Agile & Architecture Special Track @ Patterns 2024

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What is Architecture

- The fundamental organization of a System

- Its components

- Their relations

- The environment

- Principles guiding the evolution

Each System HAS an Architecture.
Each System IS its Architecture

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What is Agile?

agile *adjective*

🔖 Save Word

ag·ile | \ ˈa-jəl 🔊, - ˌjī(-ə)l 🔊 \

Definition of *agile*

1 : marked by ready ability to move with quick easy grace
// an *agile* dancer

2 : having a quick resourceful and adaptable character
// an *agile* mind

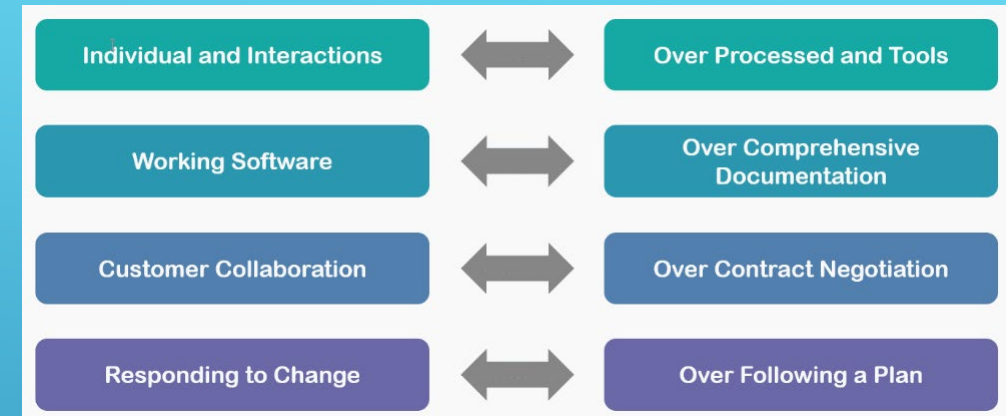**Synonyms & Antonyms for *agile***

Synonyms

featly, feline, graceful, gracile, light, light-footed (*also* light-foot), lightsome, lissome (*also* lissom), lithe, lithesome, nimble, spry

Antonyms

awkward, clumsy, gawky, graceless, klutzy, lumbering, ungainly, ungraceful

What is Agile Delivery

▶ Agile is a method of delivering something.

▶ Driven by "Agile Manifesto"

▶ **SCRUM: nothing**

▶ **SAFe: Agile Architecture is …**

  ▶ **Evolves Systems over time while supporting needs of current users → Method**

  ▶ **Avoid overhead and delays associated with phase-gated processes → Method**

  ▶ **Ensure Systems Always run → Method**

  ▶ **Supports the continuous flow of value → Method**

  ▶ **Balances intention architecture and emerging design → Miracle?**

  ▶ **According to SAFe, Agile Architecture is about the process/method of performing Architecture. No longer a phase gates process, but a process focusing on continuous flow of value.**

▶ **The Agility of a System must come from the "intentional architecture"**

Agile & Architecture
By Deduction …

▶ Architecture = the Structure of a System

▶ Agile = ability to change, to evolve

▶ Agile System = a System with a Structure that can change

▶ Agile Systems = Systems that "have the ability to move with quick and easy grace"

▶ Agile Architecture = a property of a System.

▶ A System does not become "Agile" by itself; it must be designed for this ability.

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4 papers about the value of an Agile Architecture:

- SOLID vs NS – by Gerco Koks
- Use Case 1: Rejuvenation – by Jan Verelst
- Use Case 2: Software Migration – by Christophe De Clercq
- Agility in Software Factory – by Herwig Mannaert