

Define Requirement Types/Classes

- **Composition Elements** - cells, designs, design reuse, macros, cell libs, circuits, elements
- **Hierarchy** - definition, instance, occurrence, configuration,
- **Design management** - identification, versioning, alternatives, configuration, definitions, interface,
- **Test** - test plan, test requirements, test H/S, vectors (observe/control), test bench/stimulus
- **Topology** - logical, structural, syntax
- **Physical** - area utilization
- **Cost** - material, labor, design, mfg, support, redesign, schedule
- **Domains** - digital, analog, mechanical, acoustic, light, mixed
- **Decision** - (don't) care
- **General** - definition, internal composition, interface (semantics, syntax)
- **Deterministic** - non..., (un)bound,
- **Environment**
- **Signals** - information, energy, material flow, token, protocol, channel/band,
- **life cycle** - cost, schedule, ...
- **Power** - control & consumption, distribution, flow
- **Process** - activation (when), guard, transformation, constraints, interaction, decision, flow control,
- **Architecture** - Control, dataflow, memory
- **Reliability**, quality, quality assurance, availability, design intent
- **temporal** - sequence/sequential, clock, state machine, process, state (dynamic), coherent, (a)synch, concurrent,
- **functional organization** - hierarchy
- **Allocation**, partitioning, decomposition
- **Support for simulation**, analysis, regression,
- **implementation approach**
- **architecture approach**
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Define Associated Requirements Actions / Attributes

- **Static**, dynamic, temporal, (non)deterministic, consistent, coupled, context-sensitive
 - **Semantic consistency**
 - **Granularity**, templates, macros, models, views, policy, category, set/collection,
 - **bound**, intent, association, interpretation, assignment, map
 - **continuous**, contiguous, (re)allocation, incremental, parallel, distributed, heterogeneous, tracking
 - **Attribute** - property, condition, constraints, specification, requirement
- Aggregation - queue, table, index, taxonomy, composite, parts, primitive, encapsulation, scope, refinement, inheritance, formal, **executable**, **orthogonality**, **reusability**
- **cost**, schedule, plan, milestone, declarative, decomposition
 - **Expression**, generality, simplicity, compilable, synthesis, verifiable, model of computation
 - **prototyping** - conception, virtual, HW, SW, H/S, modeling
 - **decision making**
 - **constraint generation**
 - **Requirements capture**
 - **View to integrated definition**
 - **How to use models without knowing how they work**
 - **primary**, derived requirements
 - **User interface** - GUI / graphics,
 - **Multilevel**, multidomain
 - **validation** - (by) construction, verification, simulation, testing, intuition, assertion

- heterogeneous - homogeneous