Final Project UML Diagrams
Once Upon a Loaf (TBD)

### Woo.pde

#### Instance Variables

_	Hansel	hansel
_	Gretel	gretel
-	PImage	gretel

PImage gretelImages[]int gretelFrames

- PImage hansel

- PImage hanselImages[]

int hanselFrames

boolean upboolean downboolean left

- boolean right

#### Methods

+ void setup()
+ void draw()

+ void keyPressed()
+ void keyReleased()

### Background.pde

#### Instance Variables

- Bush bush - Tree tree - Water water - Rock rock

#### Methods

+ void forest()
+ void lagoon()
+ void witchHouse()

+ void witchKitchen()

+ void home()

+ void maze()

## Tree.pde extends Background

#### Instance Variables

int xCorint yCor

#### Methods

+ Tree(int, int)
+ boolean collision()
+ int getXCoor()
+ int getYCoor()

### Bush.pde extends Background

#### Instance Variables

int xCorint yCor

#### Methods

+ Bush(int, int)

+ boolean touching()

+ void spawnMonster()

+ int getXCoor()
+ int getYCoor()

### Kid.pde

#### Instance Variables

String \_name \_health int int strength int xGret int yGret float xGspeed float yGspeed boolean gretLeads int xHans int yHans float xHspeed

> yHspeed hansLeads

float

boolean

```
int
                currentFrame
     int
                loopFrames
     int
                offset
     int
                delay
Methods
                Kid()
                Kid(int, int)
+
     int
                getHealth()
+
     int
                getStrength()
                setHealth(int)
     void
+
     void
                setStrength(int)
+
     void
                attack()
+
     void
                superMove()
     void
                whoLeads()
+
     void
                display()
+
```

# Hansel.pde extends Kid

#### Methods

void

+ Hansel(String, int, int)

walk()

+ void superMove()

### Gretel.pde extends Kid

#### Methods

+ Gretel(String, int, int)

+ void superMove()

### Monster.pde

### Instance Variables

int \_healthint \_strengthQueue moveList

### Methods

+ Monster()

+ Monster(int, int)

+ int getHealth()
+ int getStrength()
+ void setHealth(int)

```
+ void setStrength(int)
```

+ void attack()

# Witch.pde extends Monster

#### Methods

+ Witch(String, int, int)

+ void superMove()

# Wolf.pde extends Monster

#### Methods

+ Wolf(String, int, int)

+ void superMove()