Incremental and **Iterative** Software Architecture

PV260 Software Quality

Ondřej "Ondra" Krajíček
ondrej.krajicek@ysoft.com
@OndrejKrajicek

How to **make sure we don't screw up** in the long run?

PV260 Software Quality

Ondřej "Ondra" Krajíček
ondrej.krajicek@ysoft.com
@OndrejKrajicek

HOW WE BUILD BASIC BUILDING BLOCKS
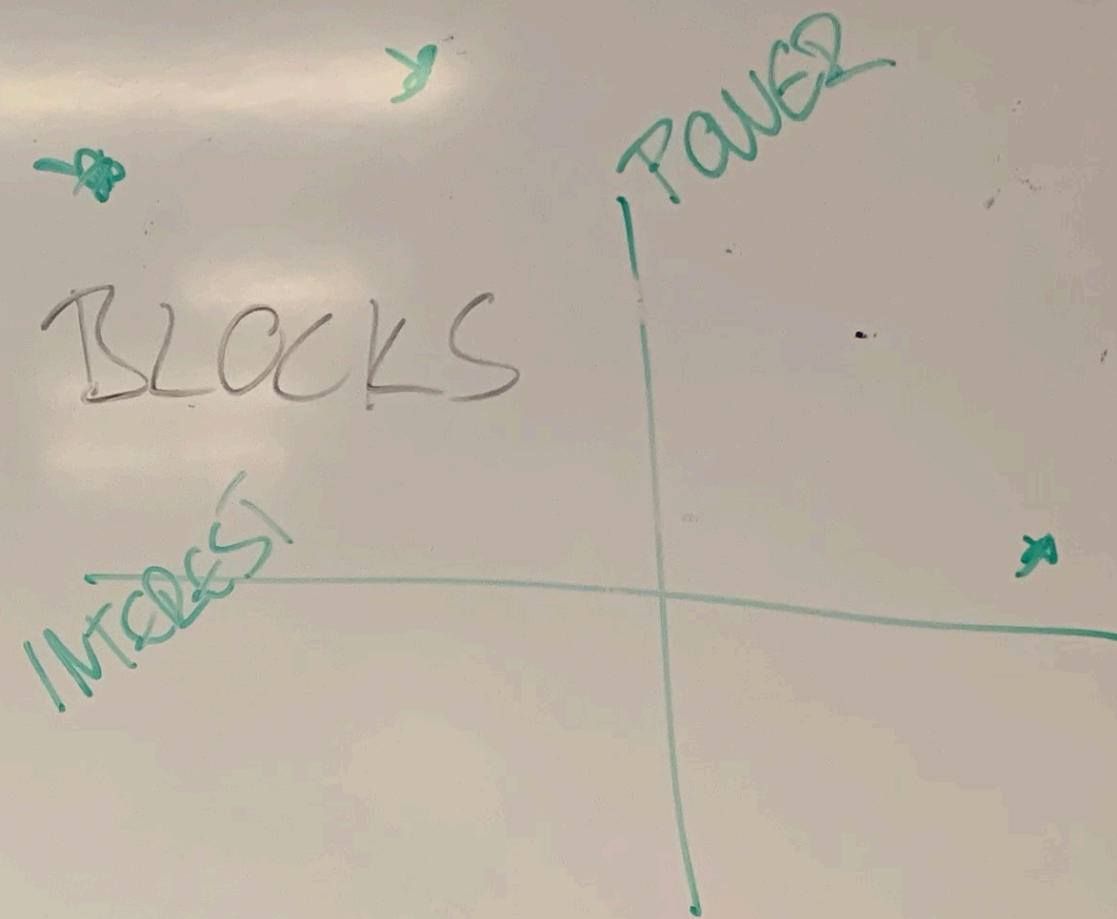HOW TO CONNECT COMPONENTS
HOW TO STRUCTURE
CHOSING THE RIGHT TECH.
HOW TO MAKE SYSTEM EXTENSIBLE & SCALABLE
DOCUMENTATION
PROCESS „BEFORE" DEVELOPMENT
SA = DESIGN & ANALYSIS
ANTICIPATION

POWER
INTEREST

HOW TO PLAN?
SUSTAINABILITY
(COST)
• FUTURE EXTENSIBILITY

Incremental, **Iterative**, **Lean**, **PDCA**

A slight but **incredibly important** detour

Architecture is a servant of high priority stakeholder values.

Architecture is a servant of high priority stakeholder values.

Is as simple as possible, but not simpler.

Architecture is a servant of high priority stakeholder values.

Is as simple as possible, but not simpler.

Is designed to be replaceable.

Software Architecture is a Strategy.

Software Architecture is a Strategy.

Software Architecture is Communication.

Software Architecture is a Strategy.

Software Architecture is Communication.

Software Architect is a Teacher.

Who does architecture?

Who does architecture?

Everyone.

Incremental, **Iterative** or **Both**?

Why Incremental?

Why Iterative?

Lean explains why Agile techniques **sometimes** work.

Lean Principles applied to Software Architecture

- Eliminate Waste

- Build Quality In

- Create Knowledge

- Defer Commitment

- Deliver Fast

- Respect People

- Optimize the Whole

Lean Architecture?

How Iterative?

How Incremental?

Let the **KATA** begin!

https://archkatas.herokuapp.com/rules.html