QND Computer Science Day 12

Mr. Schmidt

Today

- Final Project
- Functions

Final Project

- Download the Turtle Template from my website

- Make some art!

  - Whatever you want!

  - Keep it appropriate!

  - Think Etch a Sketch, not Mona Lisa

- Submit code on Thursday

- On Friday, we'll do a little show and tell

  - If we're not working hard, we can do a final exam

Turtles!

- Create a turtle

- Lots of ways to move it around!

```
let turtle = turtleConsole.addTurtle()
turtle.penDown() // start drawing
turtle.forward(100) // move turtle 100 units forward
turtle.penUp() // stop drawing
```

Turtles (continued)

- Check the README for details on other Turtle functions
- lineColor, fill, arcs, thickness

Functions

- We've used them before!

- DRY coding

- Keep things organized

```
func l() {
    turtle.arc(radius: scale * 15, angle: 80)
    turtle.forward(scale * 85)
    turtle.arc(radius: scale * 5, angle: 190)
    turtle.forward(scale * 82)
    turtle.arc(radius: scale * 15, angle: 90)
}
```

Turtle Project Requirements

- Put in a solid effort

- Use at least one custom function