17-708 SOFTWARE PRODUCT LINES: CONCEPTS AND IMPLEMENTATION

TRADEOFFS

CHRISTIAN KAESTNER
CARNEGIE MELLON UNIVERSITY
INSTITUTE FOR SOFTWARE RESEARCH
PROJECT

Explore a topic in depth

  Case study, experiment, …

  Build a tool, compare two tools, gather data…

Connect course to your research / interests

Suggest a topic next week

Summarize results in a report (paper draft)

Chapter 3, 6.1


Sect 1-3
LEARNING GOALS

Reason about tradeoffs among implementation approaches
Identify important dimensions of differences
DIMENSIONS AND QUALITIES

Binding time
Language vs tool driven
Annotation vs composition vs generation
Planning effort
Feature traceability
Separation of concerns
Information hiding
Granularity
Uniformity
...