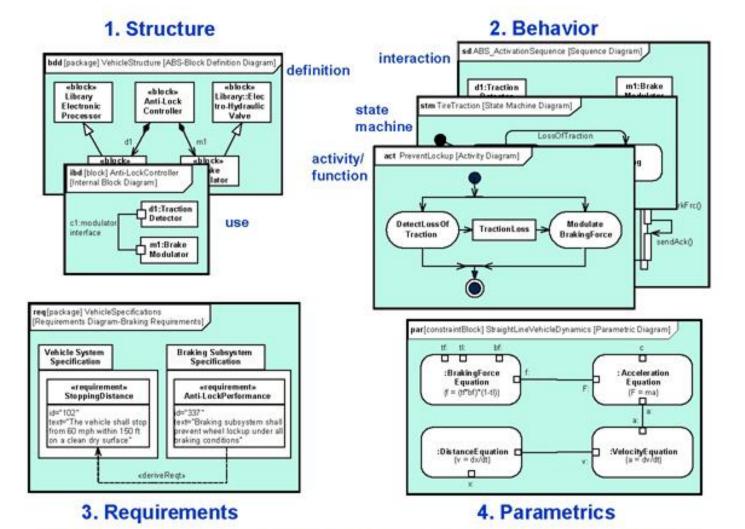
SysML Introduction

Introduction to Systems Engineering 12ISE

Introduction to SysML^D

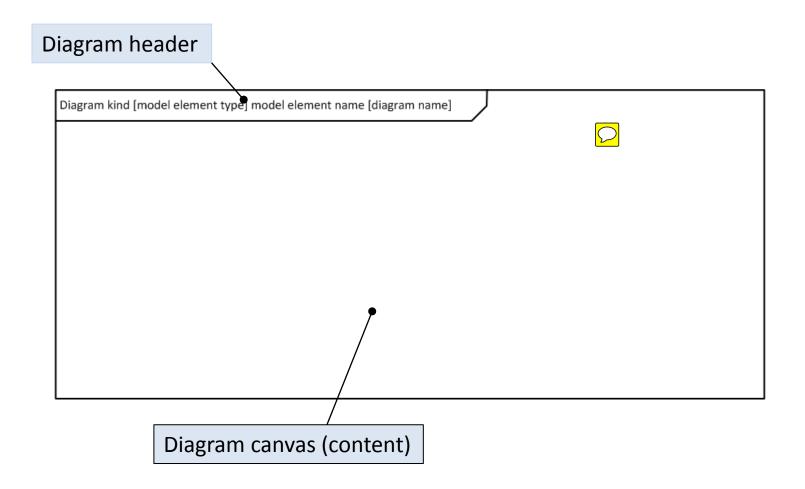
- SysML = System Modeling Language
 - Supports analysis, specification, design, and verification/validation of systems (hardware, software, mechanics, personnel)
- Allows the formation and communication of a system model using diagrams
- Elements in different (types of) diagrams are reused to convey different aspects of the elements' use
- SysML is an enabler of Model-Based Systems Engineering
 - The model, not documentation, is in focus

SysML "pillars" (diagrams)

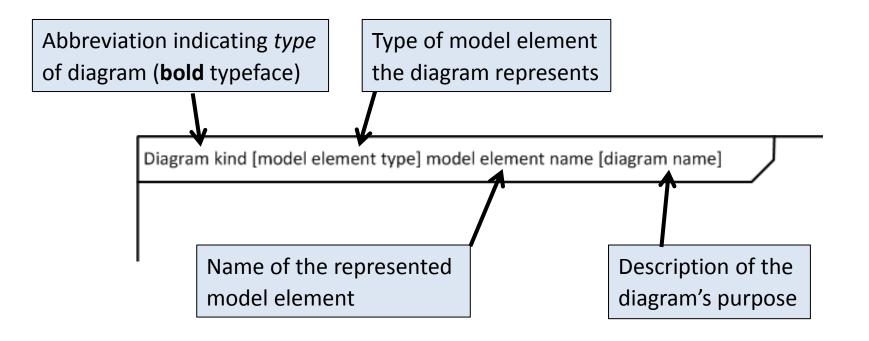


SysML: Diagram frame

The diagram frame consists of header and canvas



SysML: Diagram header



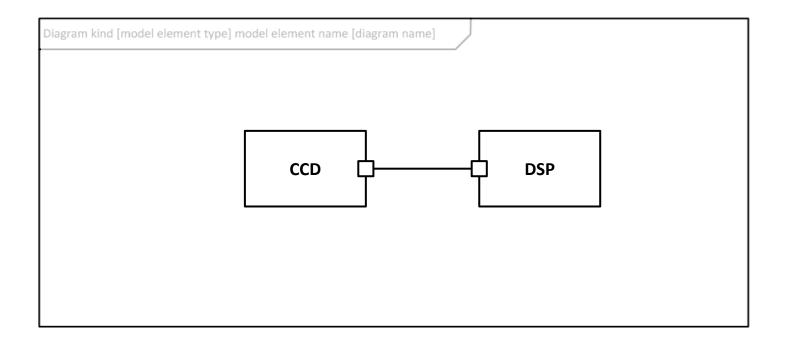
SysML: Diagram header - example

bdd [block] Camera [Hierachical system structure]

- This is a block definition diagram (bdd), defining the hierarchical system structure of the block Camera
- Items in brackets are optional model element type
 frequently omitted, diagram name frequently included

SysML: Diagram canvas

The diagram canvas holds the modeling elements



SysML: Diagram types

