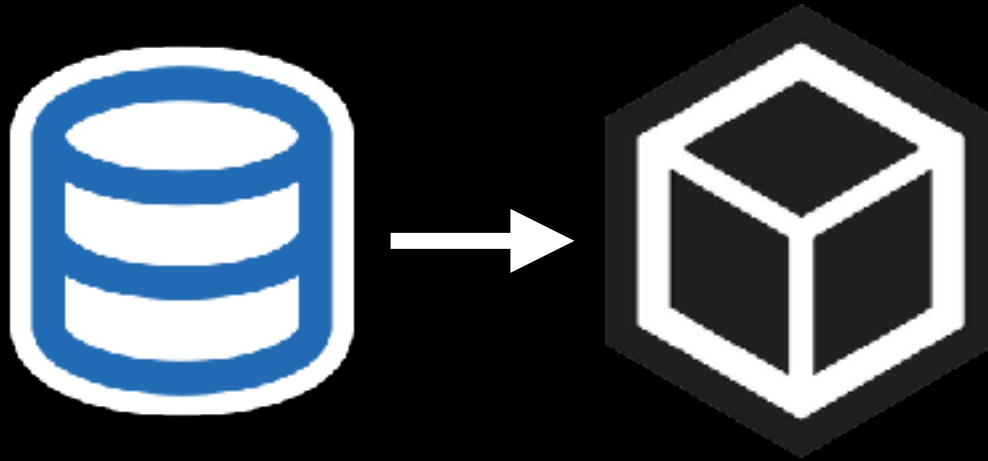


Infrastructure

Black Box Data Scientists



Data Transport



The Black Box



Analysis & Model Building



Analysis & Model Building



Flotilla > Create Task

X CANCEL SAVE

Task Definition

ALIAS

GROUP

IMAGE

IMAGE TAG

COMMAND

Analysis & Model Building



Hard:

- Reproducible
- Accurate
- Collaborative

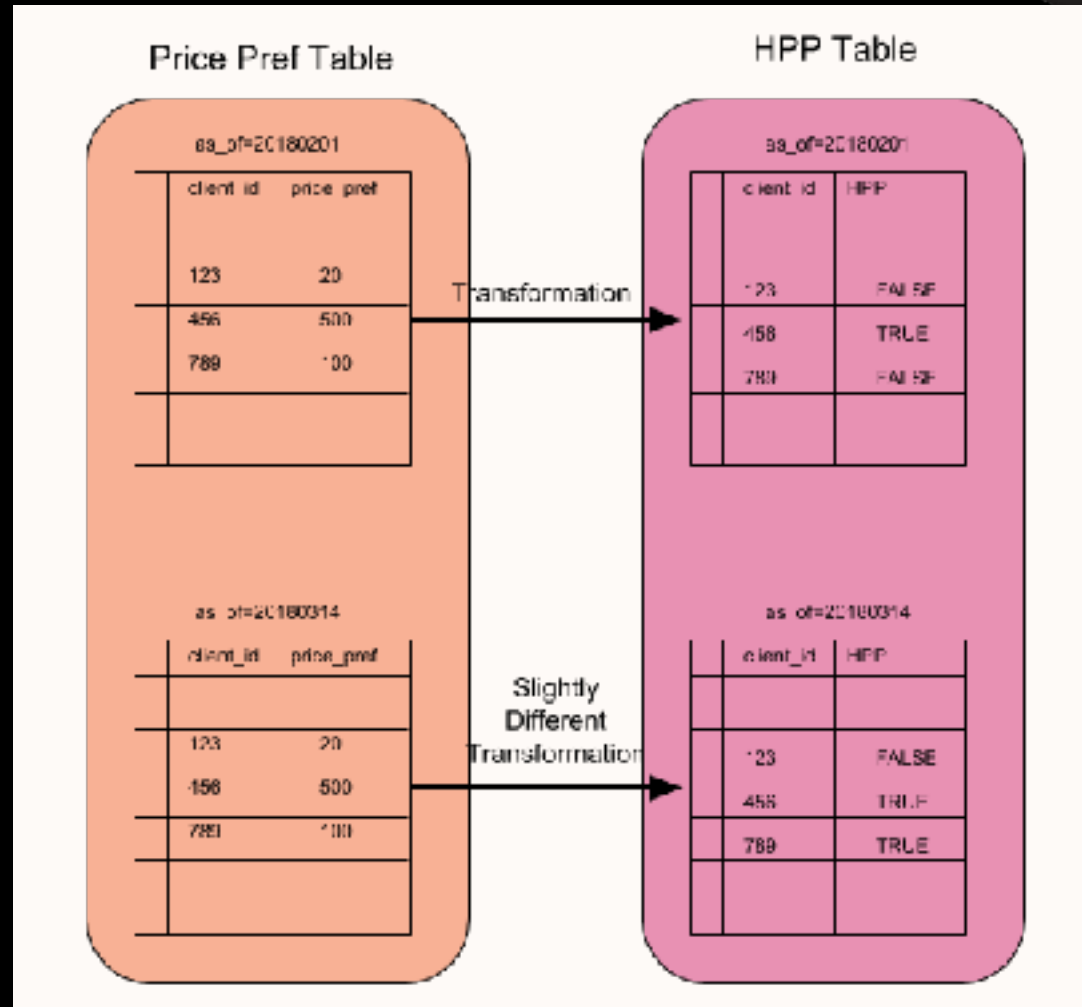
Opinionated Analysis Development —
Hilary Parker

<https://peerj.com/preprints/3210/>

Analysis & Model Building












Analysis & Model Building



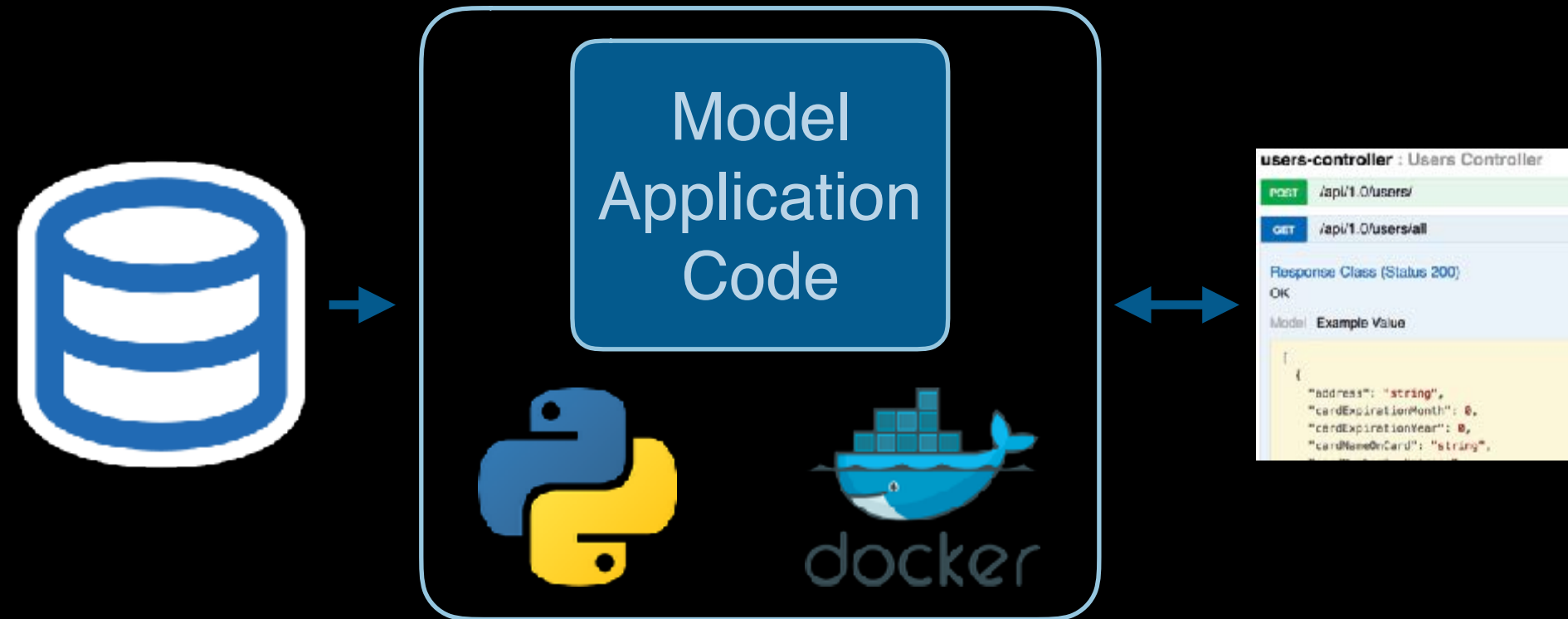
Dashboards



Daylight	Apps	filter apps	Users	+	Juliet Hougland
Actions	App Name	Shared With	Deployments	Source	
 	AA magic-mirror-raps	AA AA Reporting Data Platform Kinokan Group 1	prod staging	 sbtc update 2	
 	aa-react-felch zola-v32	AA Eng Kinokan Group 1	prod staging	 sbtc update 2	
 	aa-react-toolbox cola-r32	AA Kinokan Group 1	prod staging	 sbtc update 2	



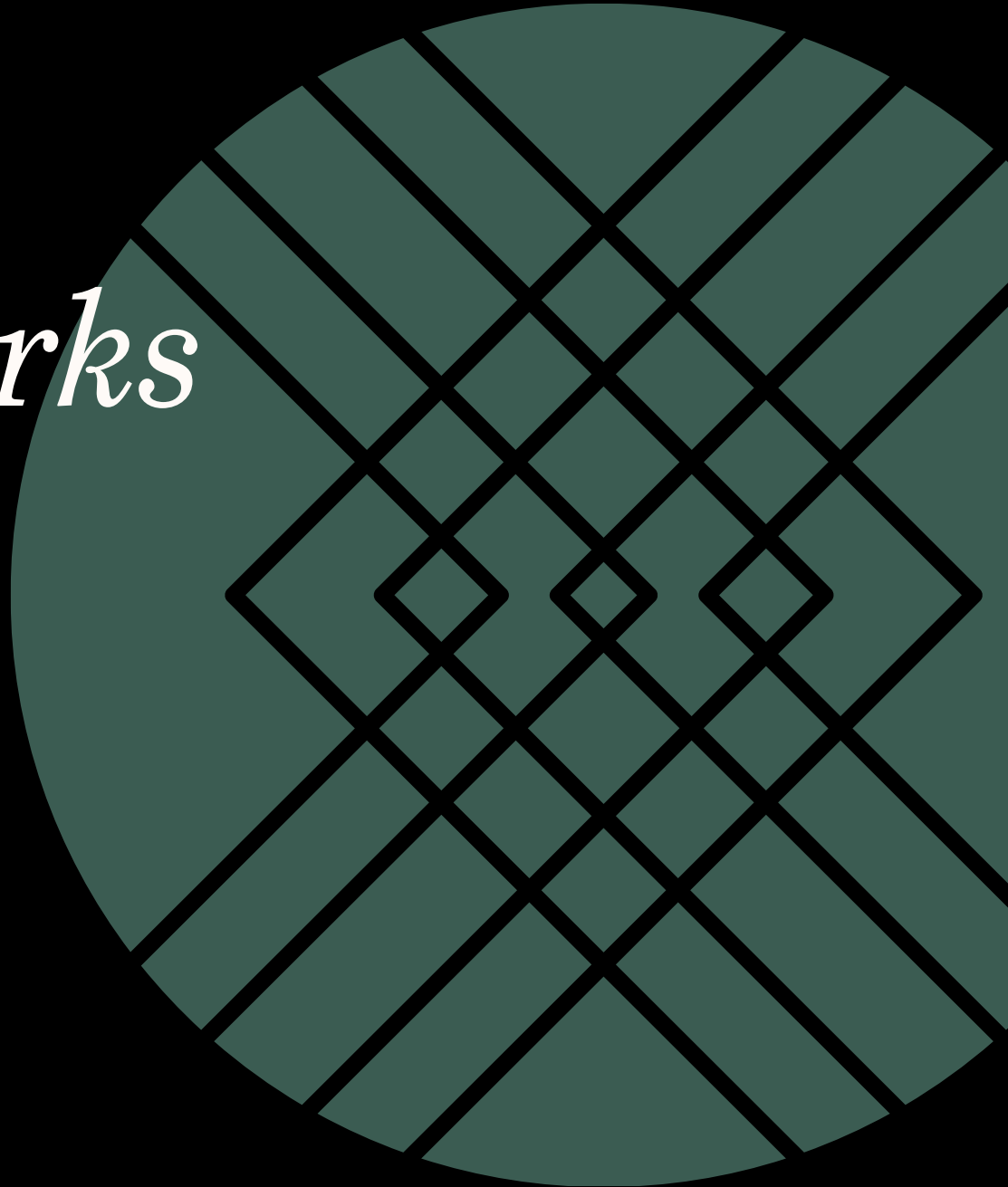
Services



Services



*What works
well?*



*What are the
challenges?*

Thanks!





*Interested in
what you heard?
We are hiring!*

Questions?

