Do The Parameter

Ian Scheffler

3:59

Do Now

Definition:
 + A parameter is a variable in a function declaration

Criteria for Success:
 + Allow for parameters to change value
 + Include the idea that parameters pass input to a function

Example: A parameter is like the game of hot potato, since you pass the potato to each other, the same way parameters pass input to functions

What is a parameter?

How is the hopper in minecraft similar to and different from parameters?

Quick Review: Parameters vs. Arguments

Parameters…

+

Arguments:

+

Let's Dance!

```
function clap(n):

  clap your hands n times

function snap (n):

  snap your fingers n times

function shimmy (n):

  shimmy your shoulders n times

function speak(n):

  pronounce n aloud
```

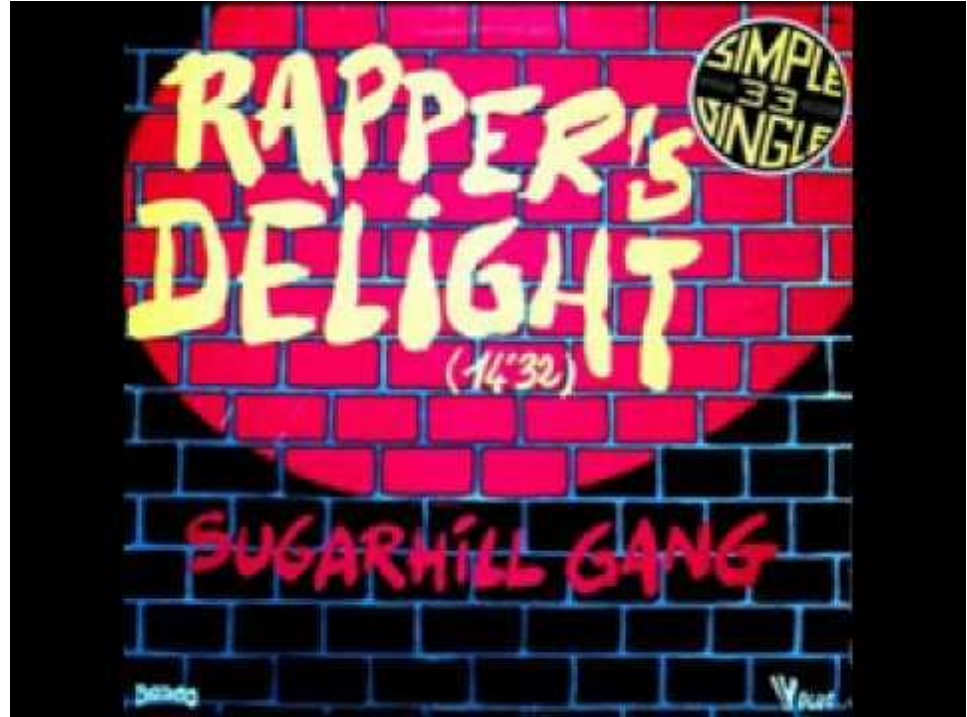snap(5) means to snap your fingers 5 times in a row, while

```
snap(5)

clap(1)
```

means to snap 5 times in a row, then clap once, while

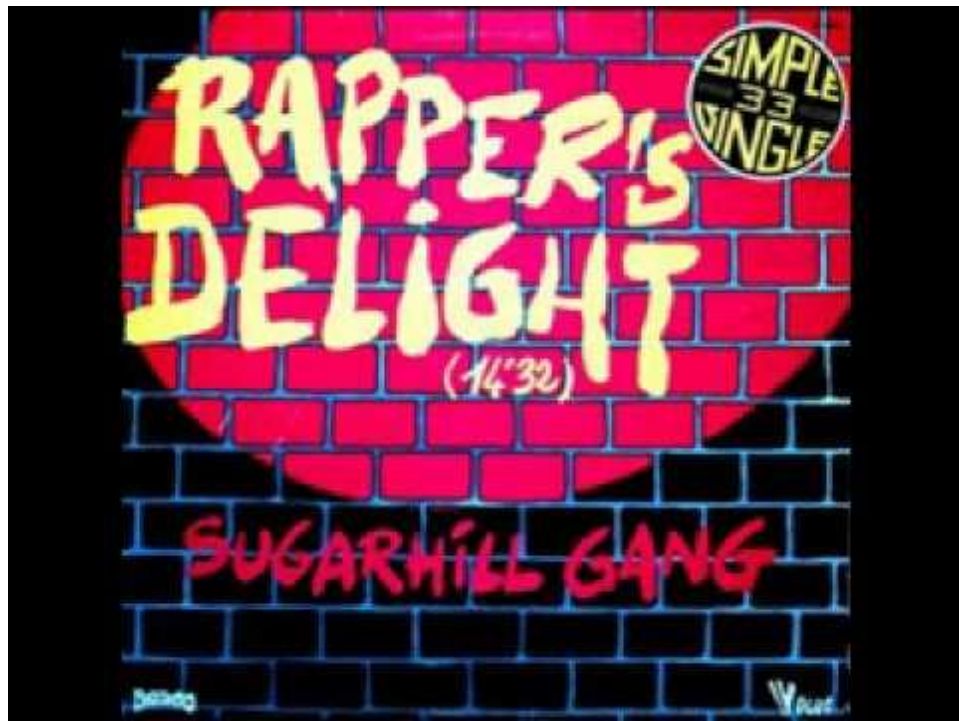# Dance #1

```
def dance1(n):
    snap(n)
    shimmy(n)
    clap(n)
     speak(n)
```

Dance #2

```
def dance2(n)

    for i in range(n):

        snap(i)

        shimmy(i)

        clap(i)

        speak(i)
```

Dance #3


```python
def dance1(n):

    snap(n)

    shimmy(n)

    clap(n)

    speak(n)
```

```python
def dance2(n)

    for i in range(n):

        snap(i)

        shimmy(i)

        clap(i)

        speak(i)
```

```python
def dance3(n):

    dance1(n)

    dance2(n)
```

Now, You make one!

Choreograph your *own* dance!

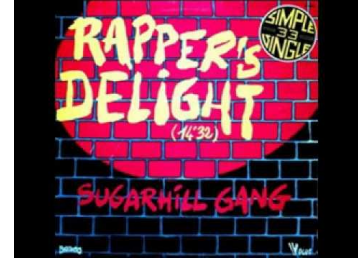You can use the functions on the previous slides *or* make your own!

Up for a challenge?

+ Incorporate a loop!
+ Call a function *within* a function!

Criteria for Success:

+ Your dance must use movements that EVERYONE can do!
+ Your dance MUST involve the use of parameters!

Test yourselves!

1) Pair up with another group!
2) Share your choreography with each other!
3) You have FIVE minutes to rehearse!

As you perform for the other group, they will assess *how well* you implemented the program!

Criteria for Success:

+ Can you execute the choreography correctly?

Exit Ticket

What are three things you learned today?

What are two things you found interesting?

What is one question you still have?

Please respond on an index card!