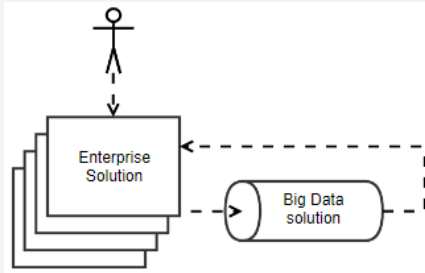


Patterns in Big Data Architecture

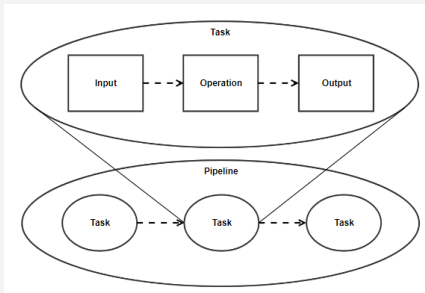
Patterns are everywhere and indicate best practices. Therefore patterns are not invented but found. The start of software design patterns began in the early nineties of the 20th century based on building architectures and were first published as the famous [gang of four design patterns](#). Ever since the idea of patterns grew and grew to a huge collection of thousands of patterns in nearly every discipline and part - not only reduced to software development anymore. Just to mention it - patterns can be brought together in a compound to create new more high level patterns.. There are currently pattern collections (or pattern languages) on different modern fields of software development like patterns for [cloud computing](#), [microservices](#) and [big data solutions](#). You can design a complete solution and therefore consider all lessons learned, pitfalls, and best practices from the start.

Integration of Big Data solutions



Big Data solutions are always integrated with existing enterprise solutions and solve the problem of processing a huge volume of data, in as short time as possible, and coping with different structures.

Big Data Pipeline compound pattern



Big Data solutions are therefore always a data pipeline consisting of several steps whereas each step identifies its input, several operations and an output.

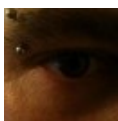
Existing Big Data Compound Patterns

Logical Big Data Architecture

Big Data Mechanisms

Further Reading

This overview is an excerpt of the approach to define a suitable Big Data solution environment architecture. For further investigations checkout several courses of [Arcitura's Big Data School](#). A summary of all the presented information is readable on the [Big Data Patterns Overview of Arcitura](#).



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