CoderDojo Athenry

EXPLORERS

Code and Notes by Martha Fahy, 2019

CoderDojo Athenry
"Above all, be cool"

Every week:
- ✓ Sign in at the door

If you are new:
- ✓ Fill in Registration Form
- ✓ Ask a Mentor how to get started

Make sure you are on the Athenry Parents/Kids Google Group: email coderdojoathenry@gmail.com

Weekly Reminders

- **Fire exit doors/main doorways must be kept clear AT ALL TIMES**

- **In the case of an emergency , please proceed in a calm and orderly manner to the nearest Exit and go to your Assembly Point**

Do NOT take anything with you
If you have a child in another room, do NOT go to them, a Mentor will look after them

- **Please leave passageways between desk and keep CLEAR at all times**

THINK SAFETY FIRST!

- **If power cable goes across passageways – must be TAPED DOWN ask mentor for tape**

- **ONLY NINJAS** need a table - parents, please only use a chair

- **If FIRST AID is required please alert a Mentor**

There are a number of trained first responders on site every week

€2

Coffee / **Tea** +

Help us cut down on Single Use Cups

Bring your own cup (must have lid)

€1.50

 +

AnalyzeIQ-... RamanLib_A... Software License and ... wifi.txt TaxResident... Movies

House.xlsx Scratch Deskto... AnalyticalL... ActivitityCo... Analyze IQ Software...

relax&rewar...

AnalyzeIQ-... Mailout MasterList ... SSL-Cert+H... analyzeiq_com

JavaDojo18...

NirscanNan... Explorers 2019 - 2020...

Recycle Bin

MICHAEL MADDEN

LicenseActi...

Accounts Reseller Agreement Master 3.0 OceanOpti... Martha Analyze IQ

Graphics RealTime... Gift ForensicLab Texas Instruments Apple

Explorers School MarthaHome

Type here to search

ENG 12:32 18/09/2019

File Management

Programming Languages

- **Tell computer how to perform tasks**
- **C, C++, Java, Visual Basic, Python, JavaScript, PHP, HTML5**

```java
public static void calcWages()
{
    double rate, hrs, wage, over, total;

    rate = askForNumber("Enter Hourly Rate:");
    hrs = askForNumber("Enter Hours Worked:");

    if (hrs <= 40) {
        wage = rate * hrs;
        over = 0;
    }
    else {
        wage = rate * 40;
        over = (hrs - 40) * 1.5 * rate;
    }
    total = wage + over;

    JOptionPane.showMessageDialog(null, "Total wages are " + total);
}
```
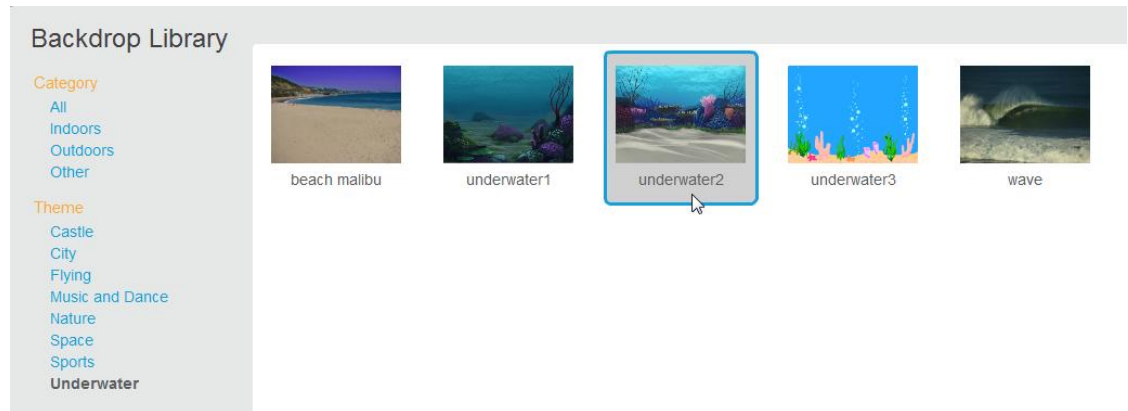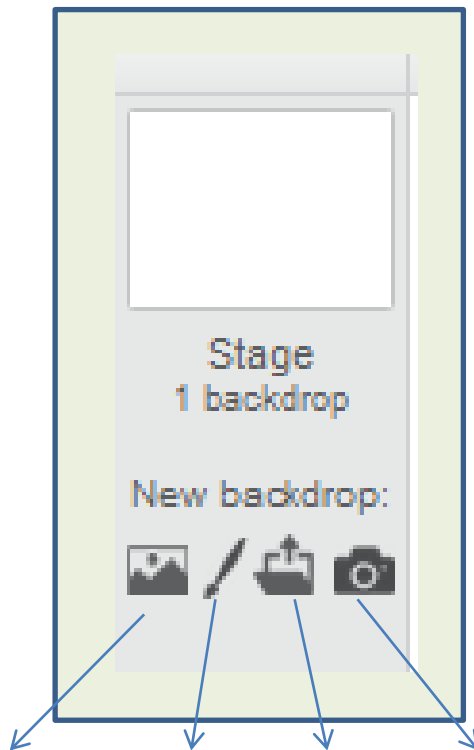
Some Java Code

Scratch Interface
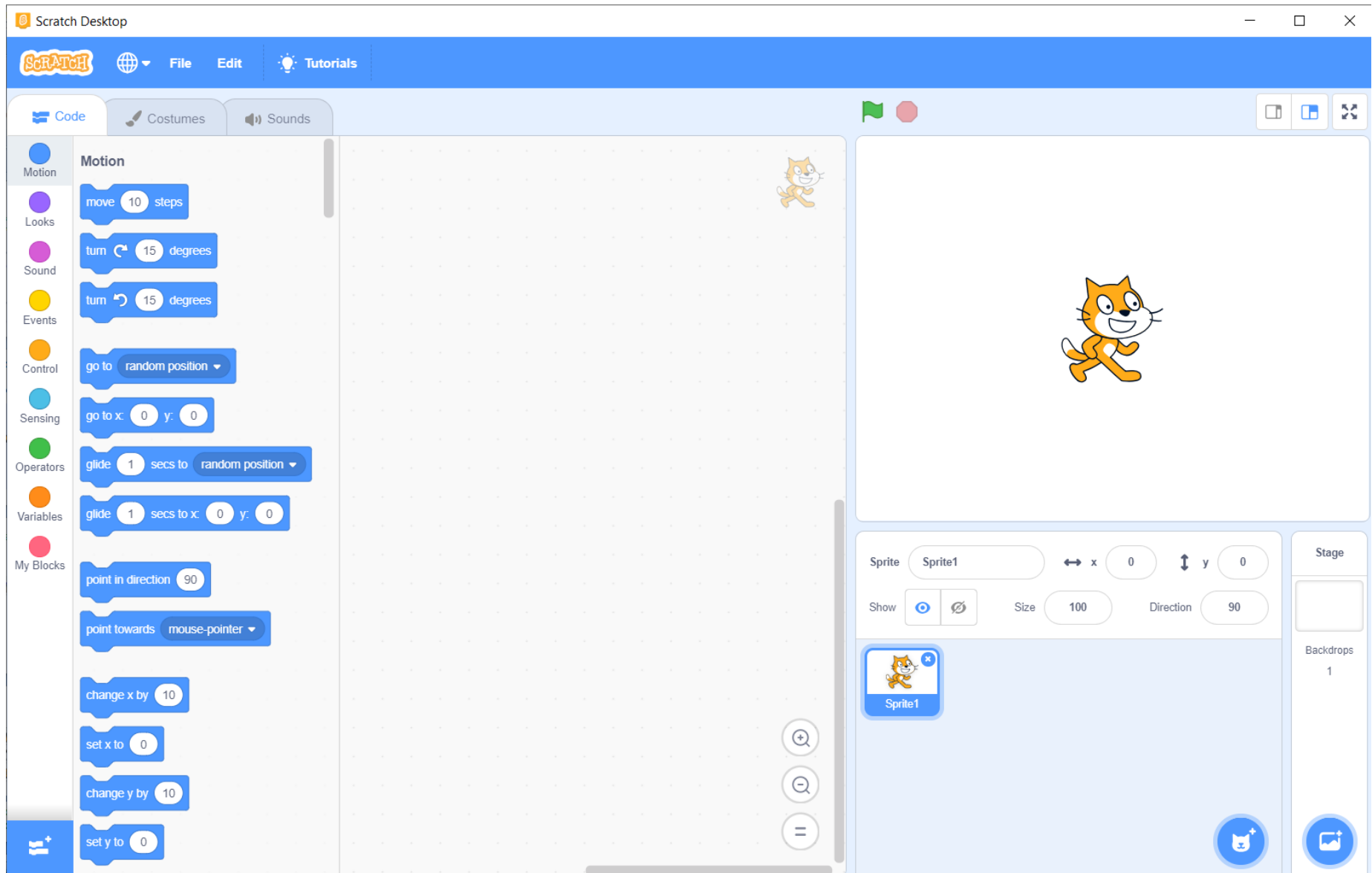
Today's Ninja Challenge:
Write Your **First** Piece of Code!
Animate your Name

Change the Background

New sprite: Choose sprite from library

New Sprite:
Select from existing designs

Tip:
Default size is big relative to stage: this shrinks it

Sprite Library

Category
All
Animals
Fantasy
Letters
People
Things
Transportation

Theme
Castle
City
Dance
Dress-Up
Flying
Holiday
Music
Space
Sports

Awesome!   Text

A   A-block

B   B-block

C   C-block

D   D-block

E   E-block

H   H-block

I   I-block

J   J-block

K   K-block

L   L-block

M   M-block

P   P-block

Q   Q-block

R   R-block

S   S-block

T   T-block

U   U-block

Create a Sprite for Each Letter of Your Name

Some ideas

when this sprite clicked

change color ▼ effect by 10

say Hello! for 2 secs

change y by 30
wait 1 secs
change y by -30
set mosaic ▼ effect to 30

play sound computer beeps1 ▼

change size by 50
wait 1 secs
change size by -50
forever
  change color ▼ effect by 25

change size by -50
wait 1 secs
change size by 50
forever
  change color ▼ effect by 30

At the End ...

Upload your project to the Scratch Website

Access it from home ✓

Improve it ✓

Show your friends! ✓

Uploading to Scratch Website

Share to Scratch Website

Project name: KnockKnock

Your Scratch name: cdexplorers1920

Password: explorers1920

OK

Keep In Touch!

coderdojoathenry@gmail.com

@coderdojoathenr

zen.coderdojo.com/dojo/53