

# Software Architecture Paradigms

*“We have found that understanding software architecture is the key to developing many important software solutions.”*

B. Stroustrup, 1991.

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## 1. Objectives

- An architecture design document is the key technical document used to determine whether the critical system requirements are met.
- Software design determines how requirements are realized as software structures.
- This is the immediate step after the requirements engineering phase in the software life-cycle.
- In software development, it is useful to organize architectures into families and associate families with typical applications: This will help reduce the overall development time
- Where are we in the software life cycle?

Requirements	Design	Implementation	....
	Software Architectures		
		Components	
	Software Component Architecture		
DSSA: Domain-Specific Software Architectures			
	Frameworks		
	Design Patterns		
		Which Programming language?	