Teach Your Kid to Code Outline

## Introduction

* PPT

## Demo #1 – SmallBasic Turtle (Justin)

* Turtle Show and Move
* Finish Square
* Speed = 9
* PenColor first; thenRun; then PenWidth
* Loop
* Random Color
* Convert to Circle
* Publish to Internet
* New Program
* MouseDown -> Sub MouseClick
  + Turtle.MoveTo(GraphicsWindows.MouseX, GraphicsWindows.MouseY)
* PPT

## Demo #2 – SmallBasic Console Calculator

* Enter first number – write back out to window
* Enter second number
* Show adding the 2 numbers
* Add Operators – Snippet: “calc-operations.sb”
* PPT

## Demo #3 – Visual Studio Express Calculator (Steve)

* Show the “Equals\_Click” code is virtually identical to SmallBasic code

## Demo #4 – Show Various Small Basic Demos

* Paddle Game – Snippet: “ball game.sb”
* Logos Quiz – Snippet: “logos quiz.sb”
* Pentagon – Snippet: “small basic challenge4.sb”
* Tetris – Snippet: “tetris.sb”

## Demo #5 – Kodu

* Open blank world
* Add **hills** and **trees** and Kodu
* Run game – show nothing happens
* Add Kodu arrow key **movement** and **jumping**
* Run game – show movement
* Show that it can go faster and **change speed**
* Add several **apples**
* Run game – showing nothing happens when apple bumped
* When apple bumped:
  + Eat it
  + Play Sound
  + Thought balloon: “That tasted good!”
* Run game
* Add **Points** when eating apple
* Steve: Introduce “coins” concept
* Page 2
  + Eat It, Play “Win” Sound, Thought Balloon, Score, Switch back to Page 1
* Show that new line of code has to be before old lines
* Add “spooky” sound and glowing for **coin**
* Show the glowing and spooky sound do **NOT** happen – fix bug
* Steve to review while spooky sound playing