

Material and some slide content from:

- Emerson Murphy-Hill
- Software Architecture: Foundations, Theory, and Practice
- Essential Software Architecture

# Architectural Styles

Reid Holmes

Lecture 10 - Monday, February 4, 2013.

# Deliverable #2 discussion

- ▶ Due Monday Feb 11 @ 0800
  - ▶ Written and oral component

# Architectural representations

- ▶ Characteristics of representations:
  - ▶ Ambiguity: Open to more than one interpretation?
  - ▶ Accuracy: Correct within tolerances
  - ▶ Precision: Exact but not necessarily correct
- ▶ Architectural models can be overwhelming
  - ▶ Model individual concerns with unique views
  - ▶ Views overlap and can be consistent on inconsistent

# Precision & Recall



# Statechart diagram

- ▶ More formal description of system behaviour.
- ▶ Poor mapping between states and components.

# Component diagram

- ▶ Captures components and relationships.
  - ▶ Required and provided APIs explicitly recorded.

# Deployment diagram

- ▶ Provide mapping between physical devices

# Sequence diagram

- ▶ Focus on inter-component collaboration.
- ▶ Capture behaviour for specific scenarios.



# Review

