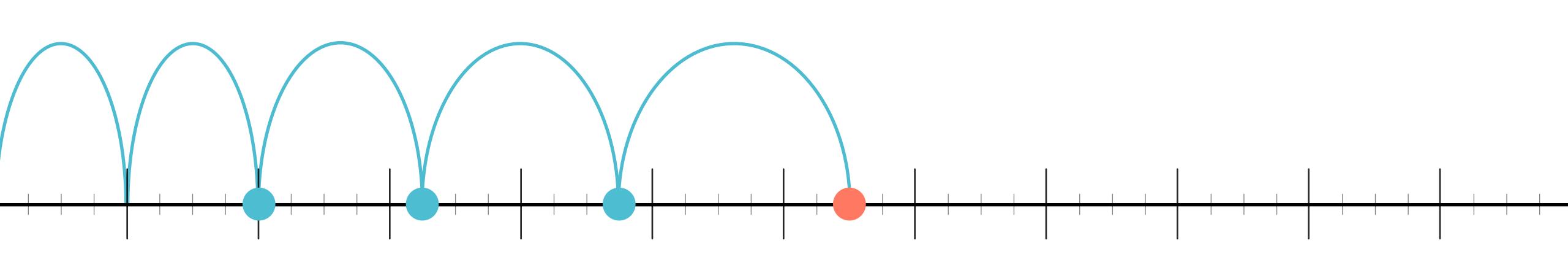
YOUR ORGANIZATION IS KILLING YOUR SOFTWARE

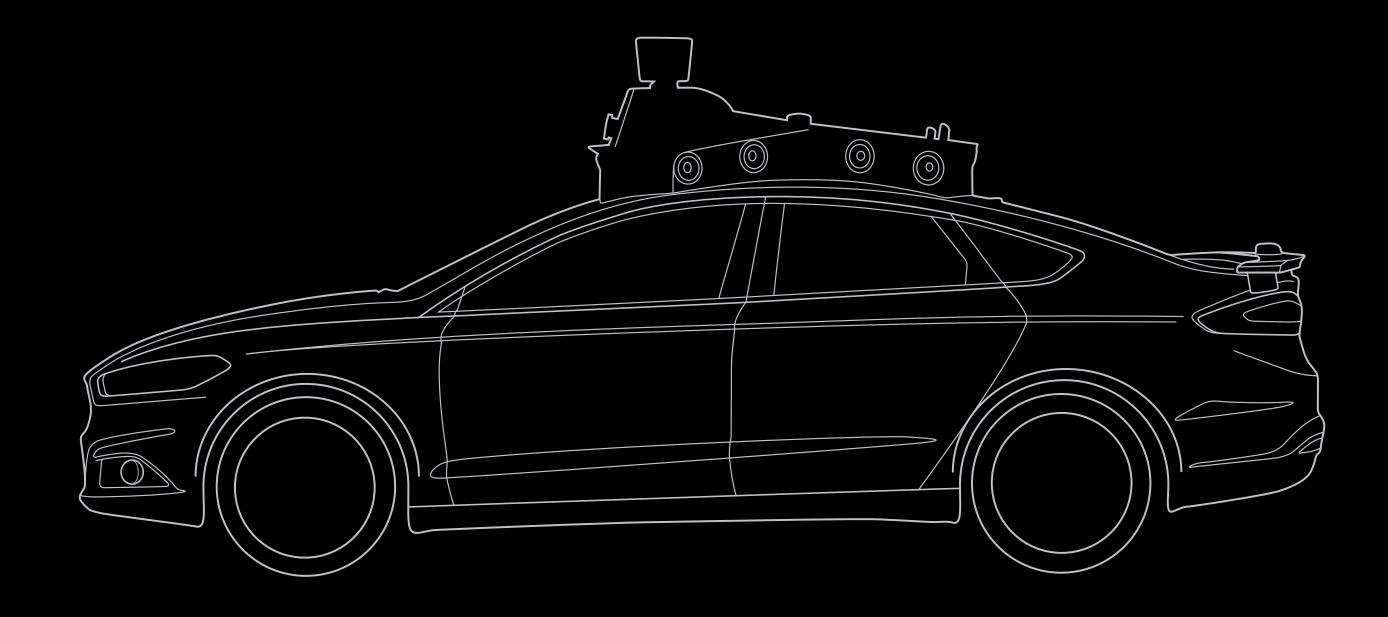
Raffi Krikorian @raffi & raffi.krikorian@gmaill.com



Speed



UBER



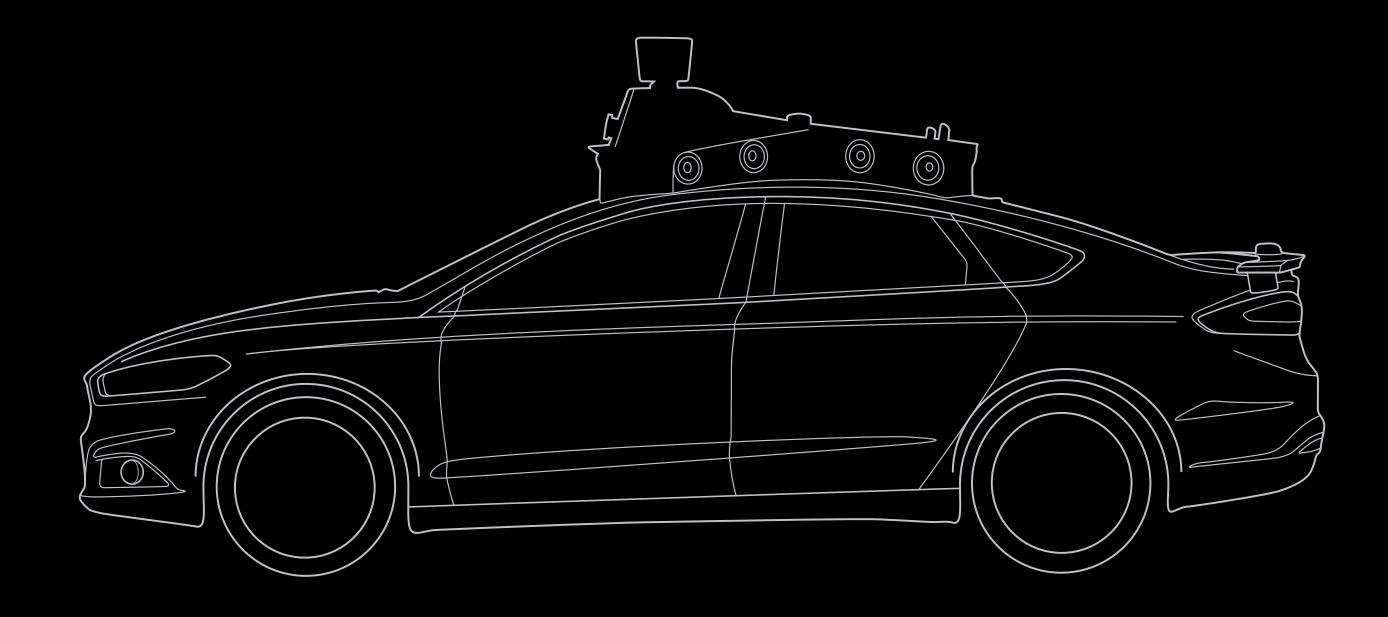
Mapping

Safety

Advanced Technologies Center

Autonomy

UBER

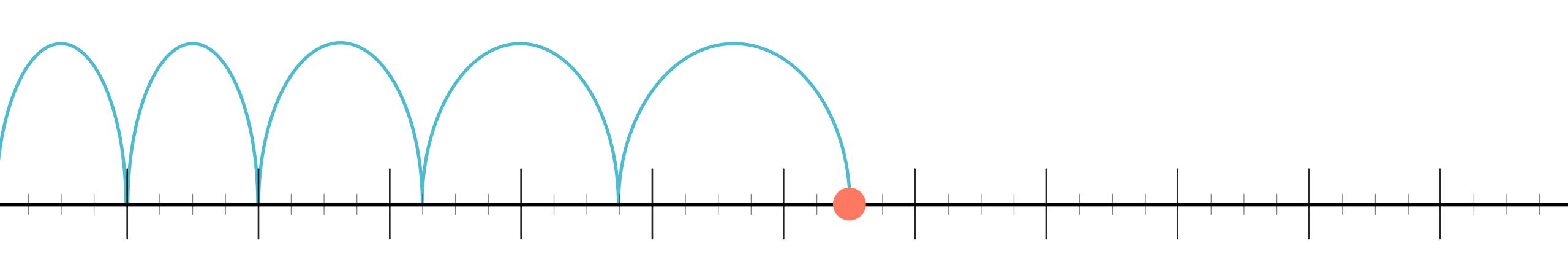


Mapping

Safety

Advanced Technologies Center

Autonomy



Speed

We're programmers. Programmers are, in their hearts, architects, and the first thing they want to do when they get to a site is to bulldoze the place flat and build something grand.
We're not excited by incremental renovation: tinkering, improving, planting flower beds.

Joel Spolsky

STORAGE & RETRIEVAL



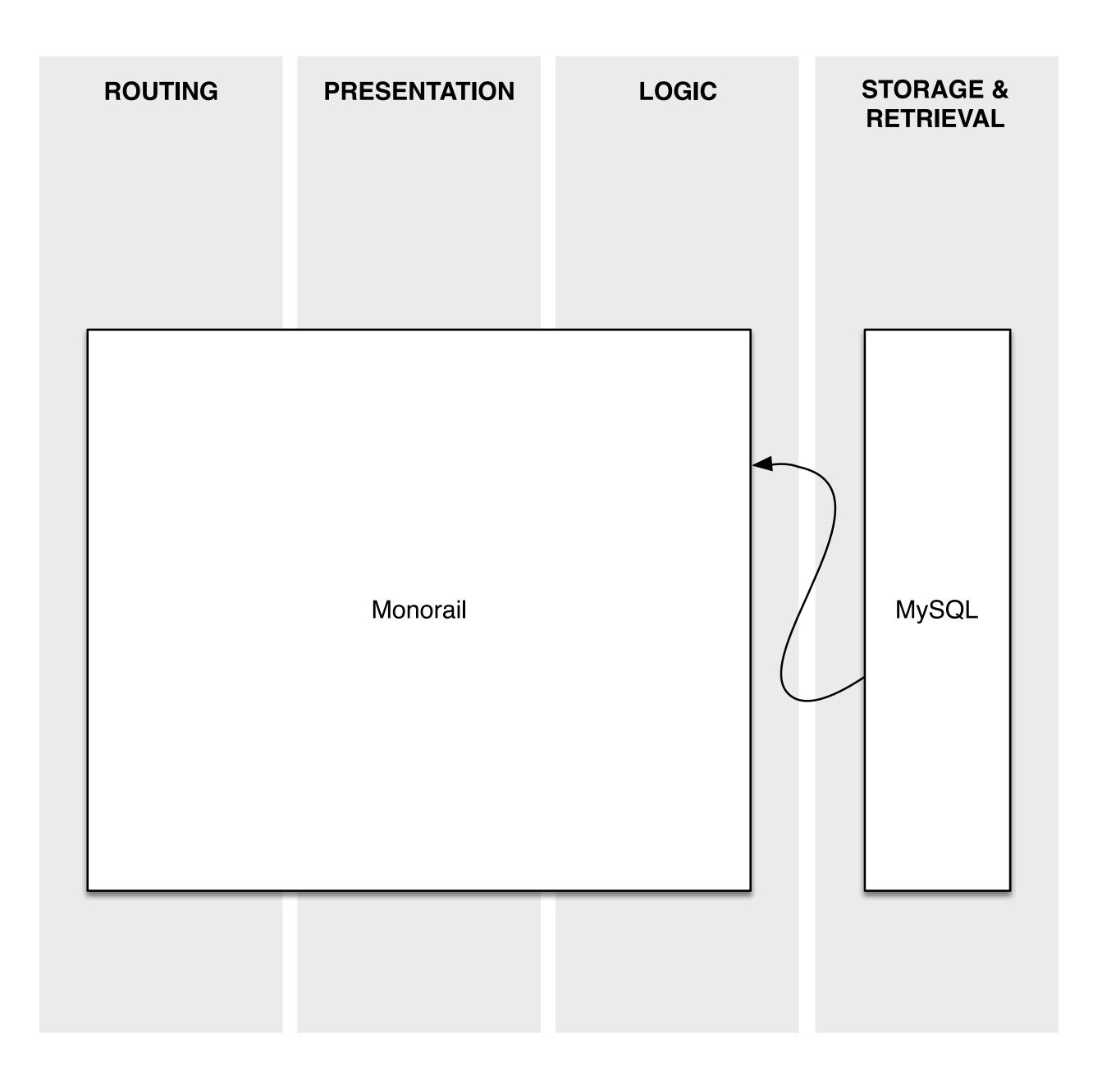
PRESENTATIO

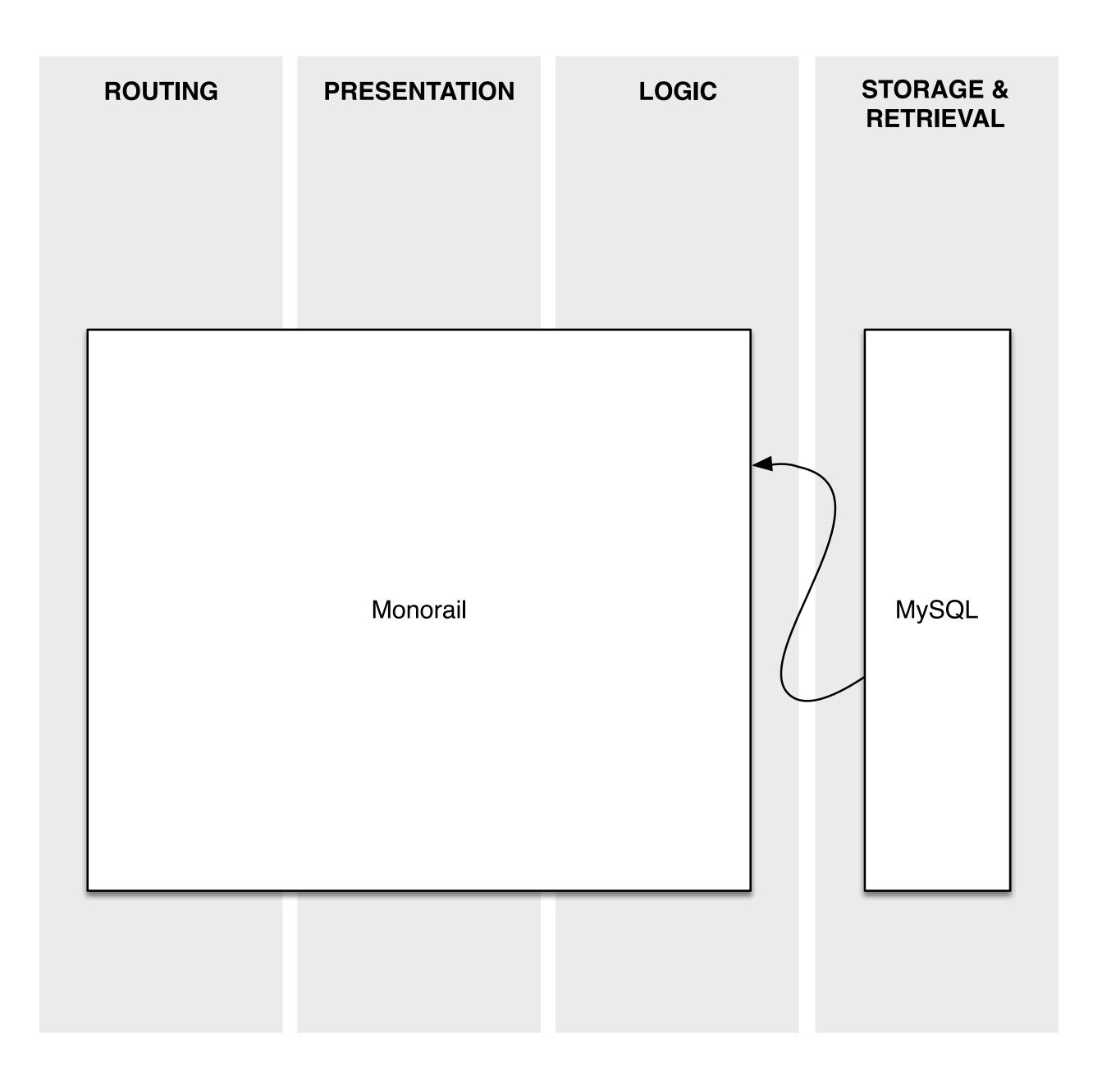
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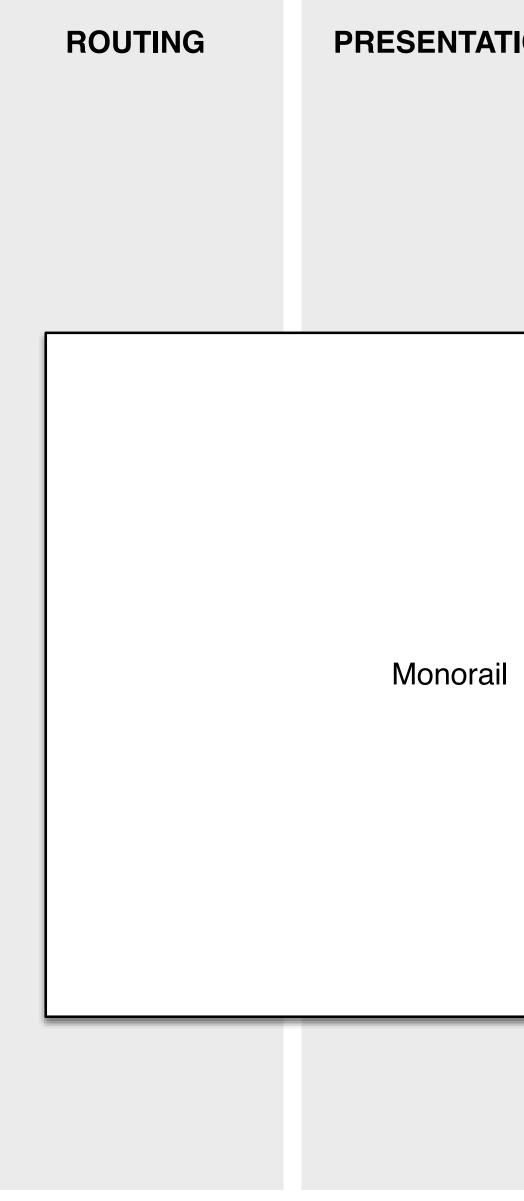
ROUTING	PRESENTATIO

	<section-header></section-header>

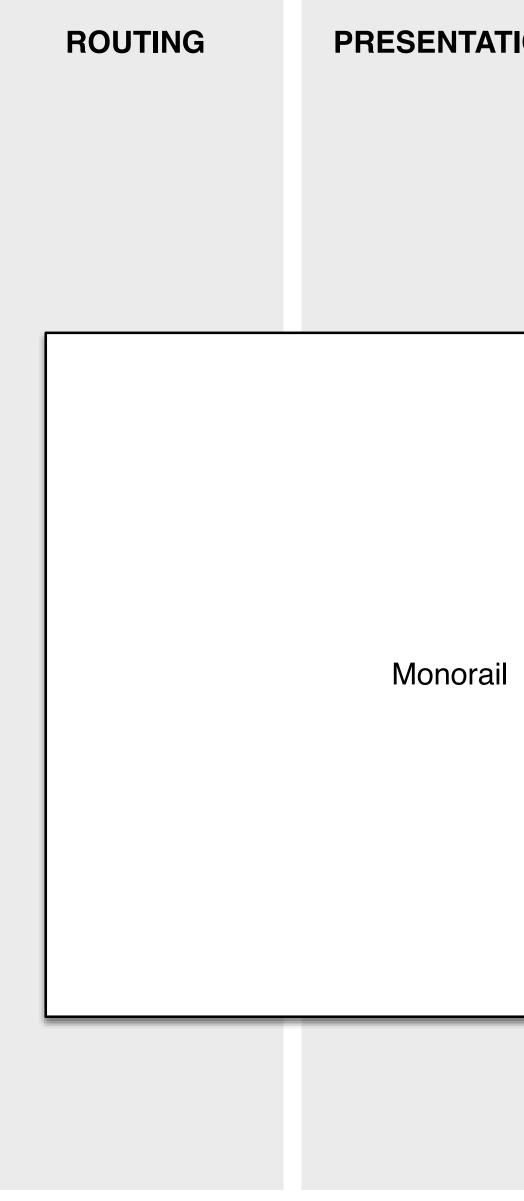
ROUTING	PRESENTATION	LOGIC	STORAGE & RETRIEVAL
			MySQL





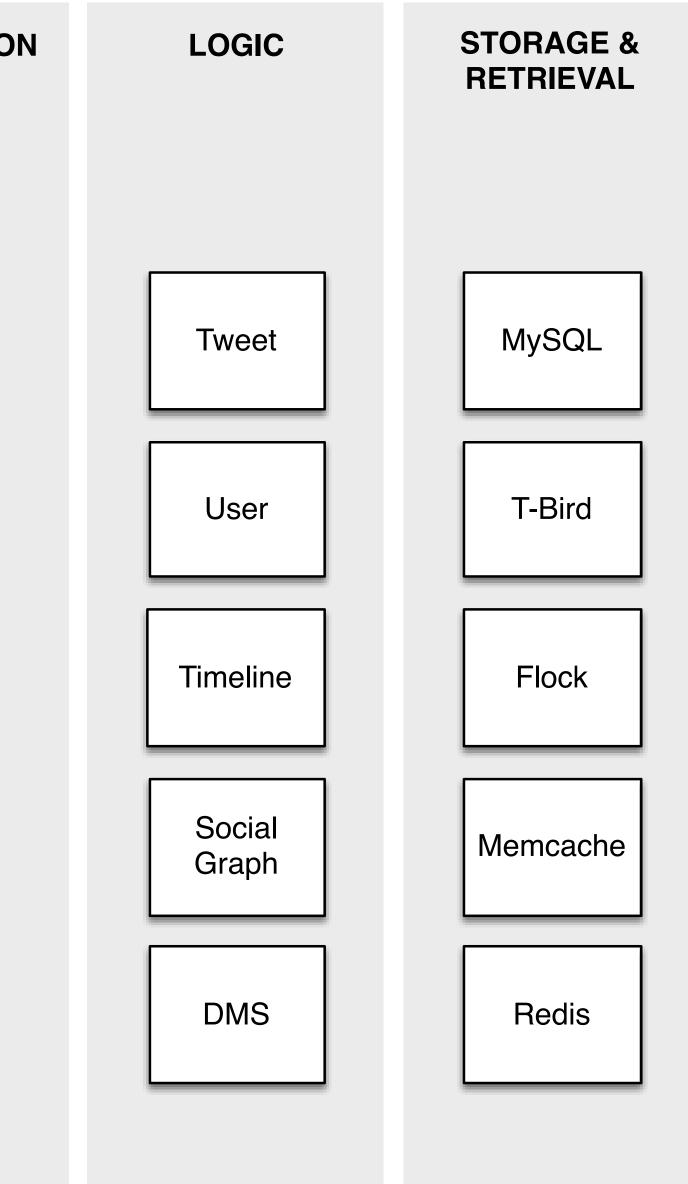


TION	LOGIC	STORAGE & RETRIEVAL
		MySQL
		T-Bird
		Flock

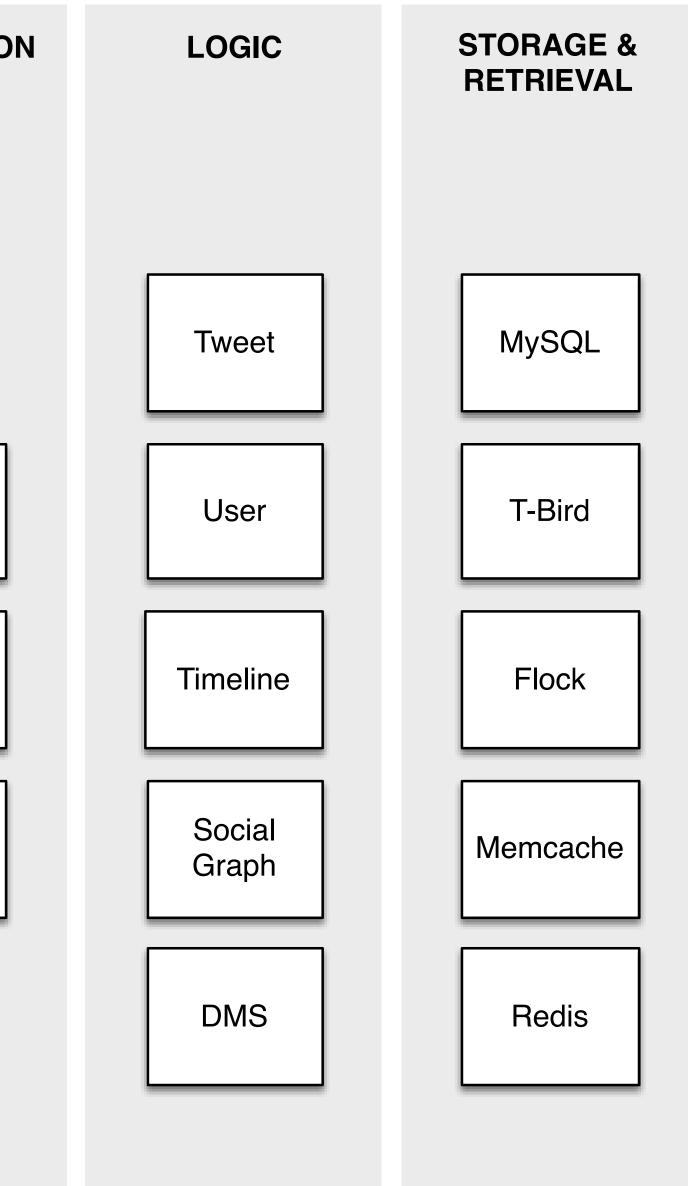


'ION	LOGIC	STORAGE & RETRIEVAL
		MySQL
		T-Bird
		Flock
		Memcache
		Redis

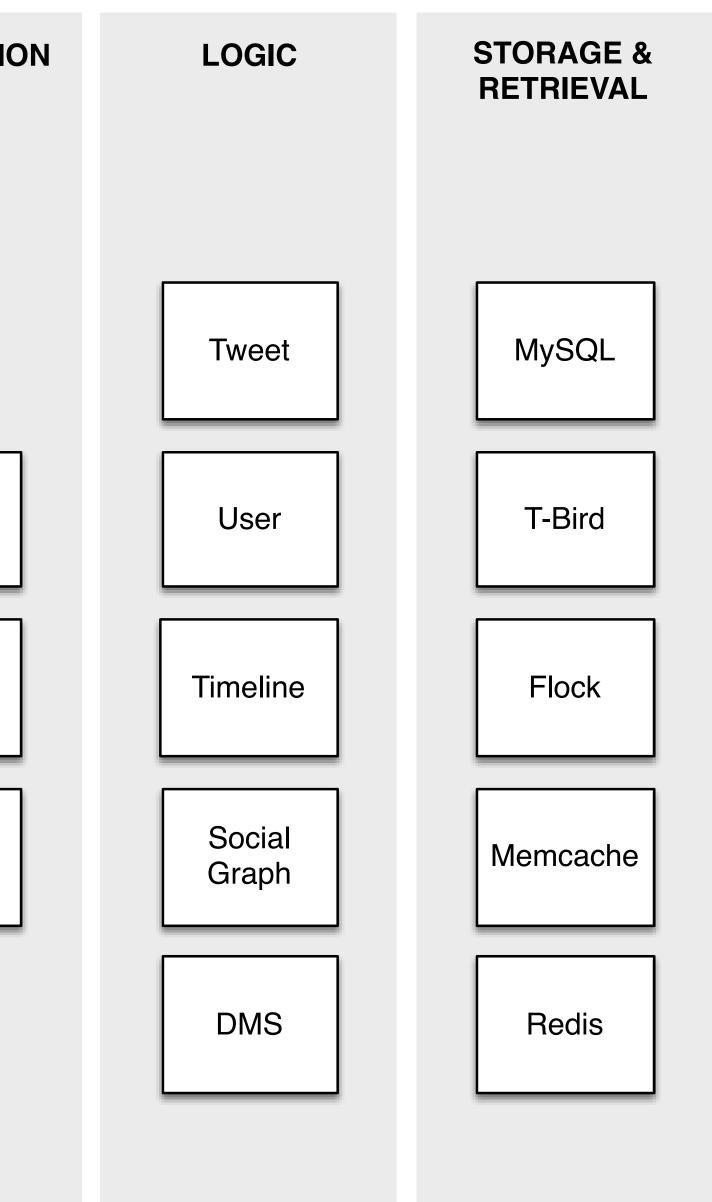
ROUTING	PRESENTATIO

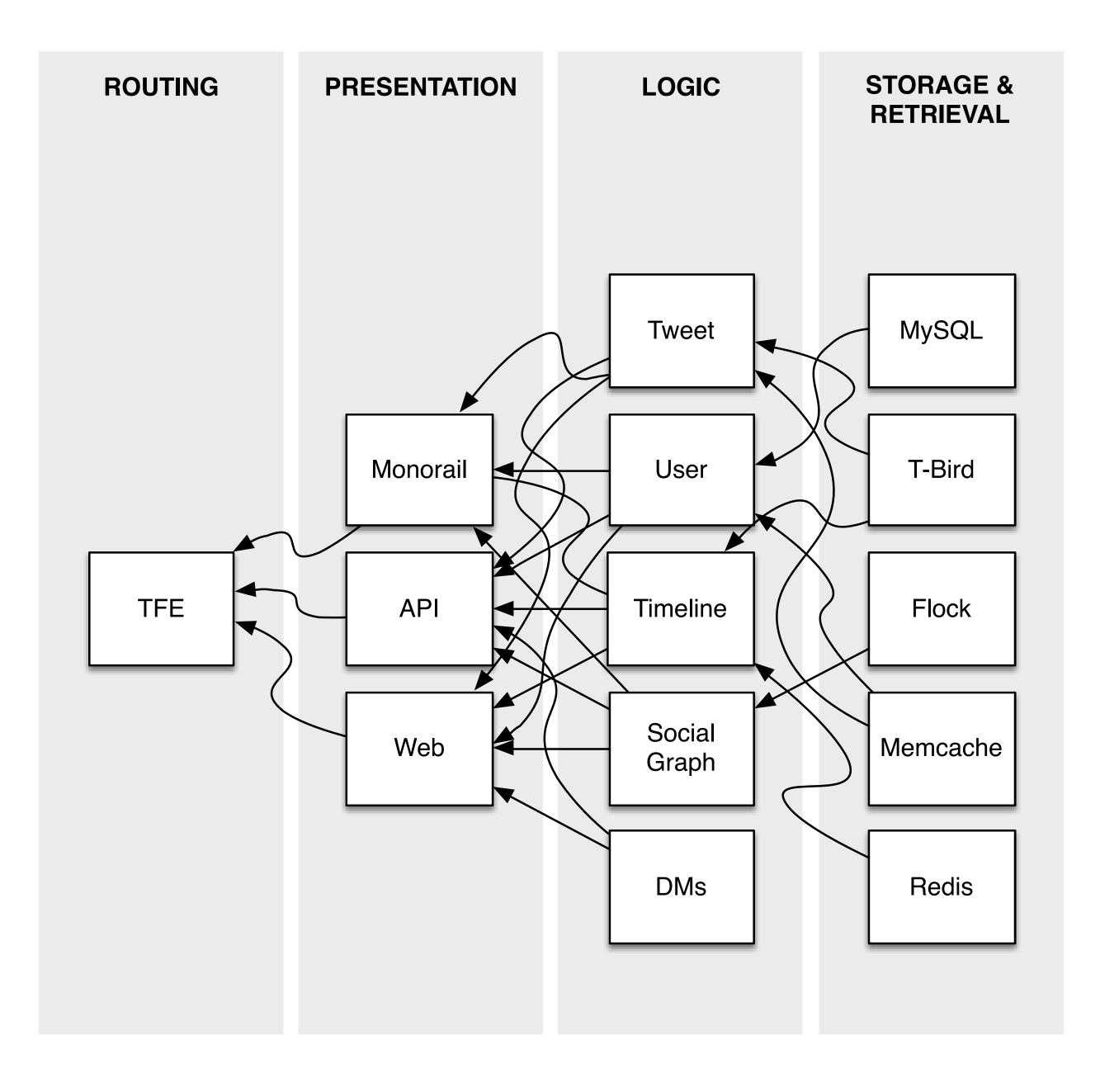


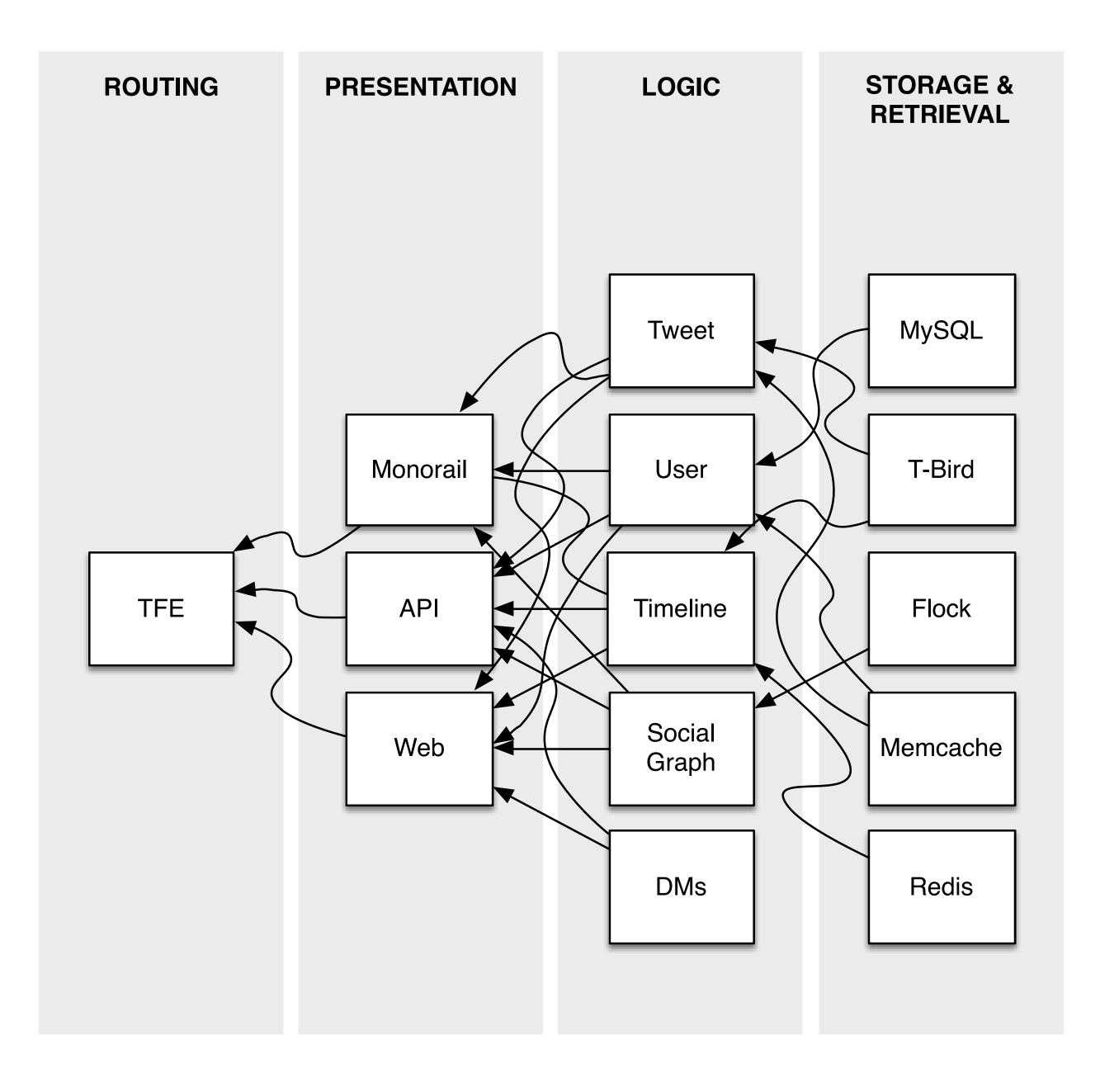
	PRESENTATIO
	Monorail
	API
	Web

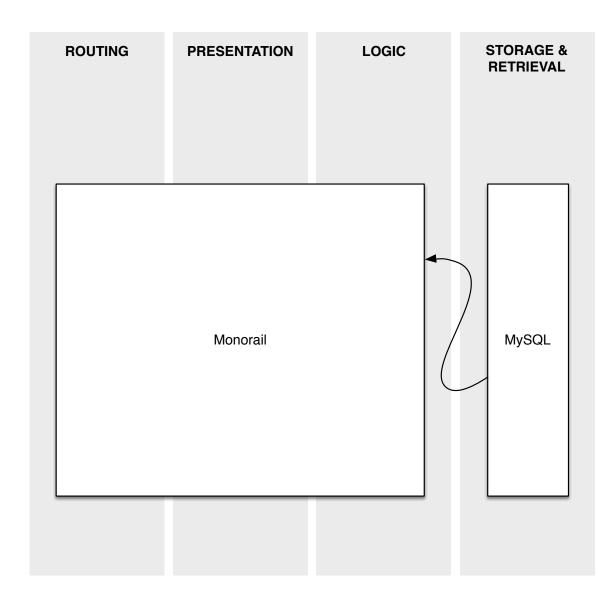


ROUTING	PRESENTATIO
TFE	Monorail API
	Web

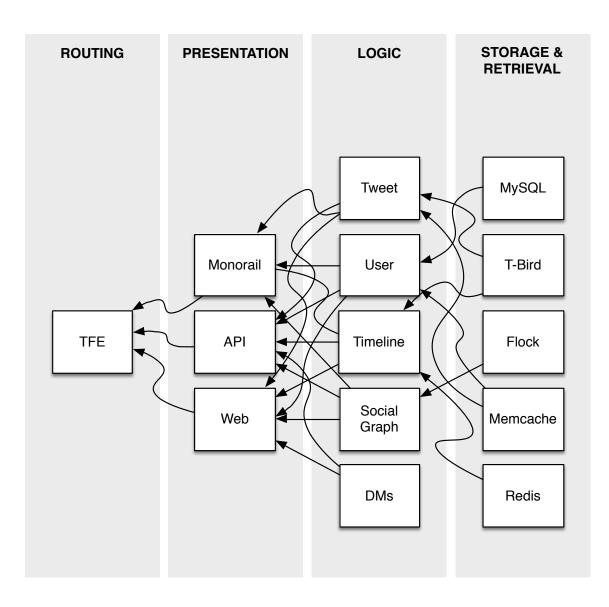








Single codebase All computational logic are in-memory Easy to scale horizontally Handled by a central operations team



Many smaller, clearly scoped services Single responsibility principle Independently managed Clear ownership for each service

Any organization that designs a system (defined more broadly here than just information systems) will inevitably produce a design whose structure is a copy of the organization's communication structure.

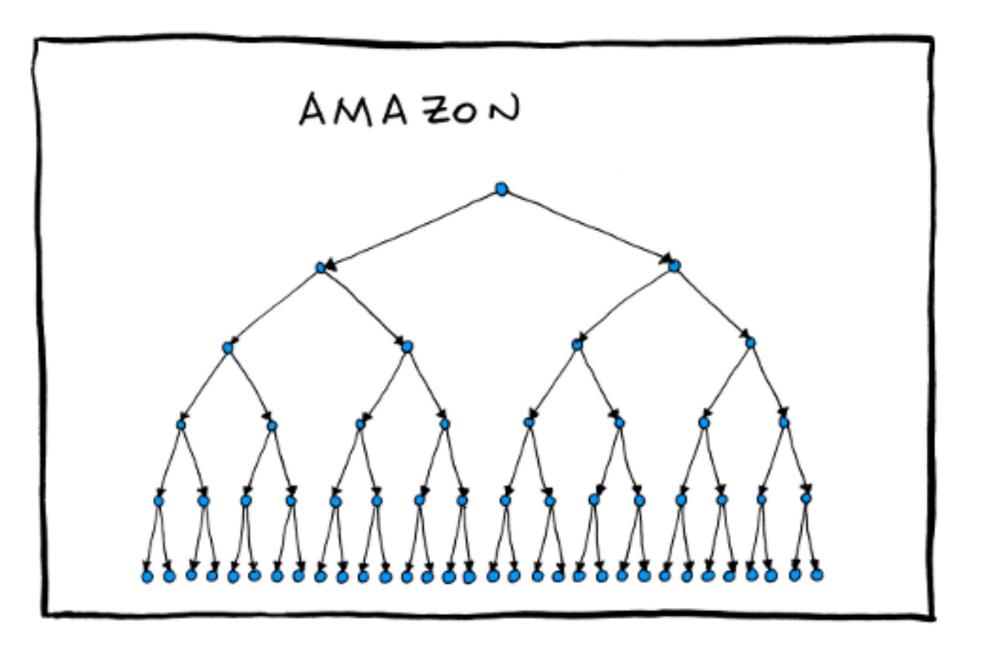
Melvin Conway

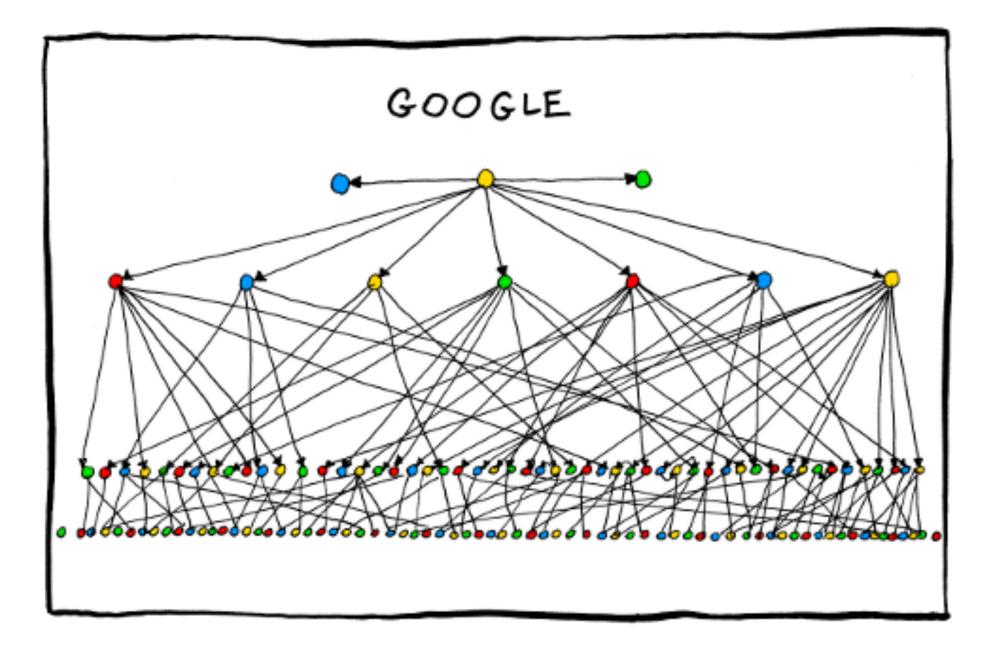
If you have four developers writing a compiler you will get a four-pass compiler.

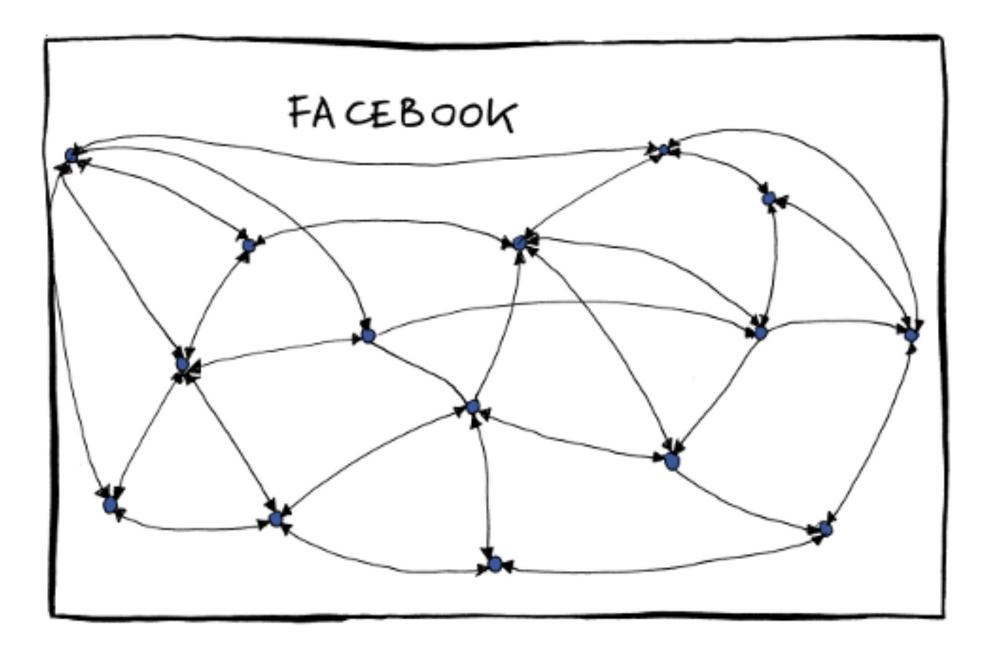
Eric Raymond

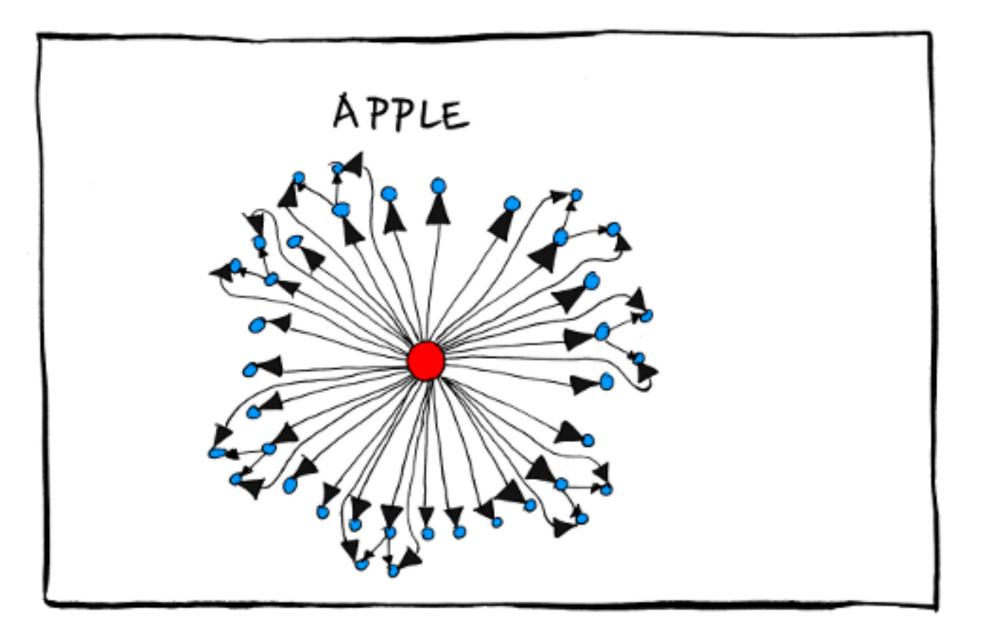
Setting up the team says more about architecture than the architecture itself.

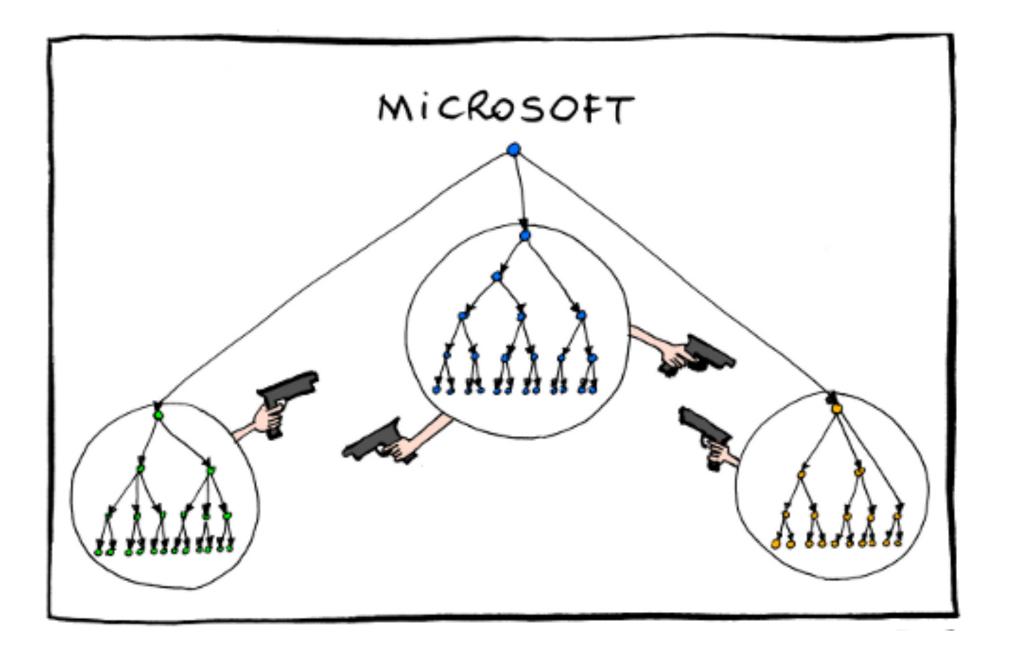
Me

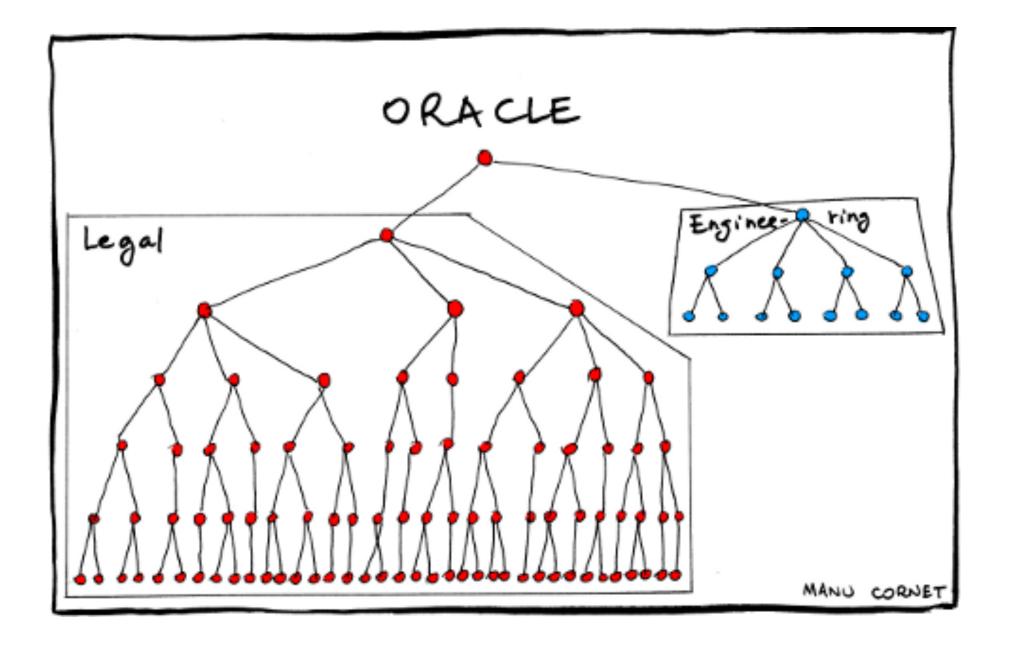


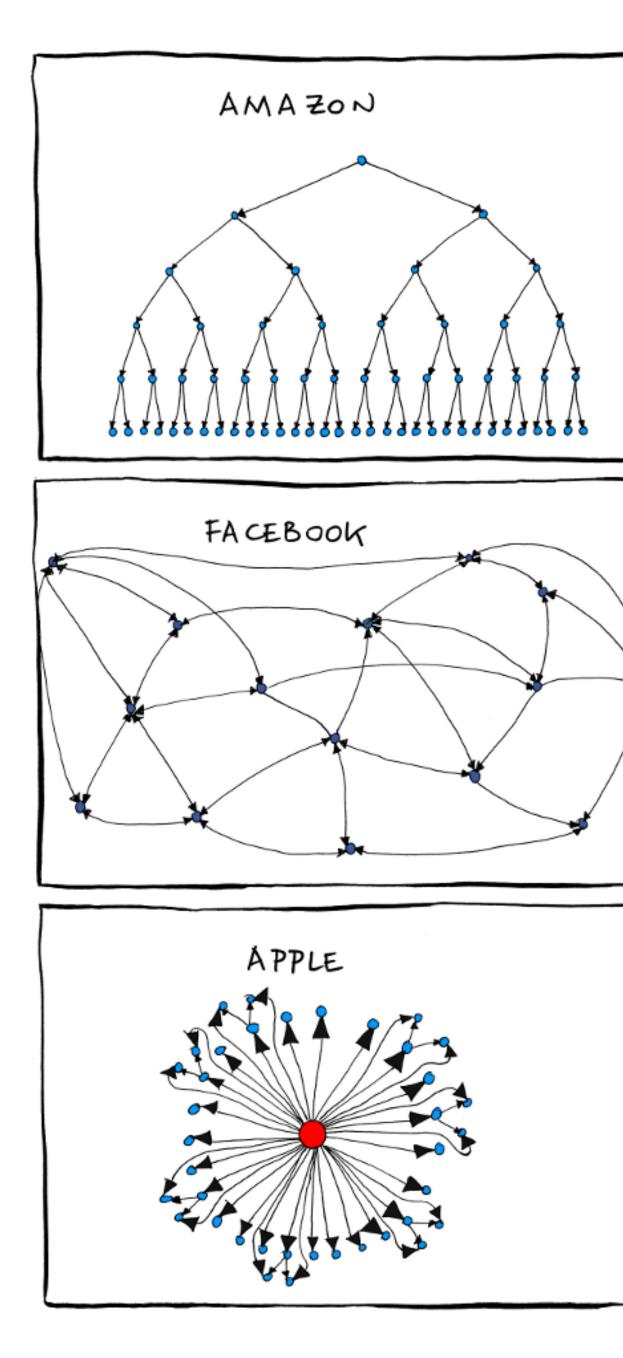


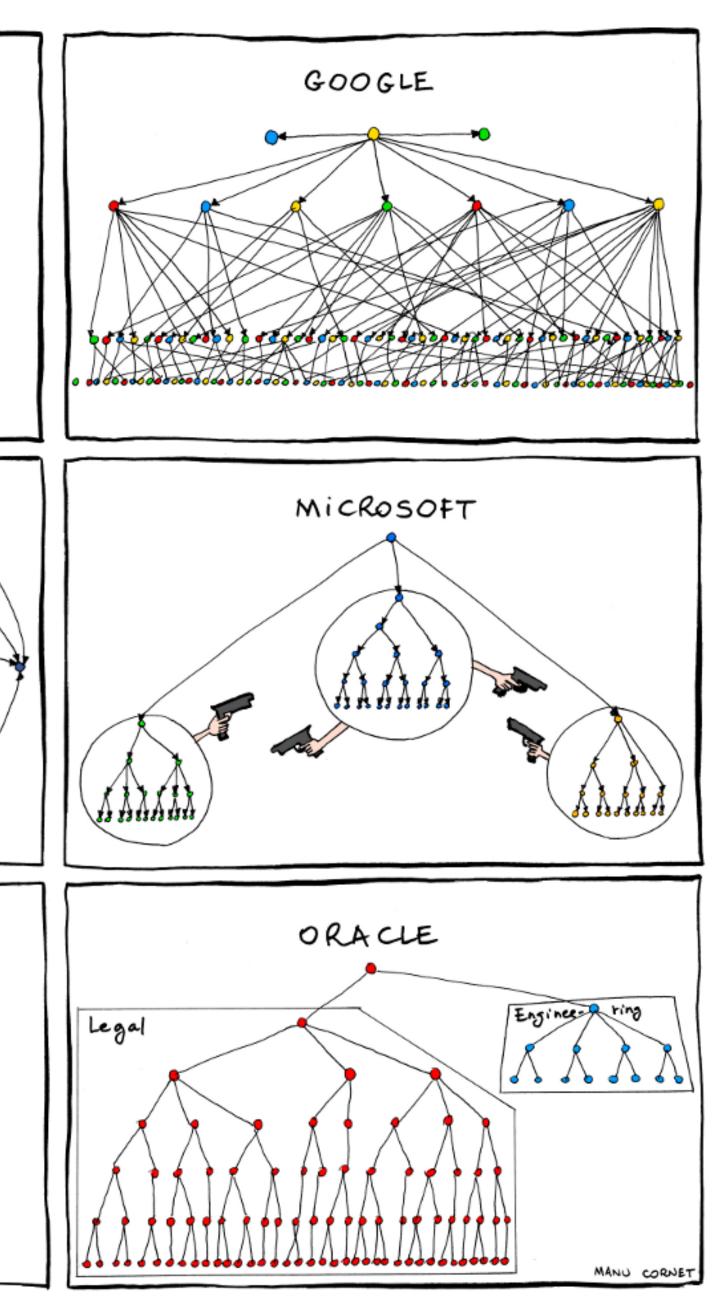


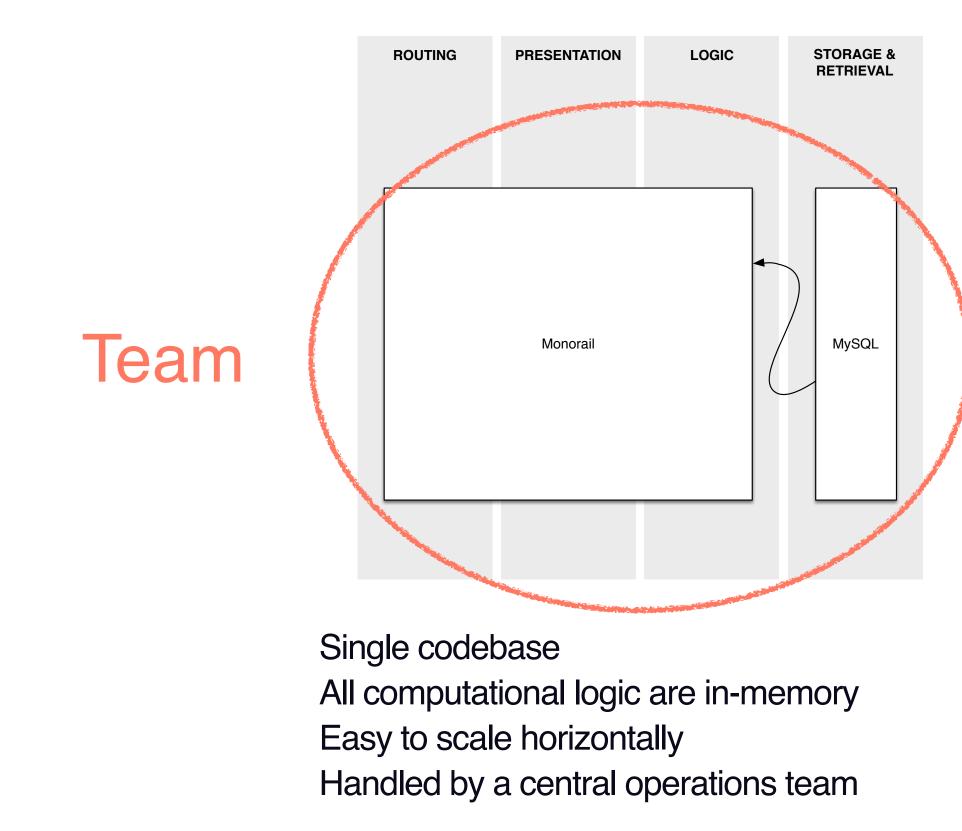


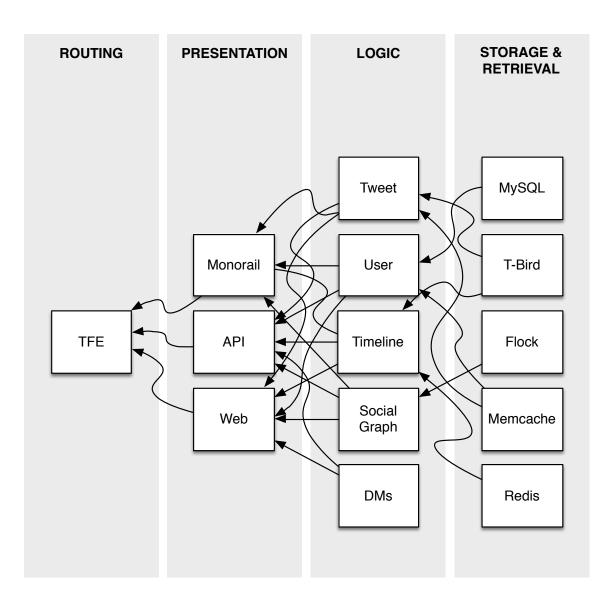




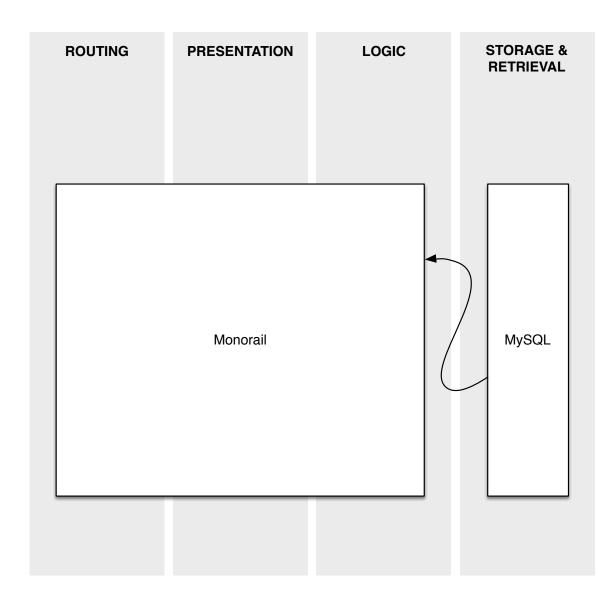




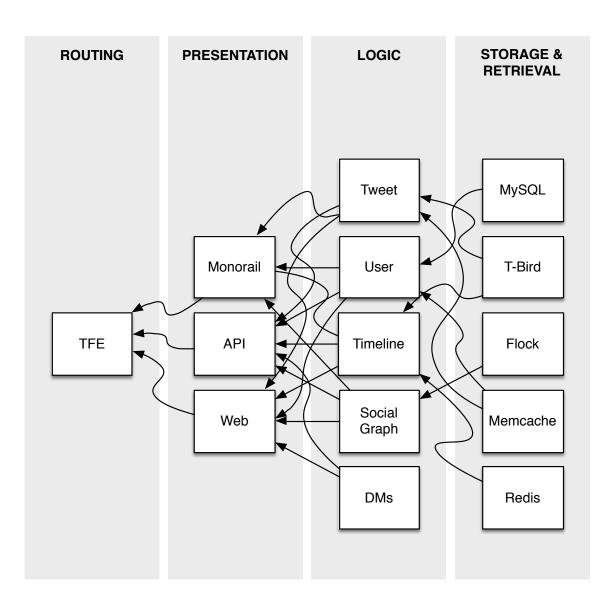




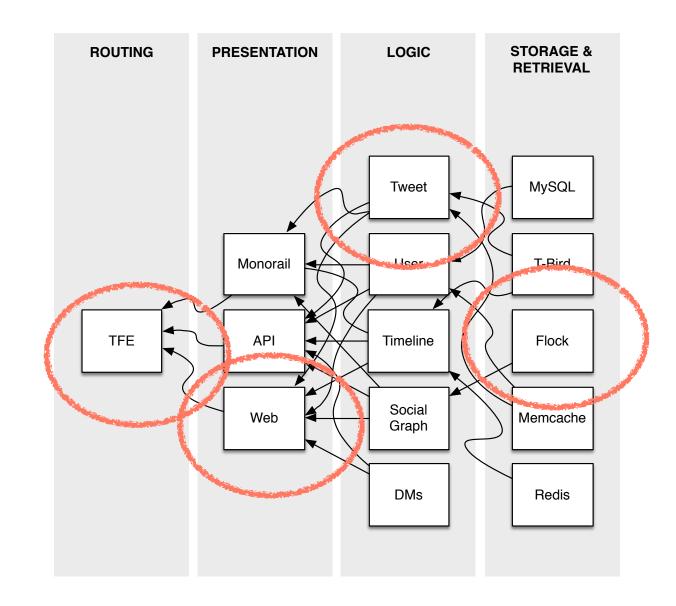
Many smaller, clearly scoped services Single responsibility principle Independently managed Clear ownership for each service



Single codebase All computational logic are in-memory Easy to scale horizontally Handled by a central operations team

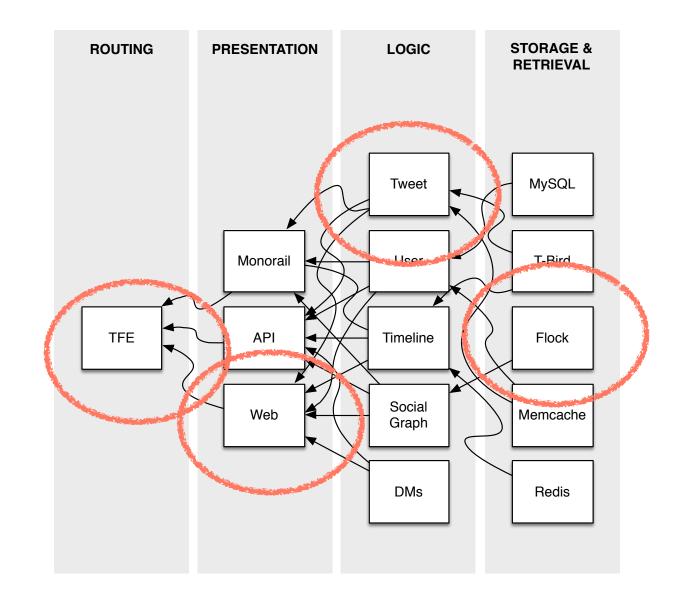


Many smaller, clearly scoped services Single responsibility principle Independently managed Clear ownership for each service



Single responsibility principle Independently managed Clear ownership for each service

- Many smaller, clearly scoped services

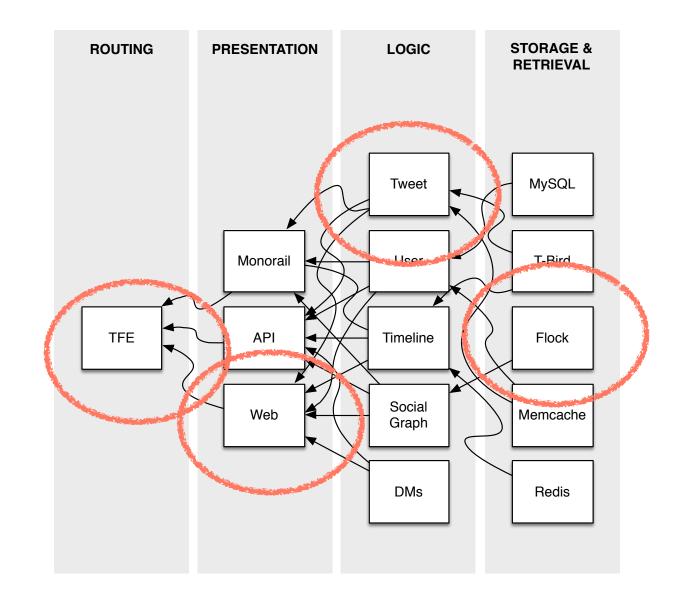


Single responsibility principle Independently managed Clear ownership for each service team

- Many smaller, clearly scoped services teams

Ways must be found to reward design managers for keeping their organizations lean and flexible. There is need for a philosophy of system design management which is not based on the assumption that adding manpower simply adds to productivity.

Melvin Conway



Single responsibility principle Independently managed Clear ownership for each service team

- Many smaller, clearly scoped services teams

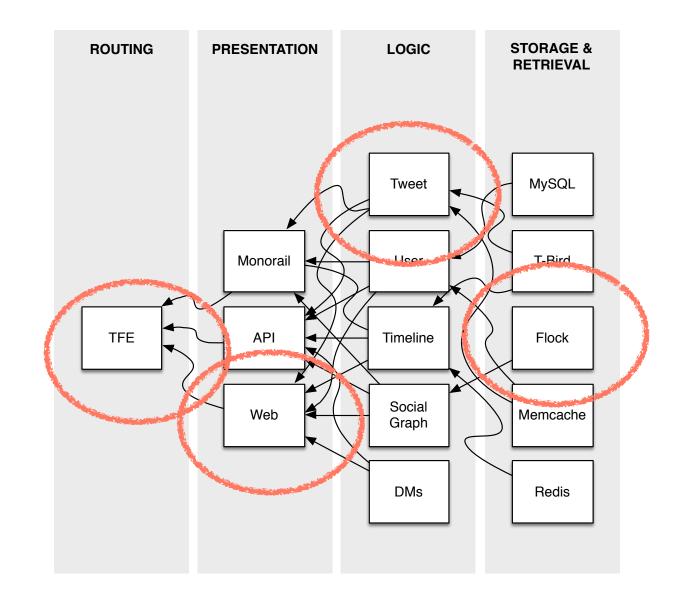
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Melvin Conway

Melvin Conway (sorta)

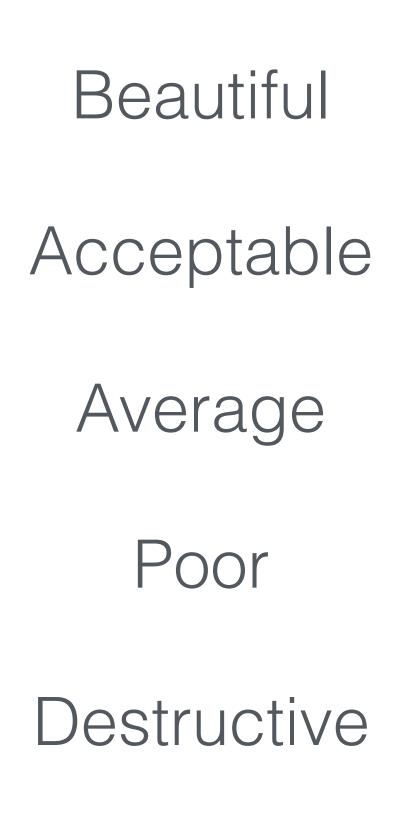
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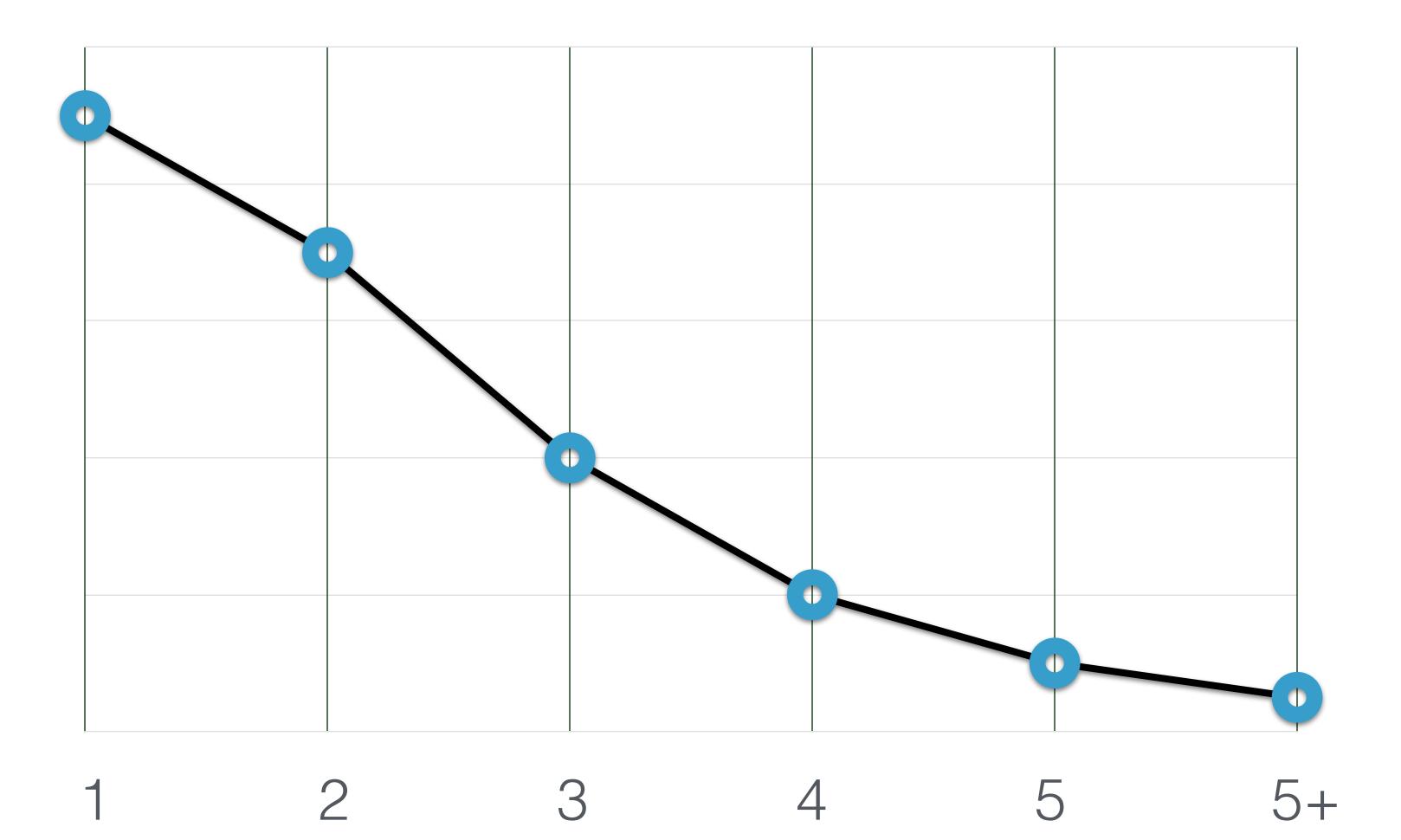


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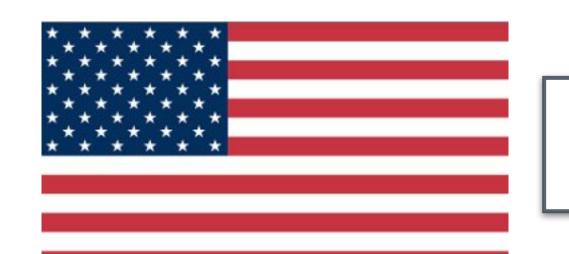






You know you have reached perfection of design not when you have nothing more to add, but when you have nothing more to take away.

Antoine de Saint-Exupéry

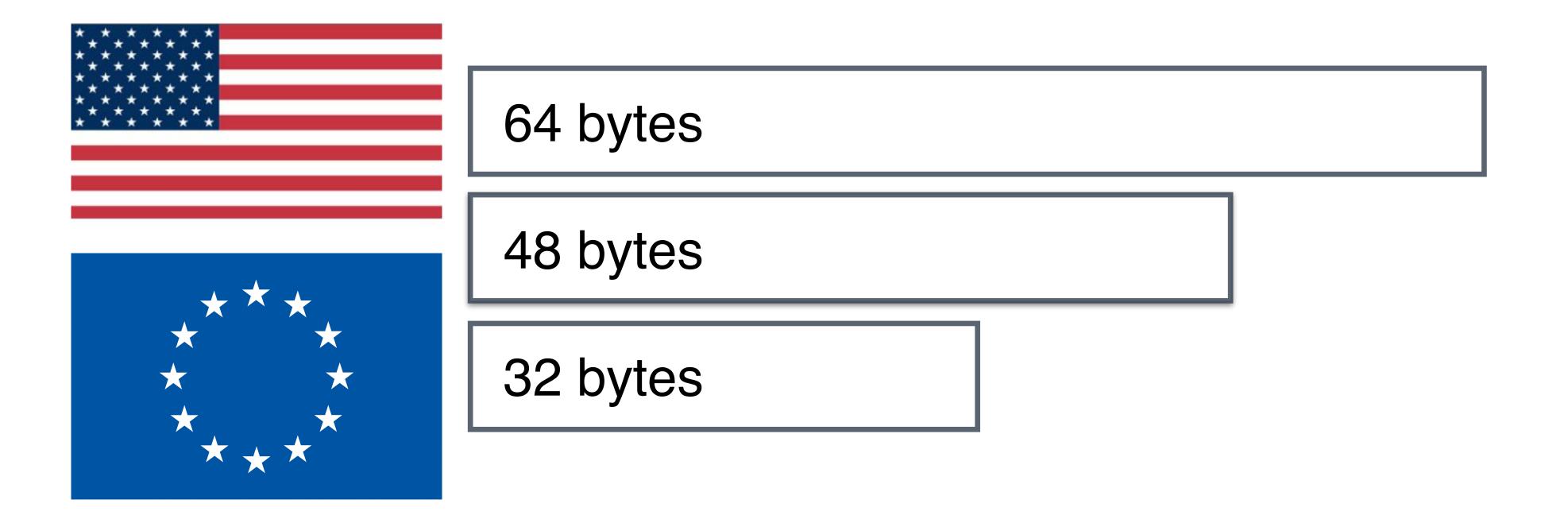


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S



Product should be a dictatorship.

Michael Arrington

0. It's not all about the code!

- 1. Small teams can do big things.
- 2. Full stack teams keeps your architecture flexible.
- 3. Make your teams mimic your architecture.
- 4. Make product a dictatorship.
 - Me

T F ANKS

Raffi Krikorian @raffi & raffi.krikorian@gmaill.com