

Software Systems Architecture

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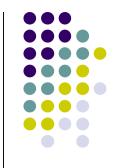
Course Overview

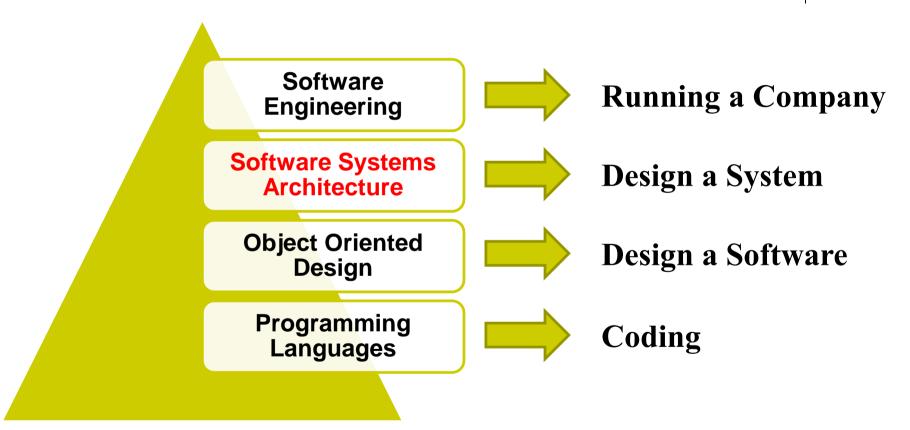


Software Systems Architecture Overview

- Design Principles
- Design Patterns
- Modeling Tools and Languages
- SSA Styles
- Quality Attributes
- Software Product Line
- Summary of SSA

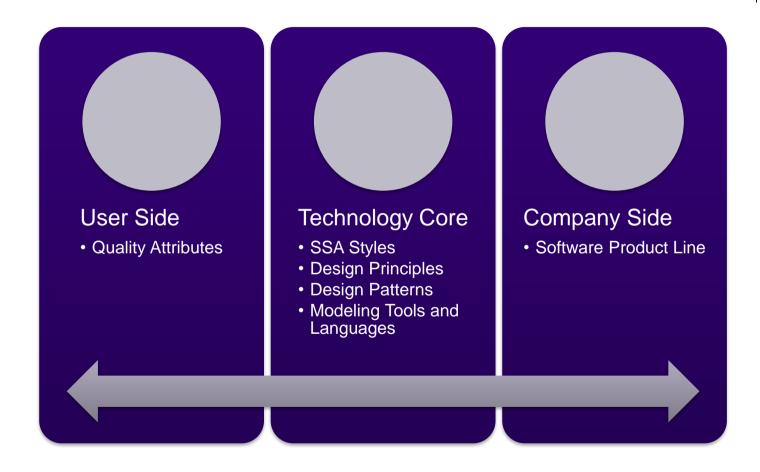












Software Systems Architecture

Course Property & Principles



- Evolutional Knowledge
- Open Course & More Discussion
- Tools First
- Two Course Consultants from Baidu

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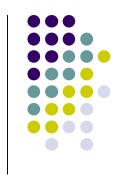
More Practical Program Design

Literature



- Software Architecture in Practice, 3rd Edition
 By Len Bass, Paul Clements, Rick
 Kazman, Publisher: Addison Wesley,
 ISBN: 978- 0321815736 。
- Agile Software Development, Principles, Patterns, and Practices, by Robert C. Martin, Publisher: Prentice Hall, ISBN-10: 0135974445, ISBN-13: 978-1292025940.
- The Design Patterns Java Companion, Free online book by James W. Cooper





- 软件体系结构(第二版) 覃征,邢剑宽,董金春,郑翔编著 出版社:清华大学出版社,2008-3-1
- 软件体系结构(第2版)张友生 等编著 出版社:清华大学 出版社,2006-11-1
- 软件体系结构理论与实践 马冲, 江贺, 冯静芳 编著 出版社: 人民邮电出版社, 2004-01
- 冀振燕编著,《UML系统分析与设计教程(第二版)》(21世纪高等学校计算机规划教材精品系列),人民邮电出版社,ISBN 978-7-115-19795-5/TP, 2009.5月。

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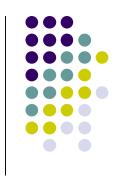


- Carnegie Mellon SEI: http://www.sei.cmu.edu/ata/ata init.html
- Worldwide Institute of Software Architects:

http://www.wwisa.org/wwisamain/index.ht m

- Software Architecture:
 - http://www.softat.org/
- 中国系统分析员: http://www.csai.cn/





OO Design Principles:

 http://c2.com/cgi/wiki?PrinciplesOfObjectOrient ed Design

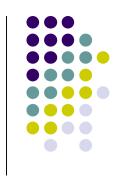
Design Patterns:

- http://sourcemaking.com/design_patterns
- http://www.tutorialspoint.com/design_pattern/b uild er pattern.htm





- Your final score consists of three parts.
 - Completion of Video Materials 20%
 - Assignments 30%
 - Written Exam/Curriculum Design 50%



Any More Questions?