CS193p

Spring 2010

Today's Topics

- Final Project Guidelines
- Guest Presentation: iStanford
- A few Final Project ideas
- UIKit Control of the Week: UISegmentedControl

Final Project

- Proposal due Friday; must be approved by Monday
  - Send via e-mail to cs193p@cs.stanford.edu.
  - At least a couple of paragraphs of description.
  - Talk about not only what you are doing, but what parts of SDK will be featured.
- Code submission due 11:59pm on Monday the 7th
  - Use normal submission process
  - NO LATE DAYS.
  - The assignment for this week is last opportunity to use late days.
- Presentation during final exam period on the 8th
  - 4-minute Keynote presentation
  - More on presentation in a moment
- Must submit Keynote slides by Sunday the 6th
  - This gives us Monday to compile them into a single file for expediency.
  - Strongly recommended to submit it earlier (more time to recover if error).

Final Project

- Scope is the same as three weeks of homework
  - Luckily, you'll have three weeks to do it.
  - Check out last quarter's iTunes presentations to get an idea of scope
- One- or two-person teams
  - Be sure to include the proposed team in your proposal.
  - Division of work must be explained (preferably in proposal (or shortly thereafter), but required in submission).
  - Two-person team is six weeks of homework total (obviously).
- Must work on hardware!
  - Bring your hardware to final to demo to TA (if not during presentation).
  - iPad or iPhone or iPod Touch okay.
- Only iPhone SDK code "counts"
  - Don't waste your time writing server-side code
  - Okay to "simulate" a server-side interaction to make your code demonstrable

Final Project

- You'll be graded on proper use of SDK
  Hackery will count against you

- Aesthetics of your user-interface matter
  Though we do not expect professional graphic designer quality graphics
  Sloppy layouts will be graded down
  Lots of places to get graphics from on the internet

- Be careful not to get side-tracked on non-code
  Some students in the past have spent 80% of their time working on stuff that didn't demonstrate their mastery of the class material (e.g. preparing some large database or working on graphics too much, etc.).

  In the end, this is an iPhone PROGRAMMING course, so we want to see how well you can program on this platform.

Final Project

- Presentation Matters
  - A portion of your grade will be related to the quality of your presentation.
  - Not okay to just put up a recording of you or of your application and say nothing.
  - Being able to make a live presentation is a valuable skill.
  - Practice your presentation before you show up.
  - You only get 4 minutes (strictly enforced), so make `em count.
- Live Demo and/or Video Demo and/or Animation
  - Time limit will be strictly enforced, so if you go for live, you take a risk.
  - You must, at worst, show screen shots of your application.
  - Keynote has a lot of tools to "animate" screen shots (better than static).

iStanford

- Blackboard Mobile

Other Ideas

- Electronic Ticket
  App which lets users buy (via website interface?) or trade tickets.
  Graphical user-interface to find your seat (and directions too).
  Entrance to venue by bar code or even GameKit-driven bluetooth recognition.

- Live Drive Chart w/Photos
  Shows every play graphically on a "football field."
  Users can bring up live photos of a play and up-to-date stats.
  Maybe use Twitter as the "back end"?

- Tailgater!
  Register and find friends (in parking lot) who are tailgating (using gps?)

- Virtual Stanford Hall of Fame
  Stats and images of Stanford greats from the past and present.

Other Ideas

- Electronic Game Program
  Like the program you get at a game, but electronic.

- Jumbotron App
  Take pictures of friends or text message.
  Best photos/messages appear on scoreboard.
  Game on scoreboard (guess something or some such), answer on phone.
  Other creative Jumbotron interactivity with fans in the stadium.
  Assume fans have wireless access.

- Game-related Nearby Merchants
  Dinner after the game?
  Want a Stanford t-shirt?
  Other advertising tie-ins.

Other Ideas

- Eye Surgery Interpreter

  Allows surgeon to issue instructions or ask questions of non-English speakers during cataract or glaucoma surgery.

  Contact Dr. Robert Chang in Stanford Medical School: rchang3@stanford.edu

UISegmentedControl

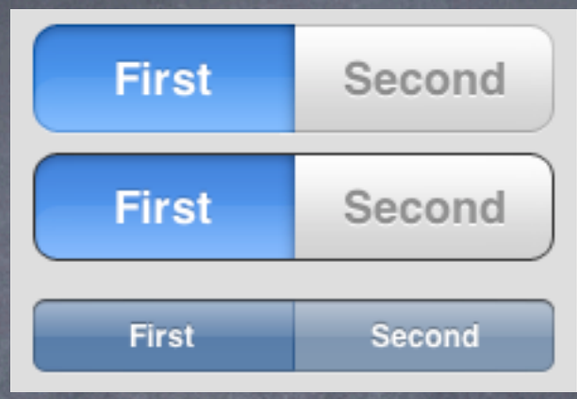
- Three different styles

```
@property UISegmentedControlStyle segmentedControlStyle;
```

UISegmentedControlStylePlain

UISegmentedControlStyleBordered

UISegmentedControlStyleBar



- Initializer takes an array of NSString or UIImage

```
- initWithItems:(NSArray *)items;
```

- Or you can get/set items individually

```
- (void)setImage:(UIImage *) forSegmentAtIndex:(int);
- (NSString *)titleForImageAtIndex:(int);
```

- Set or get which item is selected

```
@property NSInteger selectedSegmentIndex;
```

Will be `UISegmentedControlNoSegment` if nothing is selected