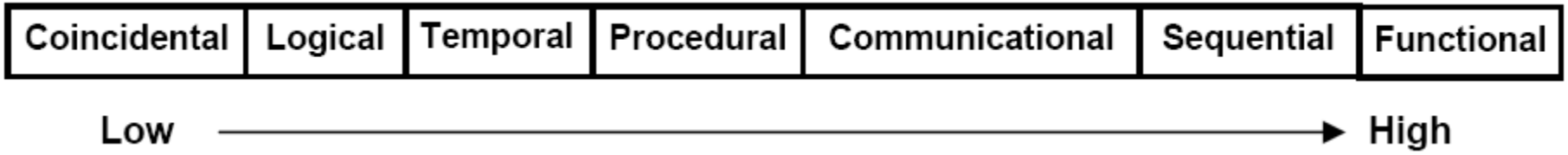
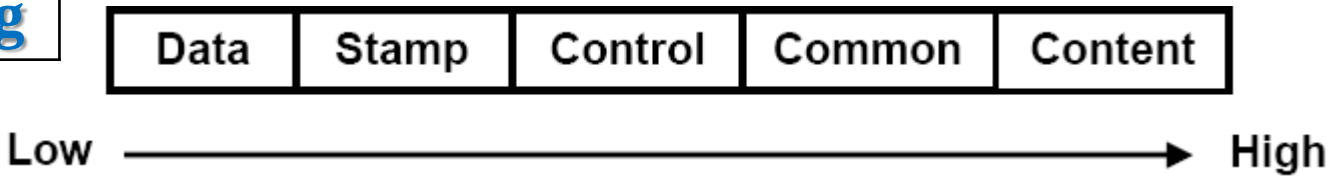
Cohesion : Cohesion means functional strength of module.
Coupling : Coupling means degree of interaction between two modules(**Interdependency**)

*A modular design has **high cohesion i.e Functional cohesion** and **low coupling i.e Data coupling***

Cohesion



Coupling



Cohesion

1) **Coincidental cohesion:** A module is said to have coincidental cohesion , if each element of module execute independently.
2) **Logical cohesion:** A module is said to be logically cohesive, if all elements of the module perform similar operations

CL

3) **Temporal cohesion:** When a module contains functions that are related by the fact that all the functions must be executed in the same time span
4) **Procedural cohesion:** A module is said to possess procedural cohesion , if the set of functions of the module are all part of a procedure (algorithm) in which certain sequence of steps have to be carried out for achieving an Objective

TP

5) **Communicational cohesion:** A module is said to have communicational cohesion, if all functions of the module refer to or update the same data structure

CS

6) **Sequential cohesion:** A module is said to possess sequential cohesion, if the elements of a module form the sequence, where the output from one element is input to the next.
7) **Functional cohesion:** Functional cohesion is said to exist, if different elements of a module cooperate to achieve a single function.

Coupling

1) **Data coupling:** Two modules are data coupled, if they communicate through a parameter
2) **Stamp coupling:** Two modules are stamp coupled, if they communicate using a composite data item such as a structure in C

SCCC

3) **Control coupling:** One module supervise the order of execution of other module i.e ***parent child relationship*** or you can say ***base class derived class relationship.***
4) **Common coupling**: Two modules are common coupled, if they share data through some global data items.

5) **Content coupling**: One module can modify the content of another module for its functionality.