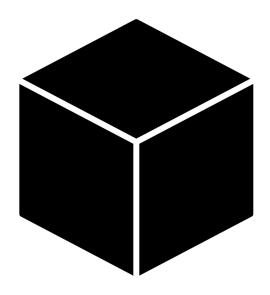
Decision making in black box scenarios

Boyan Angelov

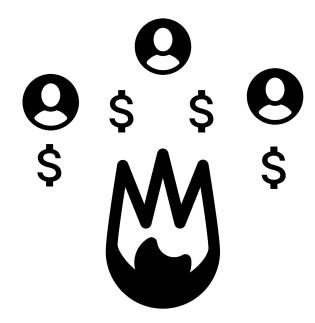




A story

- Legacy black box
 - Complex
 - Arcane
 - No support
- Critical
 - Operational bottleneck
 - Financial repercussions
 - No backups

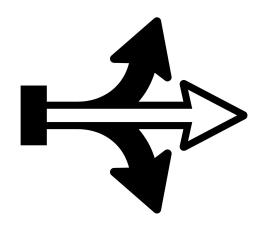
Stay tuned for the ending...





The importance of decision making

- Thousands per day
- Relative importance
- Stacking up
- No decision is a decision
- Consequences





Deciding to select a tech stack



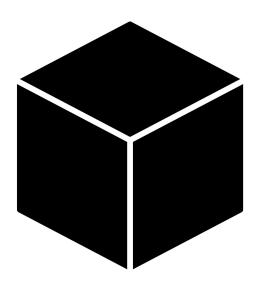
Prioritizing a task or a project



Deciding to hire



Defining black boxes



Any system that we can't understand fully under constraints.



Legacy systems



Complex systems



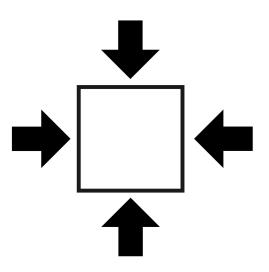
Large teams



The problem: constraints

With unlimited time, we can understand *any* black box and make a perfect decision.

- •‡• Knowledge
- → Budgets
- +**∴**+ Time





Solution: two new types of thinking







Zen monk

Our normal mode of operation.





- Wait
- Don't rush
- Respect the system

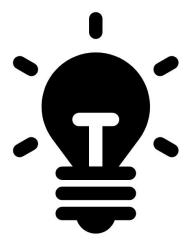


Scientist

- Have a scientific approach: conduct controlled experiments (i.e. switching on and off of components)
- Recognize boundaries
- Recognize relationships and feedback loops
- Measure and change inputs and outputs
- Replicate the system



How the story ended



- With all those methods we saved the day
- It remained a black box, but under control
- Moved to a new system



Parting thoughts

Become a **systems thinker** (zen monk + scientist)!

It's a skill that can be learned.

Happy unboxing!

