

Overview and Introduction to Klax

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ICS 52: Introduction to Software Engineering

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 - *Or by prior appointment*
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- *ICS2 is locked, so you may need to knock, send an email, phone me, or follow someone*

A few comments on discussions

- *Discussions are by and large mandatory*
- *Should be more open-ended than lectures*
- *If you don't attend, you likely won't be able to do the assignments.*
 - *They just won't make much sense.*
- *Slides will be posted on Dr. Taylor's site*
 - http://www.ics.uci.edu/~taylor/ICS_52_FQ04/syllabus.html

When we will have discussions?

- *Hard copy of assignments are due at beginning of discussion.*
 - *If you can't make it, make arrangements!*
- *Occasionally, discussion will be cancelled.*
 - *Notification to course list or in lecture*
- *Otherwise, assume we have discussions.*

What should you know?

- *The course syllabus has the pre-reqs*
- *You must have a familiarity with Java*
- *You should also have sufficient grasp of English language to write coherent technical documents that make sense.*
- *If you feel you don't, please get in touch now!*

A word about assignments

- *All assignments are individual in ICS 52*
 - ***NO WORKING WITH OTHERS!***
 - *You will have plenty of team work later*
- *“Your TA is your friend, your friend is not your TA.”*
 - *Cheating is wrong. It is lying. Don't do it.*

Klax: An old video game

- *Coin-op game circa late 1980s.*
- *“[The developer] originally programmed this in Amiga Basic, then ported it line-by-line to C. It was written in just a few weeks on "Escape From the Planet of the Robot Monsters" hardware.”*
- *http://www.arcade-history.com/history_database.php?page=detail&id=1300*

Nostalgia's great, but...

- *Don't bother with emulators (MAME...)*
 - *Your focus will be on **our** prototype!*
 - *Have some fun playing it...*
 - *Yet, don't get distracted.*
- *Mostly written around 1997; updated 2000.*
- *Written in a particular architectural style*

Introduction to ArchStudio

- *In a few weeks, you will hear more in lectures about ‘software architecture’ and the ‘C2 style’*
- *For now, you need to know how to run Klax*
- *Environment (platform) called ArchStudio*
 - *<http://www.isr.uci.edu/projects/archstudio/>*

Installing ArchStudio

- *<http://www.isr.uci.edu/projects/archstudio/setup-easy.html>*
- *<http://www.isr.uci.edu/projects/softwareupdate/>*
- *Requires Java 1.4 installed*
 - *For updater, browser must support 1.4*
- *Install 'xArchLibs', 'ArchStudio', and 'Apigen'*

Configuring ArchStudio

- *Run 'java -jar archstudio.jar'*
 - *May be able to double-click on JAR file*
- *Walk through choices...*
- *Produces a script (for Win32 or Unix)*
- *Again, just follow: <http://www.isr.uci.edu/projects/archstudio/setup-easy.html>*

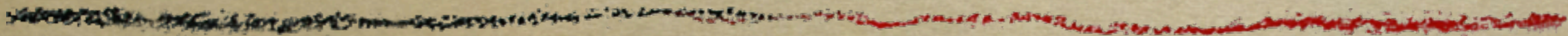
Invoking Klax with ArchStudio

- *File | Open ... regular-klax.xml*
- *Can drag-and-drop regular-klax.xml file on File Manager Window*
- *Select (Highlight) 'regular-klax.xml'*
- *Invoke | AEMDriver*
- *Click Instantiate on lower-right-hand side*

Klax Quick Reference

- *Left arrow moves your palette left*
- *Right arrow moves your palette right*
- *Down arrow drops your palette into chute*
- *You must catch tile with palette*
- *Vertical, horizontal, and diagonal sequences of three or more cause removal*

Klax Demo



Where we are headed...

- *All in the context of Klax...*
 - *Initial emphasis on ‘reverse-engineering’*
- *Requirements: What does it do?*
- *Design: How does it do it?*
- *Testing: Does it do what it should?*
- *Implementation: Make it do what it should*

Next Discussion Time...

- *Introduce 'Requirements Specification'*
- *Assignment #1 will be due on October 18th, 2004 here in discussion*
 - *Electronic submission via EEE DropBox*
- *The best thing you can do this weekend is make sure you can play Klax!*

