

# AP CS Toy Night 2016

## Showing creativity in programming projects

Make the project more open ended - This will provide students with reasonable extensions and/or options for enhancing relevance and creativity.

This can be done by providing a framework with options and give the students opportunity to expand/enhance especially with some directed options rather than completely open ended.

- Magpie → NFL bot
- PhotoLab → Picture slider

## Collaborative programming site

<https://kobra.io>

Includes archive of chat and multiple languages.

## Ria: Support diversity in Computer Science

[EngageCS](#)

## CSTeachingTips

<http://csteachingtips.org>

## AP CS Collective

Join a group to make and share FRQ for classroom use. <http://apcs-collective.com>

## Stuart Reges: University of Washington - CS Resources

[Exam resources](#)

[AP Resources](#)

[Practice problems](#)

Contact stuart for login/pw combination

Archive of exams, keys, and data

Teacher resources including practice files.

## Learn Java in n games

[Games](#)

Game development as an approach to teach computer science and programming. Project based learning with a library

[Jim Huggins: Small Children's toys as data structure instruction.](#)

Oriental Trading Company as a resource for student supplies

- Mini barrel of monkeys
- Fisher Price first monkeys

Colleen: [Google cardboard as a VR teaching tool](#)

Louis Fleming: [Magic Trick](#)

Stack a deck of cards and predict values – linked to a .java file

Couprrie: [Logic Lab](#)

[Class Site](#)

[Logic Lab with cars](#)

[Enhancing Greenfoot to support interfaces](#)

Barb Ericson: [Visualizer and online ebook.](#)

Check Me vs. Compare Me – Track the statistics of student answers

[CSP Options from Python to JavaScript](#)

[Turtles!!!](#)

Kotty: [Processing](#)

[Processing DL](#)

[Resources for using processing including textbooks](#)

Maria: [Math with CS](#)

Continental Math League – Using math problems to enhance computer science skills.

Ben from Oberlin: [Teaching Tips](#)

Setup an account on your laptop for presentations

- Turn off notifications
- Shared folder as needed
- Size/Color settings
- URL History
- Dropbox URL publicly shared

Jill P: 3D printing by code

Tom Lassangee: Greenfoot in a more OOP fashion

Graham Mitchell: Tips

- Blue Solo cup (with holes) on top of screen so students can ask for help
- Don't be creepy
- Leander gamification grading

c9

[cloud 9 browser editor](#)

Scrubber to show change over time

To avoid cheating you can see when the code happens.

Students must supply an "Ah hah" moment via written reflection linked to the time stamp

Talk to the rubber duck to solve complex issues

[https://en.wikipedia.org/wiki/Rubber\\_duck\\_debugging](https://en.wikipedia.org/wiki/Rubber_duck_debugging) Picture of duck and code lizard Harvard's CS50

<http://cs50.wiki/This+is+CS50+AP>

[Cody's Review](#)

Texas Readers: Go here and fill out the form. <http://dfwcsta.com>