

Toy Night 2012

Graham: Changing the grading structure to match the pacing and skill needs of students
Using a non linear point scale – The points are scaled to match the available time and the difficulty of the assignment.

<http://cs.leanderisd.org>

Dudley:

SW Engineering and test driven development

Working on developing simple tests and then the code to pass the tests

Problems with students just throwing the code in to try and pass the test. This is also part of the problem with students using black box style tests written by the instructor beforehand if the test isn't passing. Teaching students to write their own tests within a framework is also a great idea anyway.

Here is a tiny screencast with JUnit for eclipse

<http://user.xmission.com/~danicody/CTEC/CS%201410/final%20project/JUnit%20with%20Contacts.swf>

Aaron and Maria:

Processing, an easy way to do graphical programming with students and a great way to have interesting assignments after the exam or when students need to work on their own for something fun. It is a wrapper on top of java and is easy to get started with.

Aaron's samples linked include fish tank which gives students options to extend the fish and have as much or as little interaction as they wish. Maria's students created a variety of projects where the interactions with the user included drawing stars with recursive circles as well as expanding penguins

Barb Ericson: Greenfoot and Media Computation

The microsoft kinect can be used to hook to greenfoot, capturing the user's image or even a wire frame which then can be used to interact directly with the existing projects like balloon pop and ball catch.

Jim Huggins: Monkeys & manipulatives
distributive pong on a server stack.

Using text based games are cool – see clones of zork, hitchhikers, etc.

rock paper scissors lizard spock is a great five way game, of course there are many changes you can make to expand the opportunities for conflict even 1001 all that is needed is to generate the necessary conflict management for the relationships involved. Based on if/else/case statements and limited by imagination.

Rich Kick – google docs

share with me only a file that what they know and learned. Make sure that students save so the file builds down the page, adding the new journals to the top of the stack. This makes student journaling very easy to monitor and integrate results back into the classrooms immediately.

Roman U:

Scrabble and cheating leads to a desire to figure out a better way to play the game. Opportunities for figuring out how wrong you were and what the best possible move would have been with your tiles. Found a 1.7 megabyte dictionary and then figuring out all words with 5 vowels, find all q no u, learn how much better it is for a binary search... This would be a great area to support for gridworld version,

and extra tiles can be bought on ebay.

Don Slater:

CMU and alice

alice 3 officially releases this summer and will be showing it off in the social space wed/thurs evenings here at the reading. One of the key things to do is to show opportunities of student creativity to both the class and friends. Animation fairs/awards shows are even more fun.

Groups online with wiggio

www.wiggio.com

Robotics:

<http://www.parallax.com/go/boeobot>

<http://www.usfirst.org>

Interactive code writing with javawide

You can have everyone in the class working on the same project concurrently. A great way to involve the entire class as they do not know who will be expected to contribute at which time.

Projecting code is often a problem with laptops. One way you can make this easier is by creating an account just for dealing with projecting. You can change the settings to make the display as large as is possible and that way you can switch to and suspend that login to maintain the settings as well a where you are in class if you are using the same machine for multiple uses. Dropbox is a great way to share folders through this as well.

Five gum before the exam - I want you to earn a "5"

After AP exam ideas:

windows phone apps

AppInventor

cs concepts – radix sorts based on phone number

raspberrypi – <http://www.raspberrypi.org/> – still on backorder

How to use gridworld to ask someone to prom