123 Coding Cards

Python 3
Beginners Level

Updated for Scratch 3
and the new EduBlocks

edublocks.org

123 Coding Cards

Getting Started

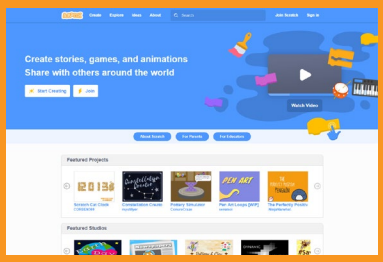
Before you get started with these cards, you need to make sure you're all setup.

You will need:

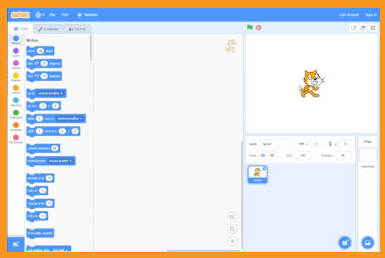
- PC, Mac or iPad
- Internet Connection
- Web Browser

Scratch Setup

Go to scratch.mit.edu



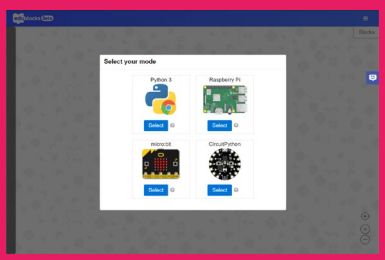
Click on Create



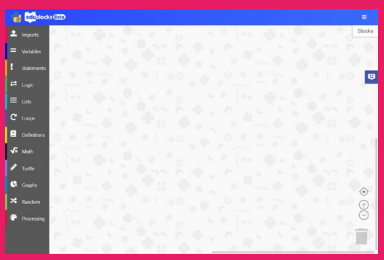
You're all setup!

EduBlocks Setup

Go to app.edublocks.org



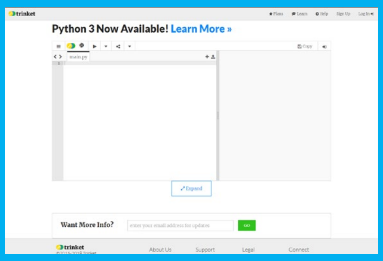
Select Python



You're all setup!

Python Setup

Go to trinket.io/python3

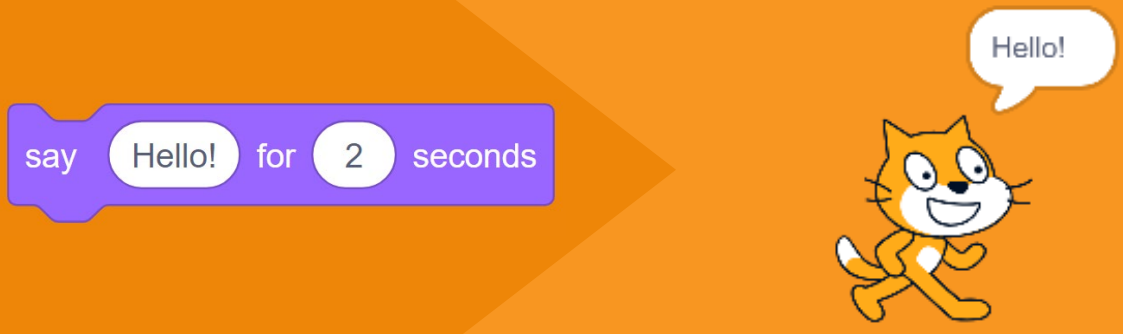


You're all setup!

123 Coding Cards

1: Say Hello!

1 Scratch



2 EduBlocks

```
import time
print(" Hello! " )
time.sleep( 2 )
```

Hello!

3 Python

```
import time
print("Hello!")
time.sleep(2)
```

Hello!

How to run your code:

Scratch

Click the first block

EduBlocks

Run

Click the Run Button

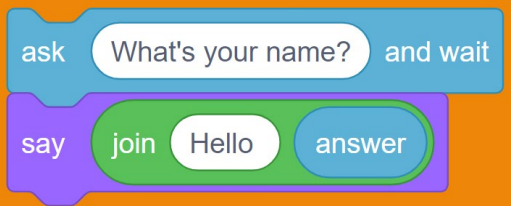
Python

Press Play

123 Coding Cards

2: Ask a Question

1 Scratch





2 EduBlocks



What is your name? George
Hello George

3 Python

```
name = input("What is your name?")
print("Hello " + name)
```

What is your name? George
Hello George

How to run your code:

Scratch



Click the first block

EduBlocks



Click the Run Button

Python

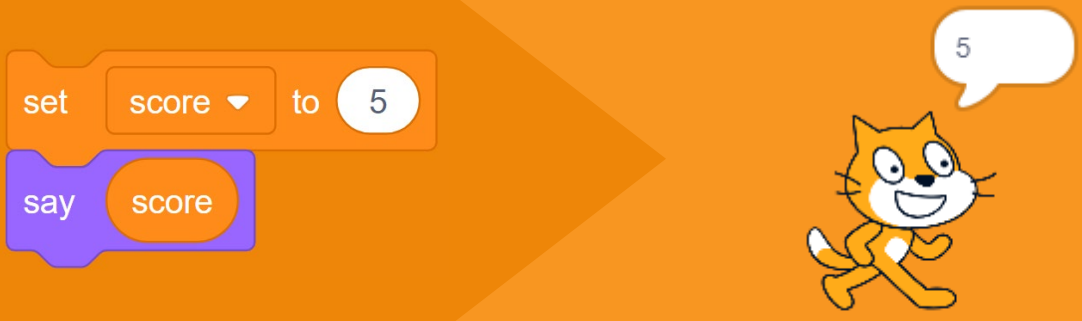


Press Play

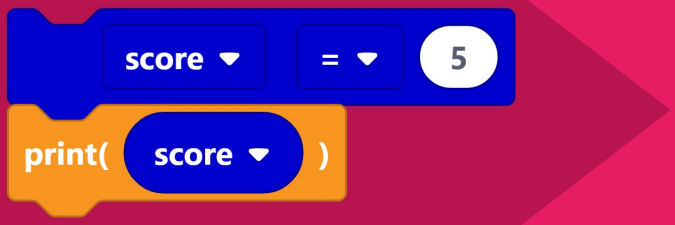
123 Coding Cards

3: Variables

1 Scratch



2 EduBlocks



5

3 Python

```
score = 5
print(score)
```

5

How to run your code:

Scratch

Click the first block

EduBlocks



Click the Run Button

Python



Press Play

123 Coding Cards

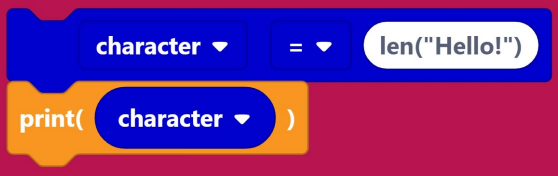
4: Character Count

1 Scratch





2 EduBlocks



6

3 Python

```
character = len("Hello!")
print(character)
```

6

How to run your code:

Scratch

Click the first block

EduBlocks

Run

Click the Run Button

Python

Press Play

123 Coding Cards

5: Forever loop

1 Scratch



2 EduBlocks

```
import time
while True :
    print(" Hello World! " )
    time.sleep( 1 )
```

Hello World!
Hello World!
...

3 Python

```
import time
while True:
  print("Hello World!")
  time.sleep(1)
```

Hello World!
Hello World!
...

How to run your code:

Scratch

Click the first block

EduBlocks

Run

Click the Run Button

Python

Press Play

123 Coding Cards

6: Dice

1 Scratch



2 EduBlocks

```
import random
print( random.randint( 1,6 ) )
```

2

3 Python

```
import random
print(random.randint(1,6))
```

3

How to run your code:

Scratch

Click the first block

EduBlocks

Run

Click the Run Button

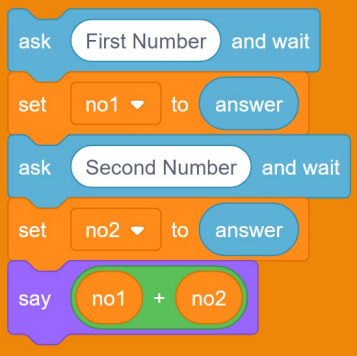
Python

Press Play

123 Coding Cards

7: Addition Calculator

1 Scratch





2 EduBlocks



7

3 Python

```
no1 = int(input("First Number"))
no2 = int(input("Second Number"))
print(no1 + no2)
```

7

How to run your code:

Scratch

Click the first block

EduBlocks

Run

Click the Run Button

Python

Press Play

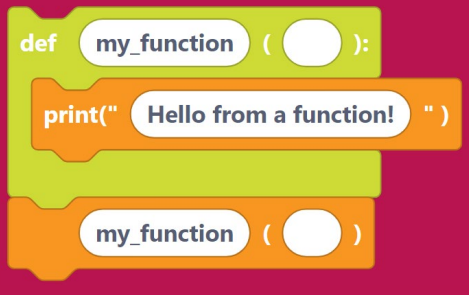
123 Coding Cards

8: Functions

1 Scratch



2 EduBlocks



Hello from a function!

3 Python

```
def my_function():
  print("Hello from a function!")
my_function()
```

Hello from a function!

How to run your code:

Scratch

Click the first block

EduBlocks

Run

Click the Run Button

Python

Press Play

123 Coding Cards

9: 10 Second Timer

1 Scratch



2 EduBlocks

```
import time
for i in range( 10 ):
    print( i )
    time.sleep( 1 )
```

```
0
1
2
3
4
5
6
7
8
9
```

3 Python

```
import time
for i in range(10):
    print(i)
    time.sleep(1)
```

```
0
1
2
3
4
5
6
7
8
9
```

How to run your code:

Scratch

Click the first block

EduBlocks

Run

Click the Run Button

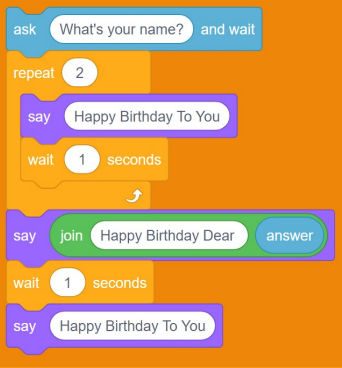
Python

Press Play

123 Coding Cards

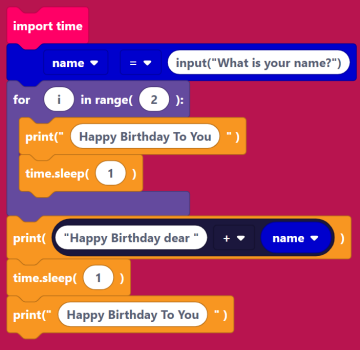
10: Happy Birthday

1 Scratch





2 EduBlocks



What is your name? **George**
Happy Birthday To You
Happy Birthday To You
Happy Birthday Dear George
Happy Birthday To You

3 Python

```
import time
name = input("What is your name?")
for i in range(2):
  print("Happy Birthday To You")
  time.sleep(1)
print("Happy Birthday dear " + name)
time.sleep(1)
print("Happy Birthday To You")
```

What is your name? **George**
Happy Birthday To You
Happy Birthday To You
Happy Birthday Dear George
Happy Birthday To You

How to run your code:

Scratch



Click the first block

EduBlocks



Click the Run Button

Python



Press Play