Taxonomies of Testing Techniques

- Conventional taxonomies
- Based on operational characteristics
 - Static vs. Dynamic
- For example,

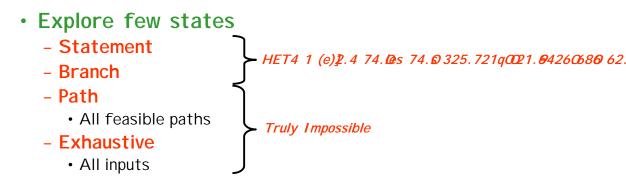
An Example Taxonomy

- Two dimensions
 - Types of documents
 - Static/dynamic

Why Taxonomy?

• Well suited to *planning* a series of

Sampling



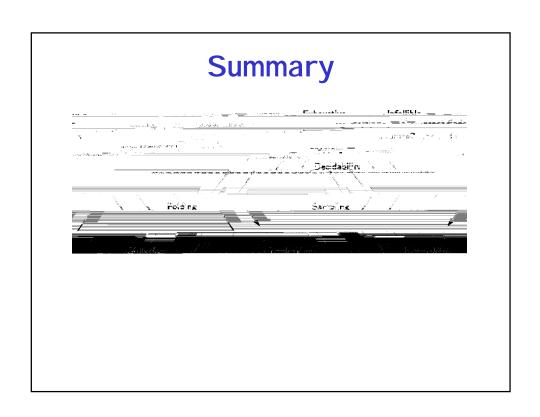
- Threshold of tractability!
- Threshold of decidability!

Proving Correctness

- Impossible in general
- •

Combining Folding & Sampling

- First fold states to get a "smaller" state-space
- The sample a part of this statespace
- For example, create a Petri net model and execute it



Symbolic Evaluation

- Symbolic execution
 - Program flow-graph
 - Nodes for each program statement
 - "If" statement node has two out-edges

Symbolic Execution

Program state

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