

# Loops

# Loops

Execute a block of code multiple times

Evaluate a boolean expression to define a limit

Repeat commands and automate tasks



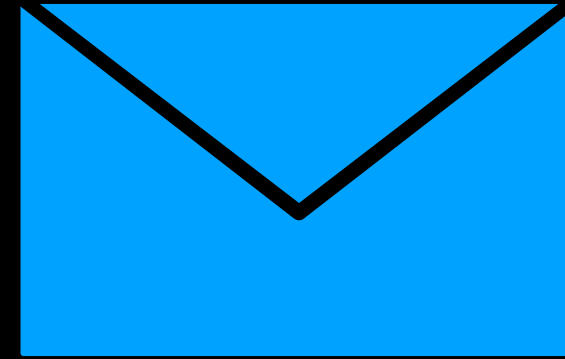
## for

Exécuter un bloc de code plusieurs fois

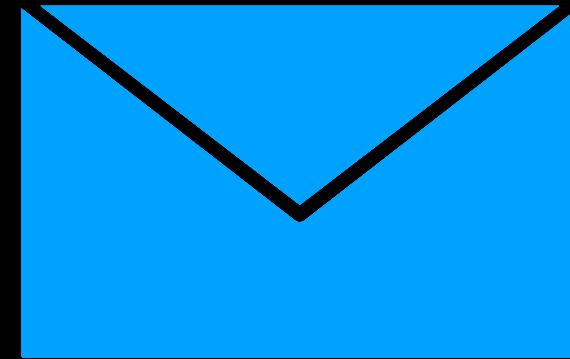
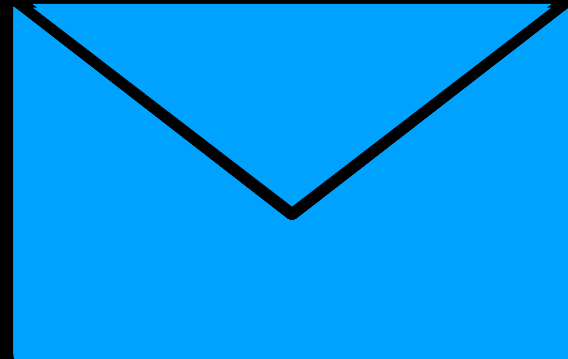
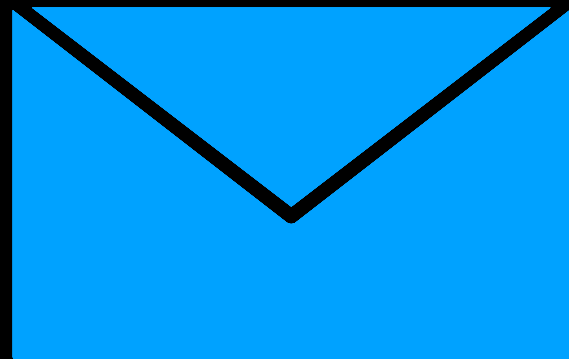
Évaluer une expression booléenne pour définir une limite

Répétez les commandes et automatisez les tâches

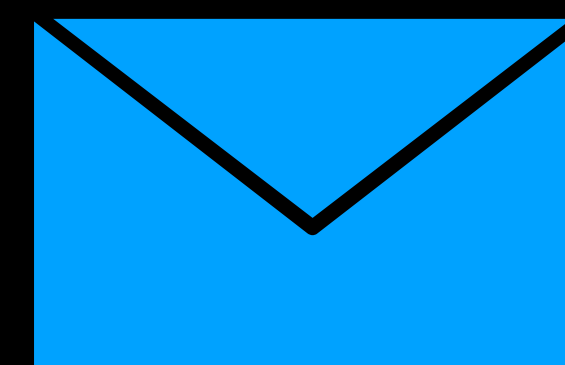
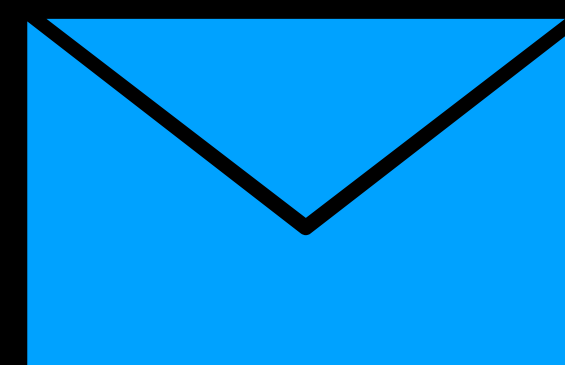
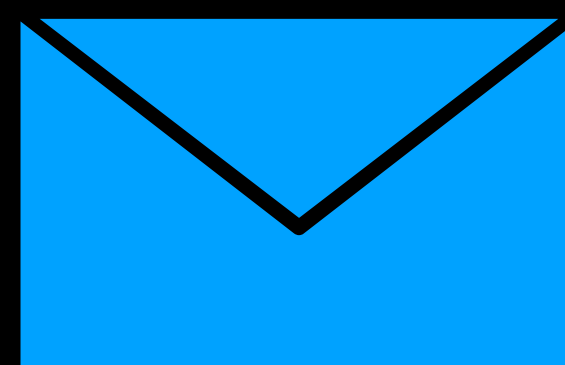
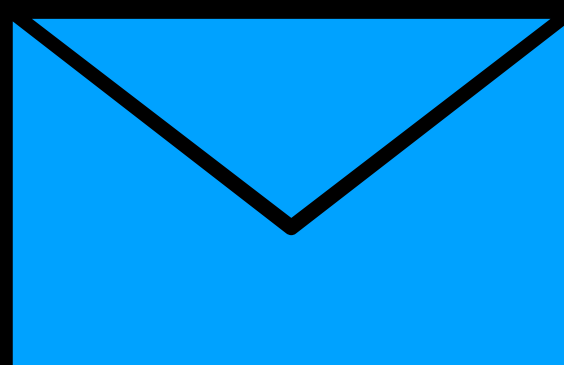
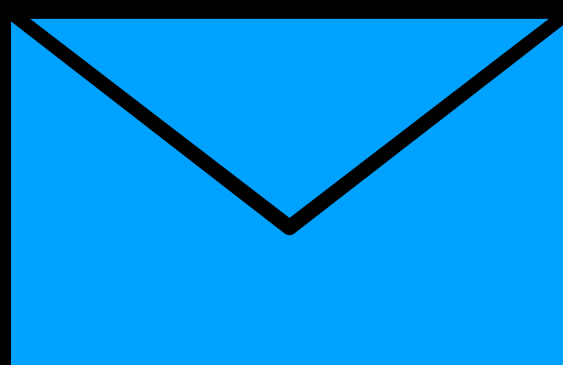
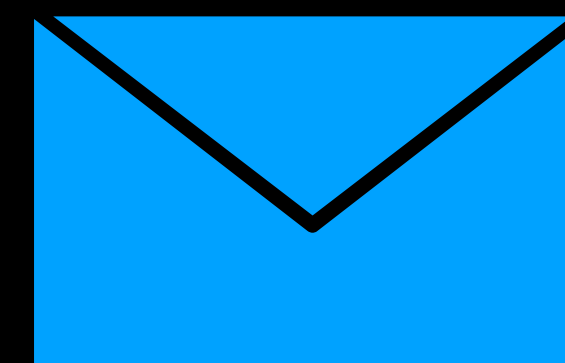
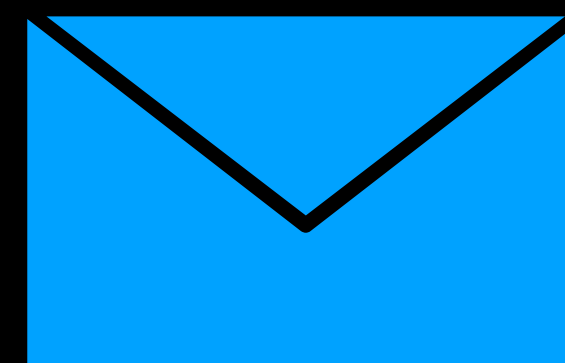
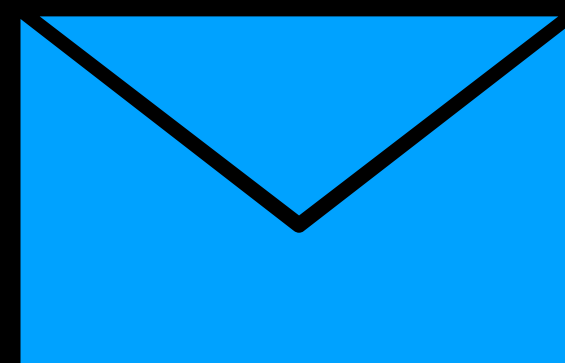
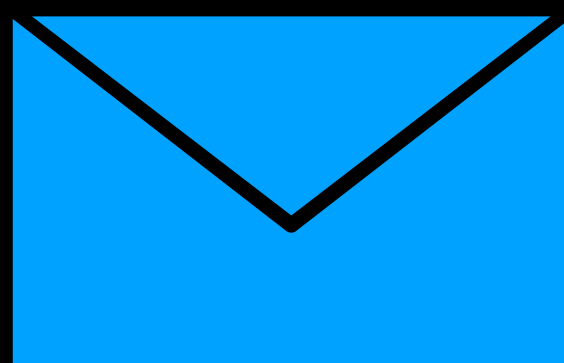
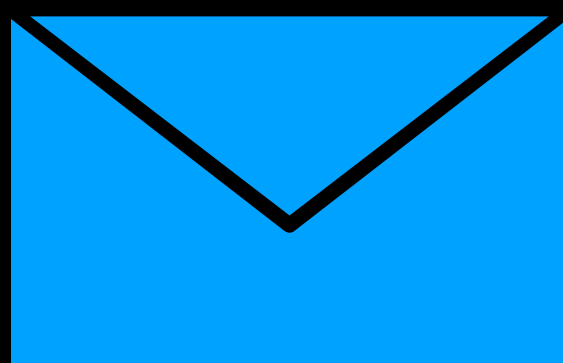
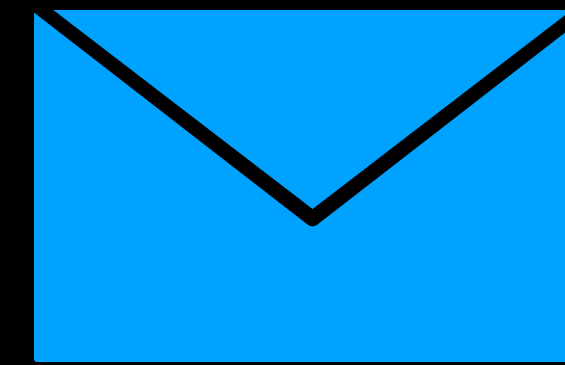
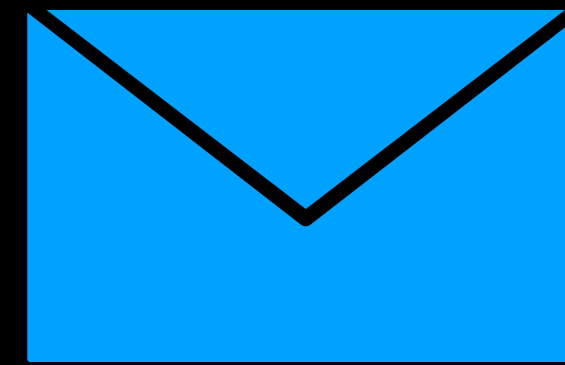
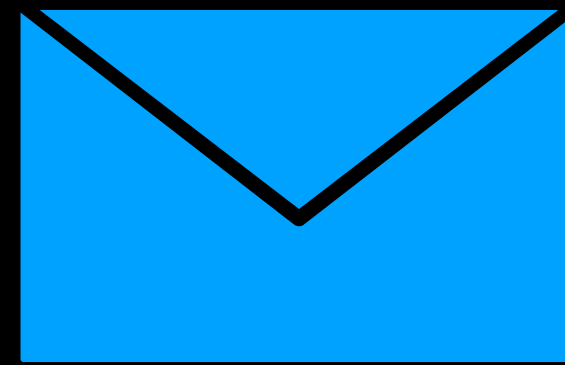
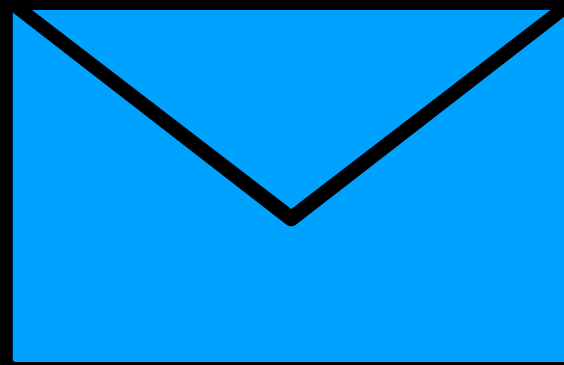
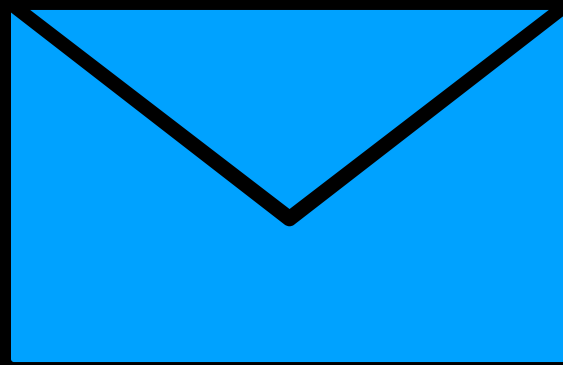
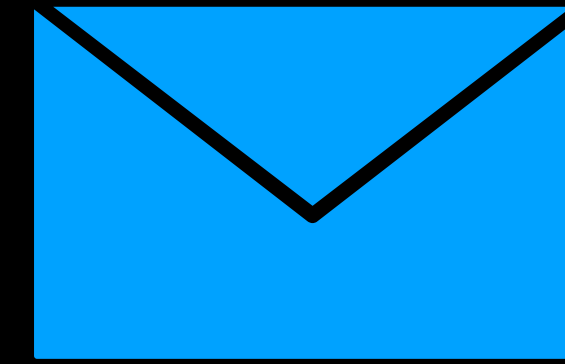
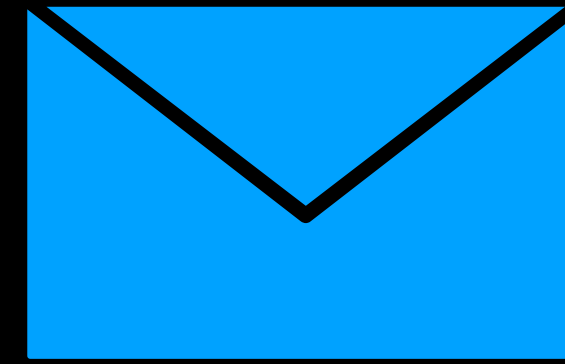
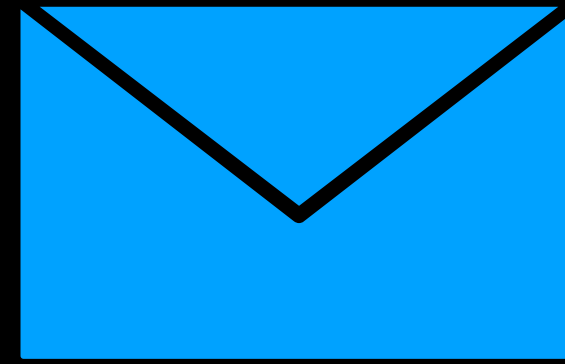
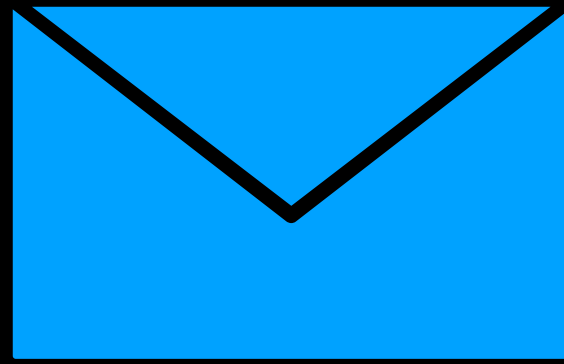
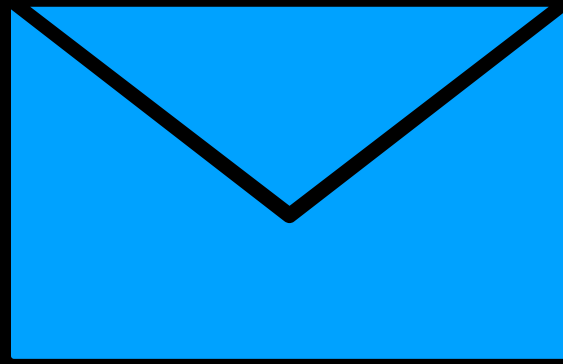
# Loops



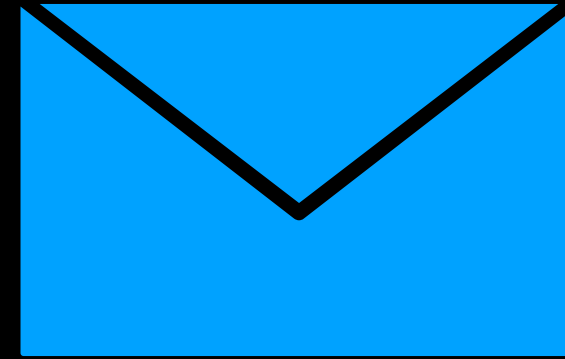
# Loops



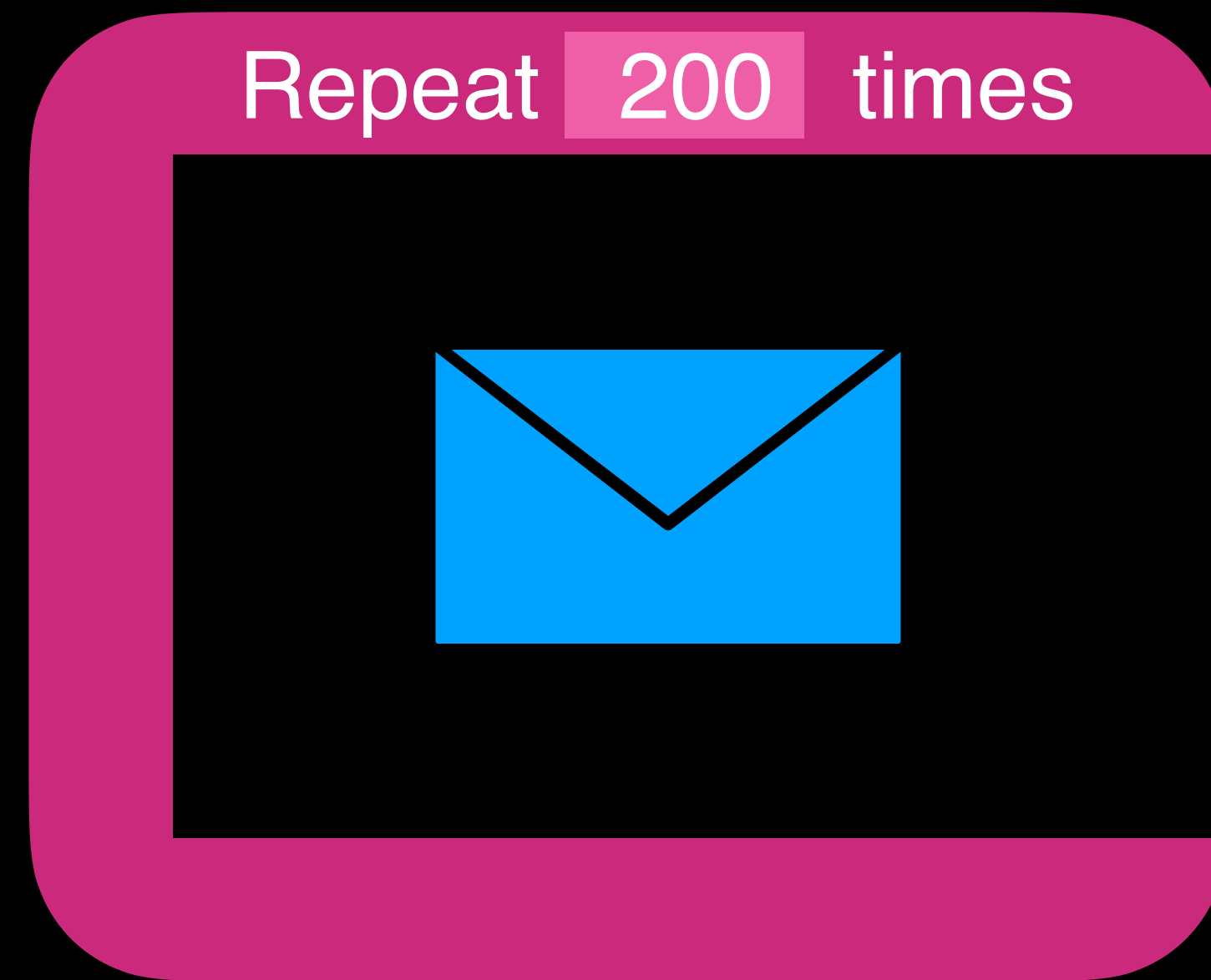
# Loops



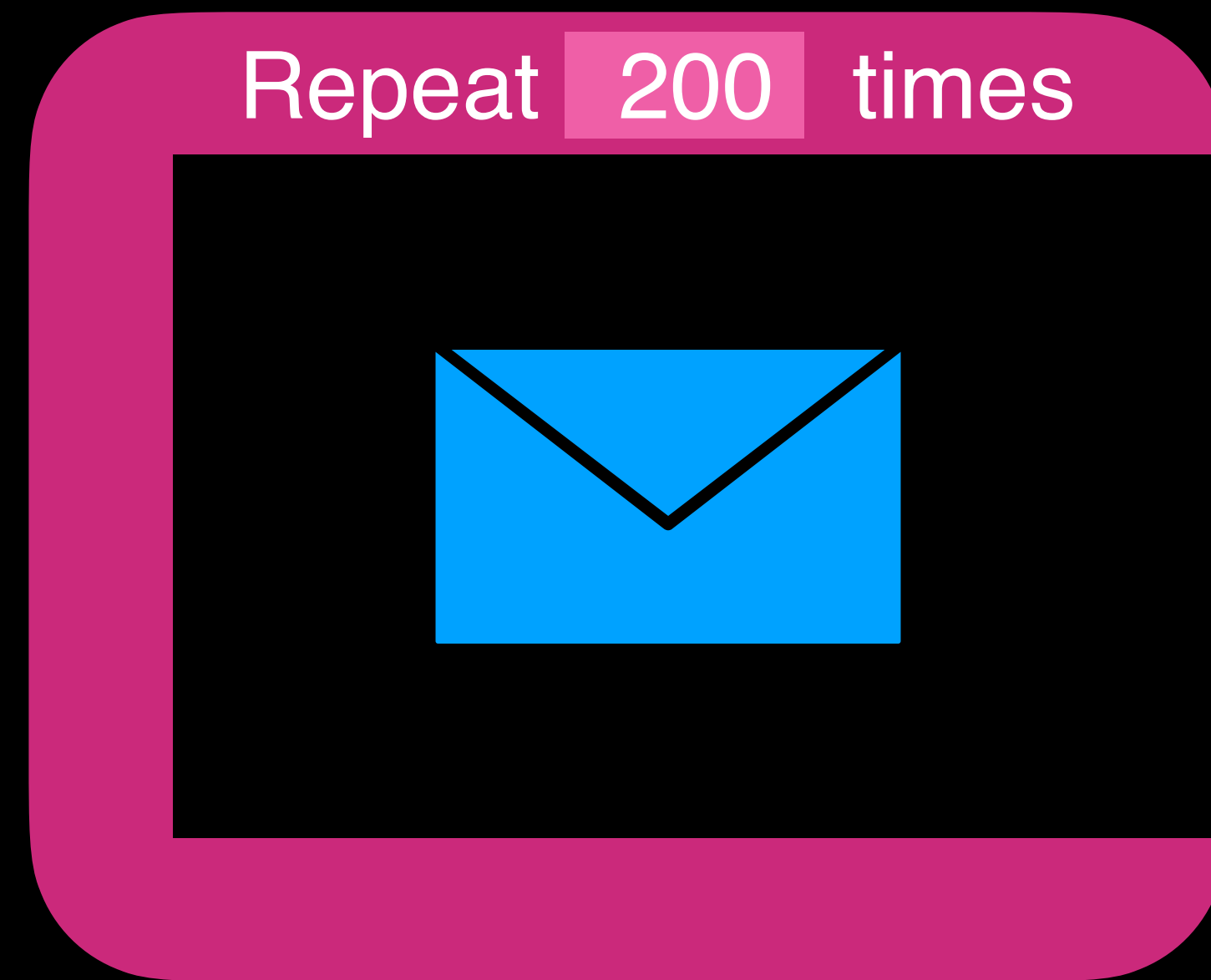
# Loops



# Loops

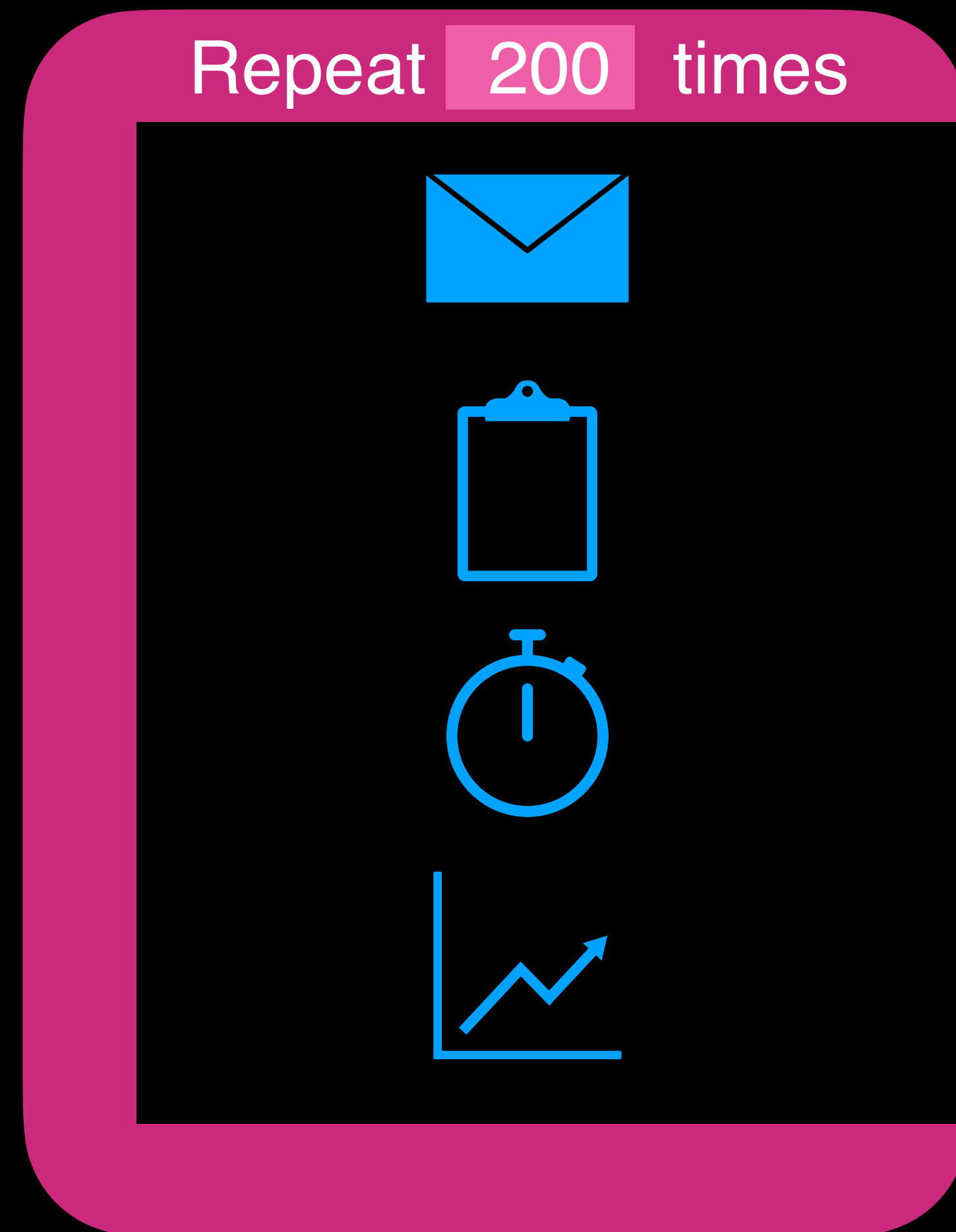


# Loops

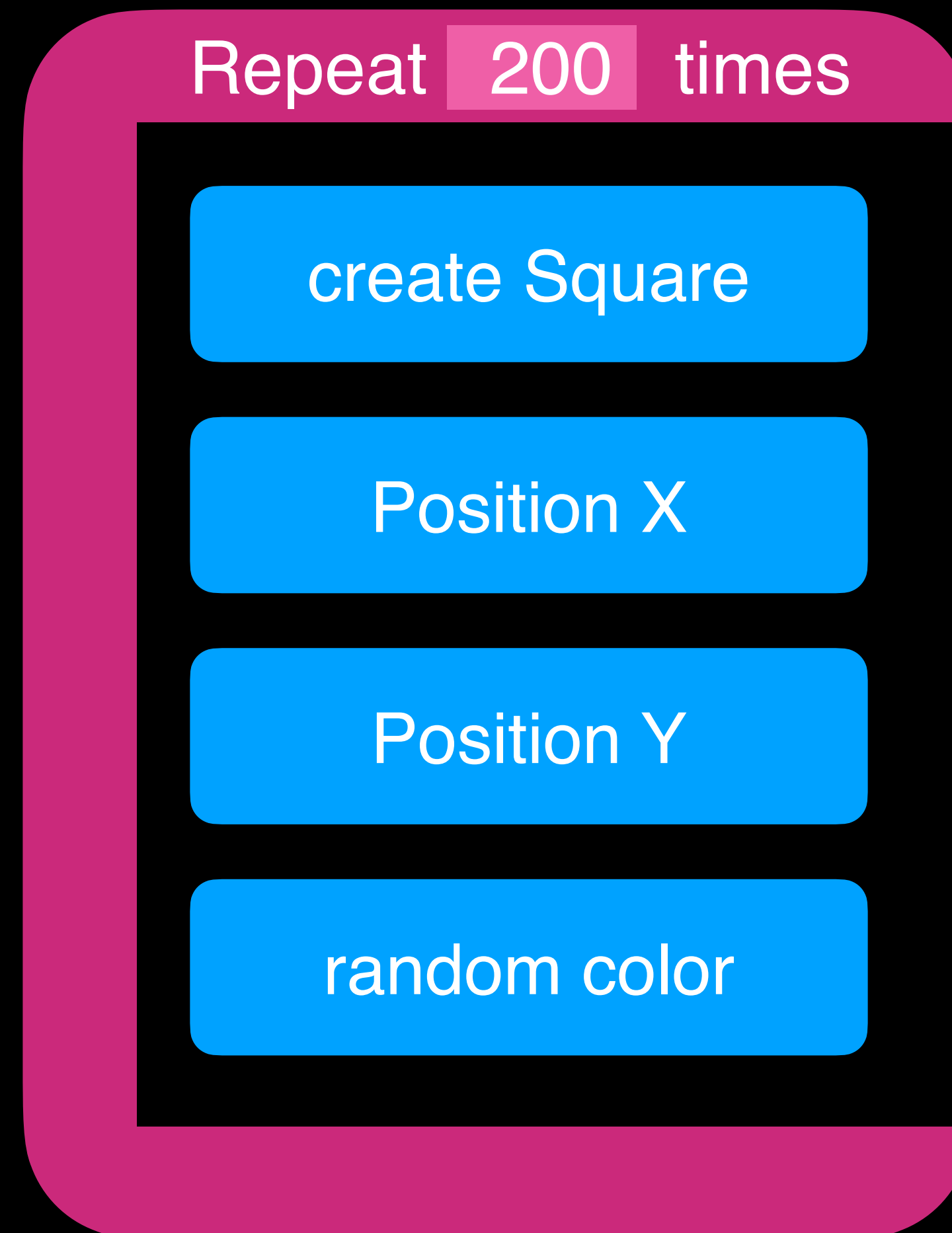


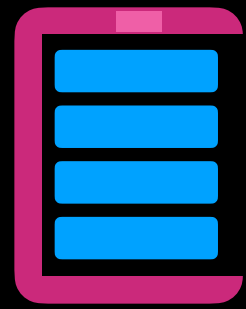


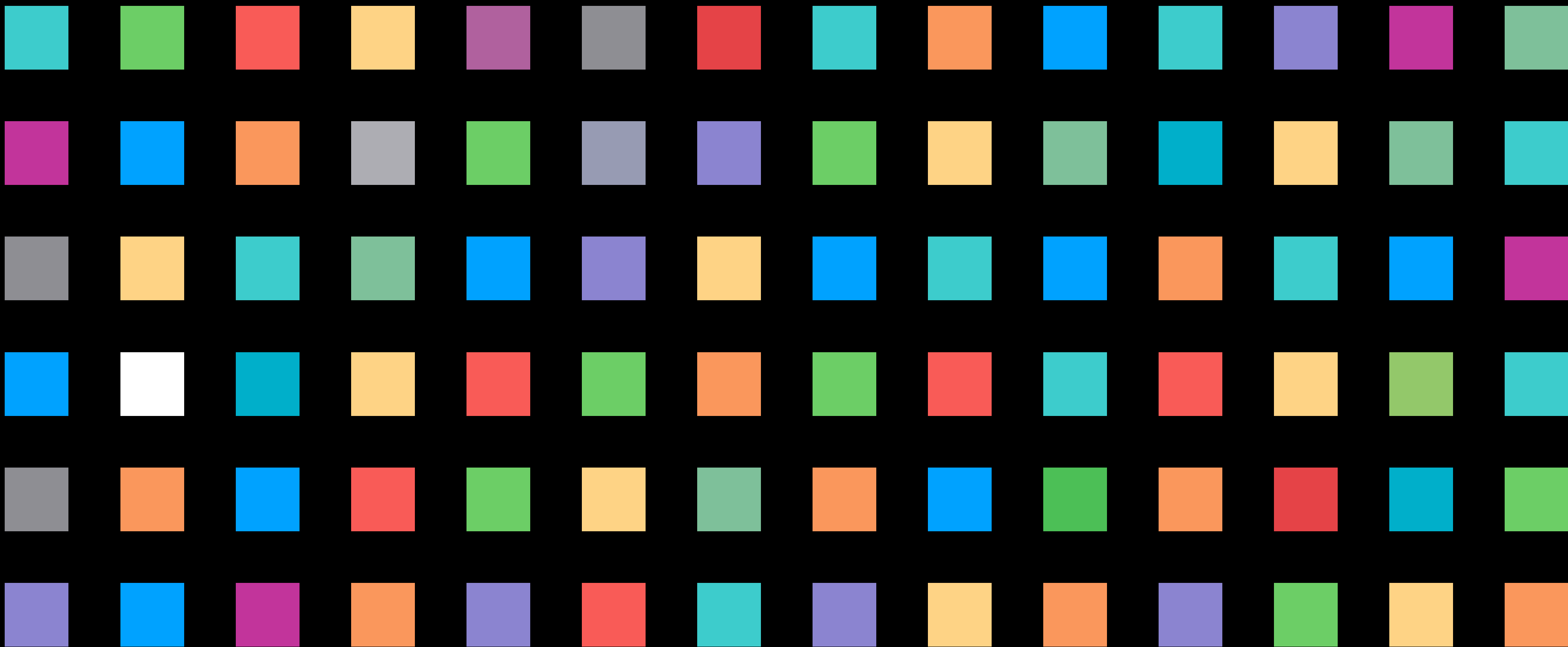
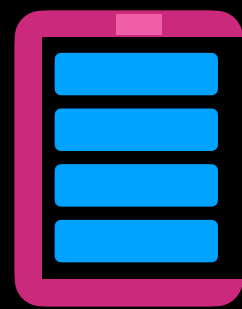
# Loops



# Loops







for



```
// Creating a loop based on a condition
for i in 0...2 {
    // Block of code to be repeated
    print("Bonjour tout le monde")
}
```























```
// Creating a loop based on a condition
```

```
for i in 0...2 {  
    // Block of code to be repeated  
    print("Bonjour tout le monde")  
}
```

Bonjour tout le monde  
Bonjour tout le monde  
Bonjour tout le monde

```
let usernames = ["Danilo", "Gilles", "Mark"]
```

```
// Creating a loop based on a condition
```

```
for i in 0...2 {  
    // Using the variable i  
    print("Hello \(usernames[i])")  
}
```

Hello Danilo  
Hello Gilles  
Hello Mark

```
// Creating a loop based on a condition
```

```
for i in 0...2 {  
    // Block of code to be repeated  
    print("Bonjour tout le monde")  
}
```

Bonjour tout le monde  
Bonjour tout le monde  
Bonjour tout le monde

```
let usernames = ["Danilo", "Gilles", "Mark"]
```

```
// Creating a loop based on a condition
```

```
for item in usernames {  
    // Using the variable i  
    print("Hello \(item)")  
}
```

Hello Danilo  
Hello Gilles  
Hello Mark















# for loops

```
let vehicles = ["unicycle" : 1, "bicycle" : 2, "tricycle" : 3, "quad bike" : 4]
for (vehicleName, wheelCount) in vehicles {
    print("A \(vehicleName) has \(wheelCount) wheels")
}
```

# for loops

```
let vehicles = ["unicycle" : 1, "bicycle" : 2, "tricycle" : 3, "quad bike" : 4]
for (vehicleName, wheelCount) in vehicles {
    print("A \(vehicleName) has \(wheelCount) wheels")
}
```

A unicycle has 1 wheels  
A bicycle has 2 wheels  
A tricycle has 3 wheels  
A quad bike has 4 wheels

# for loops

```
let vehicles = ["unicycle" : 1, "bicycle" : 2, "tricycle" : 3, "quad bike" : 4]
for (vehicleName, wheelCount) in vehicles {
    print("A \(vehicleName) has \(wheelCount) wheels")
}
```

A unicycle has 1 wheels  
A bicycle has 2 wheels  
A tricycle has 3 wheels  
A quad bike has 4 wheels

A bicycle has 2 wheels  
A unicycle has 1 wheels  
A tricycle has 3 wheels  
A quad bike has 4 wheels

# for loops

```
for (index, letter) in "ABCDEFGH".enumerated() {  
    print("\(index): \(letter)")  
}
```

# for loops

```
for (index, letter) in "ABCDEFGH".enumerated() {  
    print("\(index): \(letter)")  
}
```

```
0: A  
1: B  
2: C  
3: D  
4: E  
5: F  
6: G
```

*Hands on*

```
aaplStock = [  
  "code" : "AAPL",  
  "value" : "150,34",  
  "variation" : "0,45%",  
  "volume" : "US$ 4B"  
]
```



```
let userStocks = [  
  aaplStock,  
  brlX,  
  ibovespa,  
  fibr3,  
  hbor3,  
  itsa4,  
  sapr4  
]
```

```
aaplStock = [  
  "code" : "AAPL",  
  "value" : "150,34",  
  "variation" : "0,45%",  
  "volume" : "US$ 4B"  
]
```



```
let userStocks = [  
  aaplStock,  
  brlX,  
  ibovespa,  
  fibr3,  
  hbor3,  
  itsa4,  
  sapr4  
]
```



```
aaplStock = [  
  "code" : "AAPL",  
  "value" : "150,34",  
  "variation" : "0,45%",  
  "volume" : "US$ 4B"  
]
```



```
let userStocks = [  
  aaplStock,  
  brlX,  
  ibovespa,  
  fibr3,  
  hbor3,  
  itsa4,  
  sapr4  
]
```

```
aaplStock = [  
  "code" : "AAPL",  
  "value" : "150,34",  
  "variation" : "0,45%",  
  "volume" : "US$ 4B"  
]
```

AAPL	150,34	-0,45%
BRL=X	3,121	+0,00%
IBOVESPA	64.938,02	-0,37%

```
let userStocks = [  
  aaplStock,  
  brlX,  
  ibovespa,  
  fibr3,  
  hbor3,  
  itsa4,  
  sapr4  
]
```

```
aaplStock = [  
  "code" : "AAPL",  
  "value" : "150,34",  
  "variation" : "0,45%",  
  "volume" : "US$ 4B"  
]
```

AAPL	150,34	-0,45%
BRL=X	3,121	+0,00%
IBOVESPA	64.938,02	-0,37%
FIBR3.SA	34,01	-0,96%

```
let userStocks = [  
  aaplStock,  
  brlX,  
  ibovespa,  
  fibr3,  
  hbor3,  
  itsa4,  
  sapr4  
]
```

```
aaplStock = [  
  "code" : "AAPL",  
  "value" : "150,34",  
  "variation" : "0,45%",  
  "volume" : "US$ 4B"  
]
```

AAPL	150,34	-0,45%
BRL=X	3,121	+0,00%
IBOVESPA	64.938,02	-0,37%
FIBR3.SA	34,01	-0,96%
HBOR3.SA	2,26	+1,35%

```
let userStocks = [  
  aaplStock,  
  brlX,  
  ibovespa,  
  fibr3,  
  hbor3,  
  itsa4,  
  sapr4  
]
```

```
aaplStock = [  
  "code" : "AAPL",  
  "value" : "150,34",  
  "variation" : "0,45%",  
  "volume" : "US$ 4B"  
]
```

AAPL	150,34	-0,45%
BRL=X	3,121	+0,00%
IBOVESPA	64.938,02	-0,37%
FIBR3.SA	34,01	-0,96%
HBOR3.SA	2,26	+1,35%
ITSA4.SA	9,22	+0,44%

```
let userStocks = [  
  aaplStock,  
  brlX,  
  ibovespa,  
  fibr3,  
  hbor3,  
  itsa4,  
  sapr4  
]
```

```
aaplStock = [  
  "code" : "AAPL",  
  "value" : "150,34",  
  "variation" : "0,45%",  
  "volume" : "US$ 4B"  
]
```

AAPL	150,34	-0,45%
BRL=X	3,121	+0,00%
IBOVESPA	64.938,02	-0,37%
FIBR3.SA	34,01	-0,96%
HBOR3.SA	2,26	+1,35%
ITSA4.SA	9,22	+0,44%
SAPR4.SA	10,65	+0,09%

```
let userStocks = [  
  aaplStock,  
  brlX,  
  ibovespa,  
  fibr3,  
  hbor3,  
  itsa4,  
  sapr4  
]
```



```
aaplStock = [  
  "code" : "AAPL",  
  "value" : "150,34",  
  "variation" : "0,45%",  
  "volume" : "US$ 4B"  
]
```



```
let userStocks = [  
  aaplStock,  
  brlX,  
  ibovespa,  
  fibr3,  
  hbor3,  
  itsa4,  
  sapr4  
]
```

