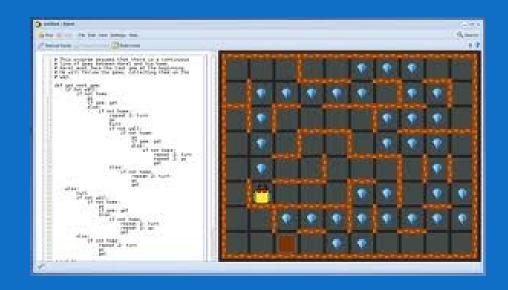


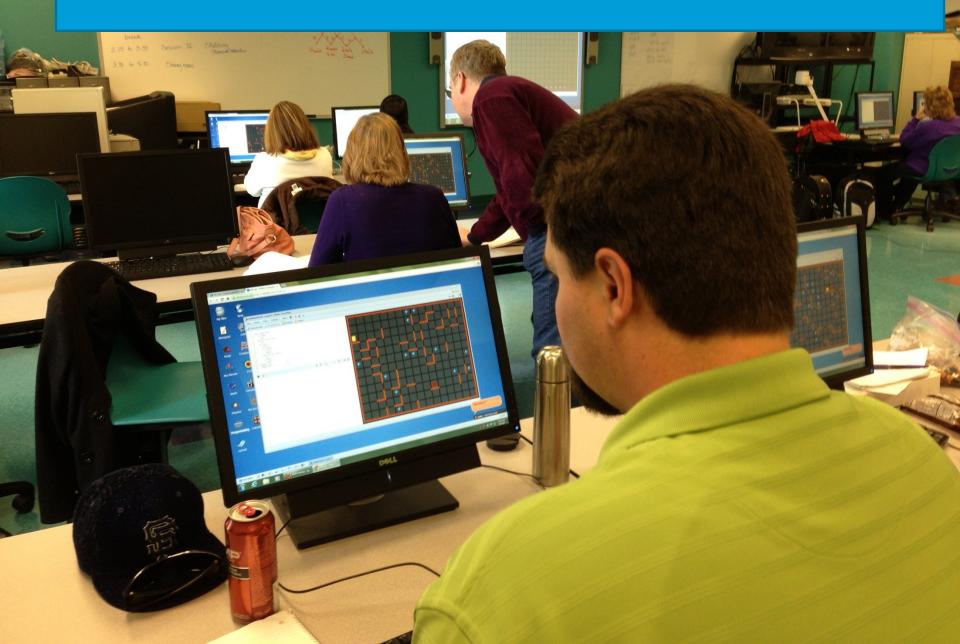
Northeastern Nevada Regional Professional Development Program

A Collaborative Partnership for the Northeastern Nevada STEM Project 2012-2013



Programming With Karel "Charles" the Robot

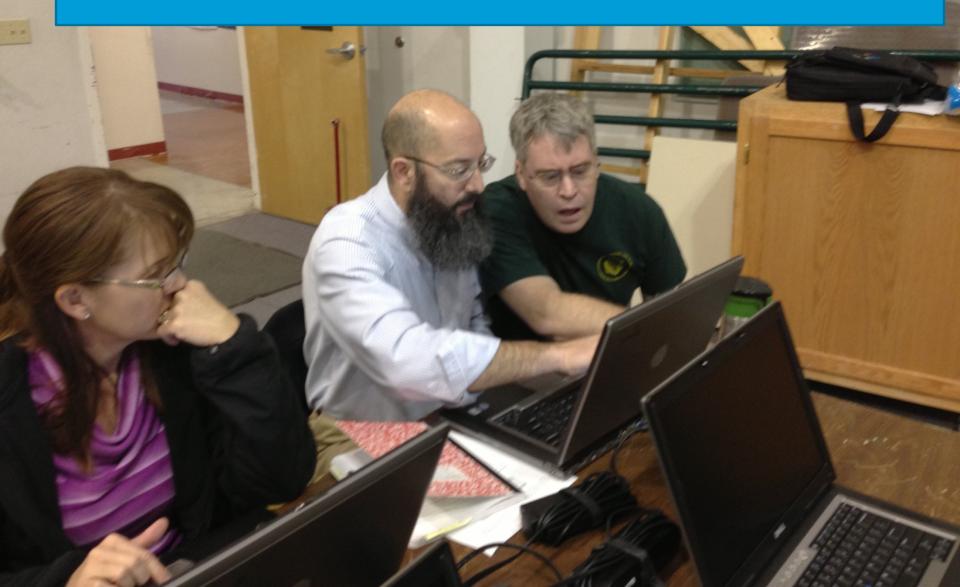
Christopher is programming Karel to find all gems in the maze.



Deb learns that indentation matters..



Bill uses the "rand" command to produce a statistical distribution of gems..

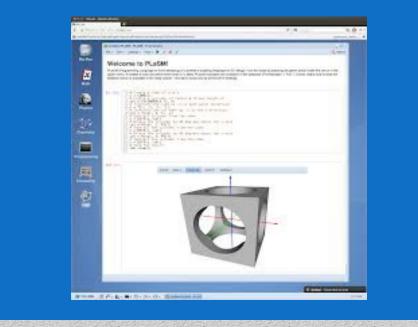


Pavel explains recursion to Larry and Heidi.



Teachers learn how to teach their students.





STEM with Plasm

Geometry, CAD, Fractals, Molecules, Conic Sections...





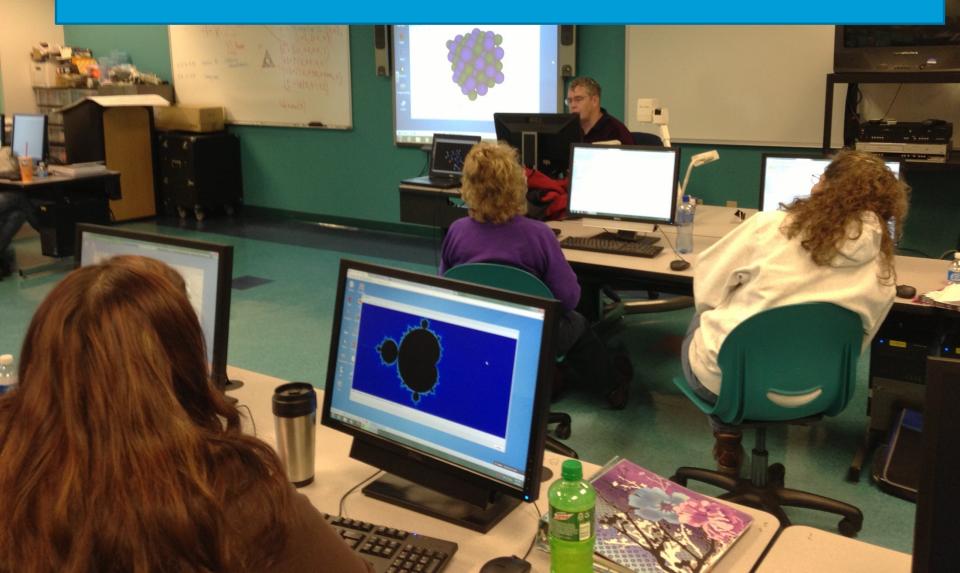
College of Science University of Nevada, Reno



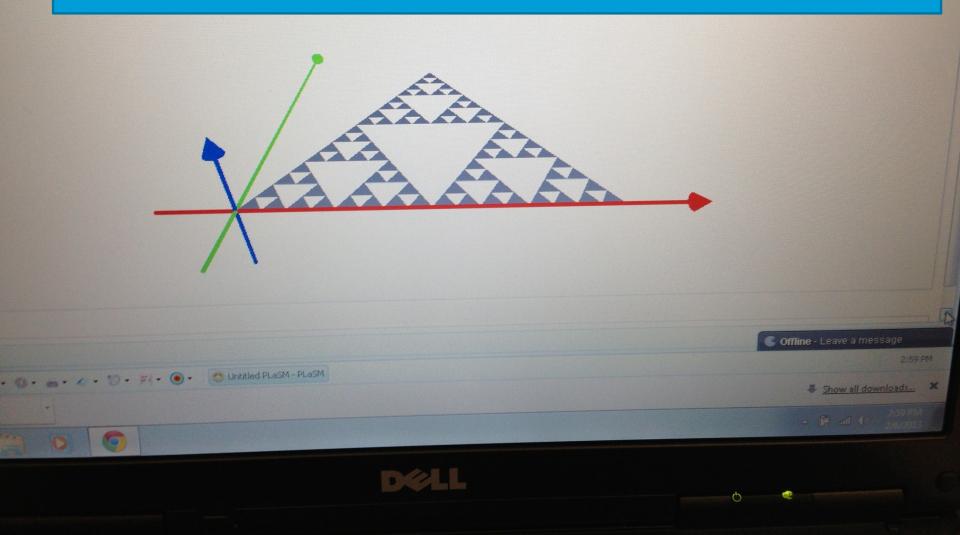
"These plastic kits will no longer be needed with new NCLab's 3D molecular design module."



Sarah explores the Mandelbrot set. Ed is showing a salt crystal created in PLaSM..



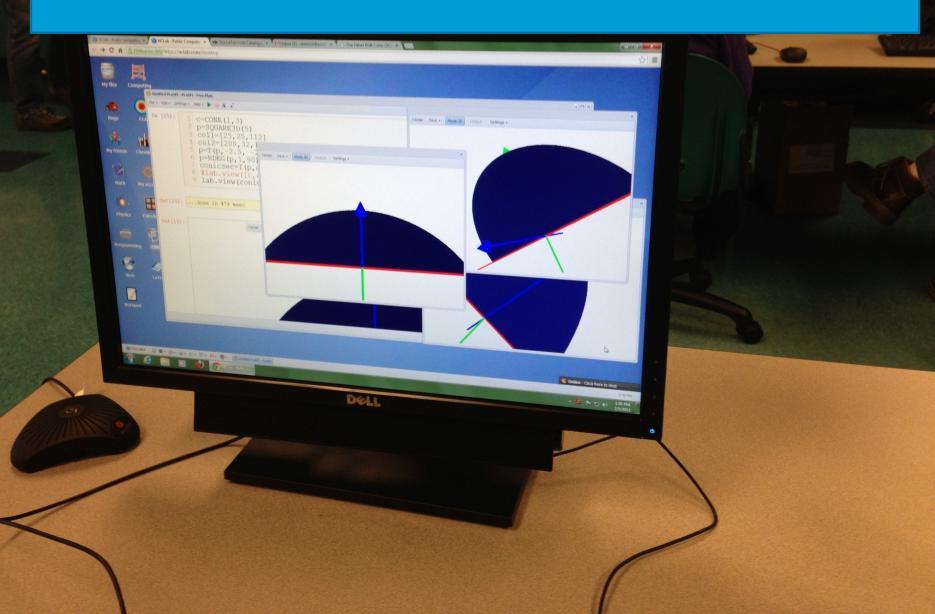
The Sierpinski Triangle fractal took 8 lines of code!



A A

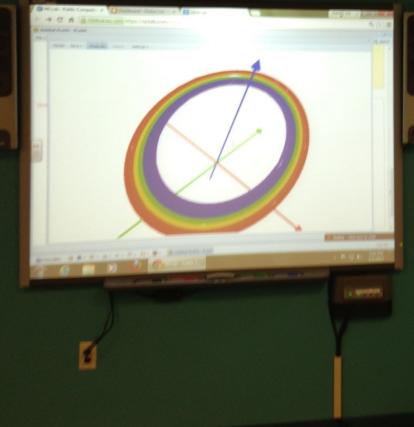
C

Conic sections.



Pavel creates a rainbow.







Roni is sorry Karel does not have a girlfriend, so she creates one in PLaSM.

<pre>4 1=T(1,0,.5,0) 5 r=BRICK(.5,.5,2) 6 r=T(r,0,5,0) 7 b=CUBE(1) 8 s=SPHERE(.5) 9 s=T(s,2.5,1,-6) 10 t=SPHERE(.75) 12 o=SPHERE(.75) 13 o=T(o,.75,.75,-2.6) 14 e=SPHERE(.5) 5 e=T(e,2.5,-1,-6) 16 col4=[10,200,10] 17 b=T(b,5,1,-6) 16 col4=[10,200,10] 19 d=CONE(2,4) 20 d=RDEG(d,1,180) 21 col1=[200,0,50] 22 col2=[0,100,100] 23 col5=[0,0,0] 24 m=SPHERE(.5) 25 m=S(m,1,.5,1) 26 m=T(m,1.75,0,-5) 27 b=DIFF(b,m) 28 #f=I(c,d) 29 #e=DIFF(c,d) 20 #f=I(c,d) 21 ab.view([c,col1],[d,col2],[r,col3],[1,col3],[s,col4],[e,col4],[m,col5],[t,col2],[o,col2])</pre>		
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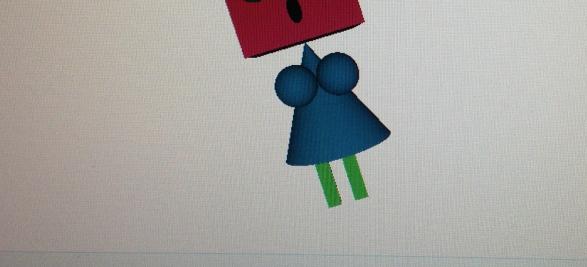
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🕼 🔹 🔁 🔹 🥌 Untitled PLaSM - PLaSM

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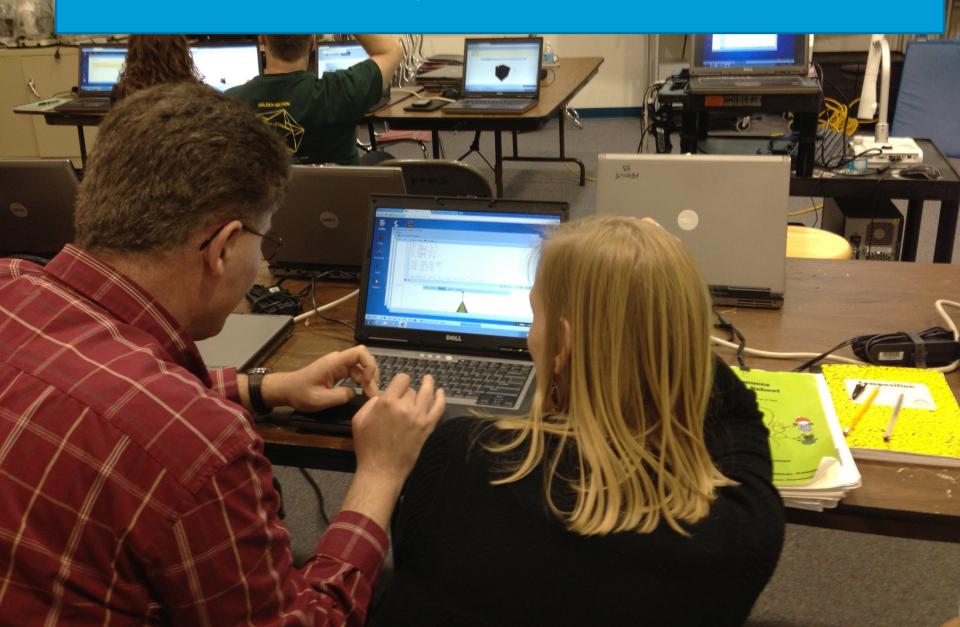
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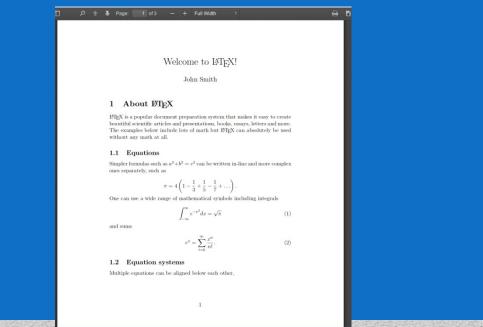
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Pa

Pavel is showing conic sections to Heidi.





Composing with Latex

Letters, Rubrics, Lesson Plans, Reports...





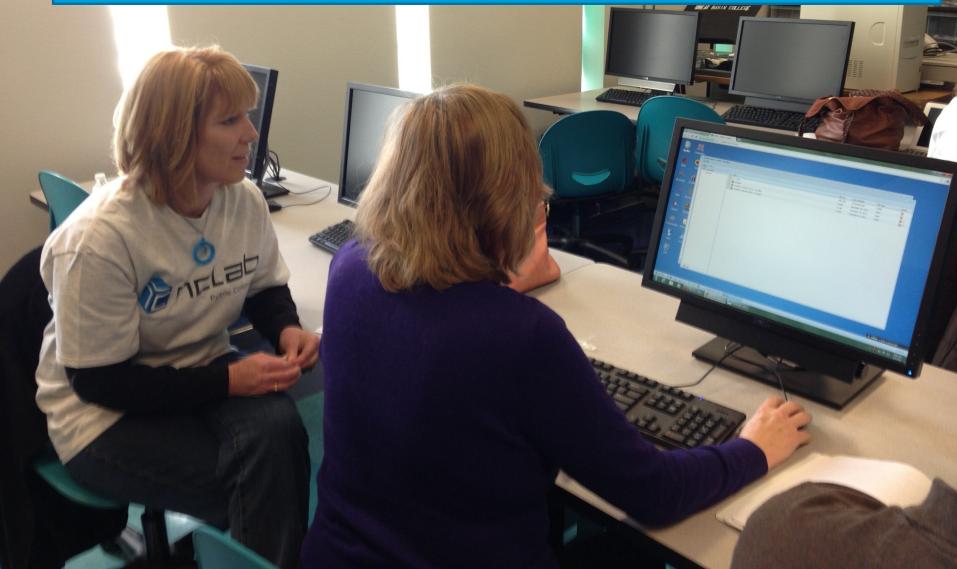
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Cammie, Jan and Heidi: LaTeX is cool!



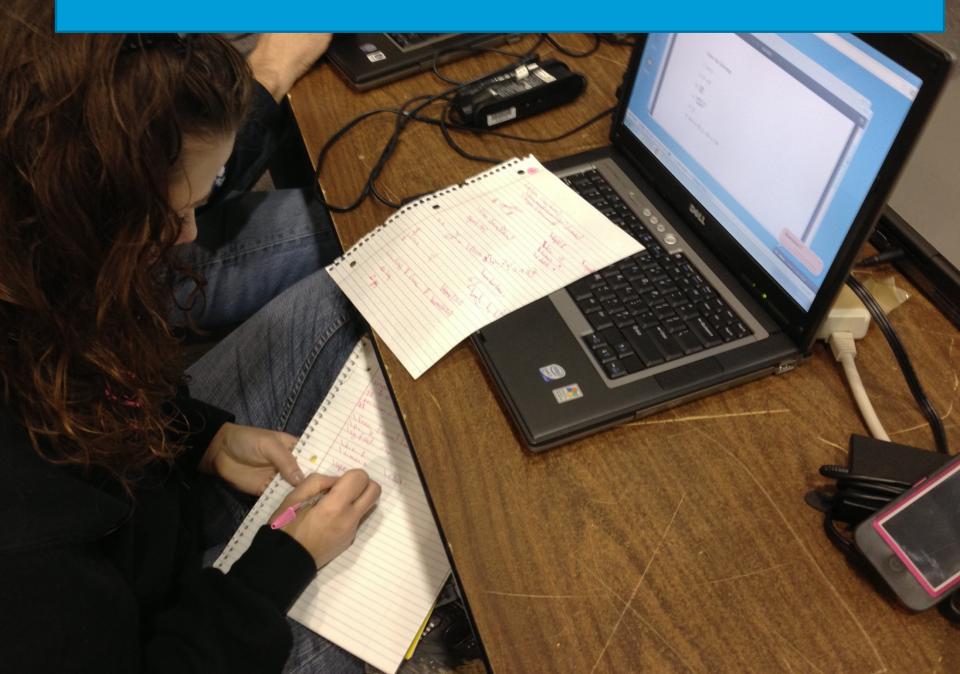
Val is explaining to Deb how to clone projects from NCLab's public database.



Holly shows Bill where to find more online tutorials for LaTeX. Bill loves LaTeX for its ability to render nice chemical formulas.



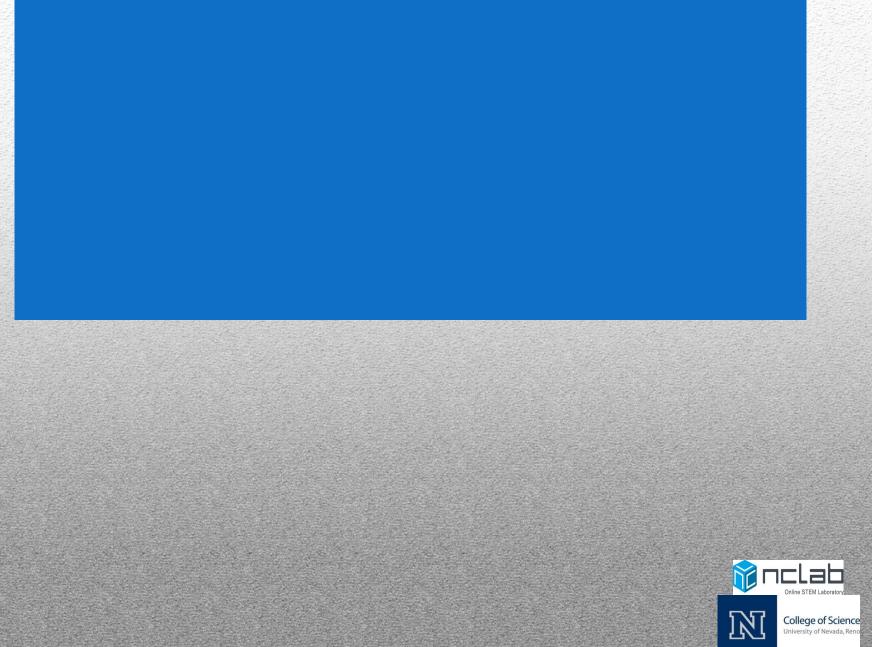
Roni is adjusting the demo script for use in her geography class.



Roni and Jim learn equations and enumerated lists.

- Carter





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