

Introduction au CSharp

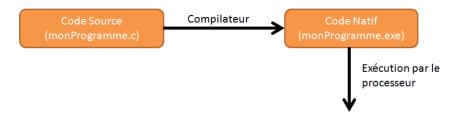
Raphael 'Shugo' Boissel Quentin 'Underflow' de Laroussilhe

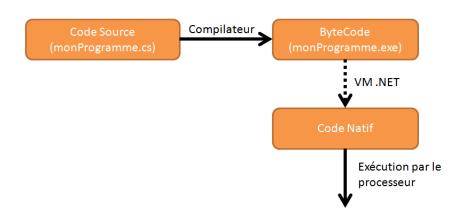
18 Octobre 2012



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 - Mon ordinateur, mon esclave
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 - Les bases
 - Les structures de controle
 - Tout est objet, ma petite amie aussi?







Live demo

•0

Mon ordinateur, mon esclave



- Fais moi un sandwich;
- Fais la vaisselle
- Sors la poubelle
- I ant que (le sol est sale) : { Lave le sol; }
- Si (il y a du courrier) : {Va chercher le courier; }

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Les bases

Les variables :

- int monAge = 21;
- float monAge = 21.0f;
- string monAge = "j'ai 21 ans"

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```
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- float monAge = 21.0f;
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Utiliser les variables :

```
int valueA = 10;
valueA = 42;

int valueB = 40;
valueB = valueB + 2;

string valueC = "Shugo";
valueC = "Hello " + valueC + "!";
```

```
Le test :
string myName = "Shugo";
if (myName == "Shugo")
  console.writeLine("Hello Shugo");
else
  console.writeLine("I don't know you");
}
```

```
Le test :
string myName = "Shugo";
if (myName != "Shugo")
  console.writeLine("You are not Shugo");
else
  console.writeLine("You are Shugo");
```

```
La boucle for :
for (int n = 0; n < 10; n++)
{
   console.writeLine(n);
}</pre>
```

Les structures de controle

```
La boucle while :
int n = 0;
while (n < 10)
{
   console.writeLine(n);
   n = n + 1;
}</pre>
```

```
Utiliser les objets :
```

```
Bitmap image = new Bitmap(512, 512);
image.setPixel(10, 10, Color.White);
```



```
public class Girlfriend
{
   Head head = new Head();
   Breast leftBreast =
      new Breast(85, "A");
   Breast rightBreast =
      new Breast(85, "B");
   string boyfriendName = "Kevin";
}
```



```
public class Girlfriend
  string boyfriendName = "";
  public void setBoyFriendName(stri
  { boyfriendName = Name; }
  public void saySometing()
        Console.writeLine(
          "My boyfriend is " +
          boyfriendName +
          "and he lovesmy boobs");
```

```
Girlfriend flora = new Girlfriend();
flora.setBoyFriendName("Kevin");
Girlfriend estelle = new Girlfriend();
estelle.setBoyFriendName("maxime");

flora.saySomething();
estelle.saySometing();
```

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Girlfriend flora = new Girlfriend();
flora.setBoyFriendName("Kevin");
Girlfriend estelle = new Girlfriend();
estelle.setBoyFriendName("maxime");

flora.saySomething();
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My boyfriend is Kevin and he loves my boobs
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Girlfriend flora = new Girlfriend();
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flora.saySomething();
estelle.saySometing();
My boyfriend is Kevin and he loves my boobs
```

My boyfriend is Maxime and he loves my boobs

```
public class Vector
    public int x;
    public int v:
    public function Add(R2Vector vect)
        x += vect.x;
        y += vect.y;
    public function Print()
        Console.writeLine(
            "X: " + x.ToString() +
            " Y: " + y.ToString());
```

```
Vector my_vector = new Vector(29, 23);
my_vector.Add(new Vector(3, 4));
my_vector.Add(new Vector(8, 5));
my_vector.Add(new Vector(2, 10));
vector.Print();
```

```
Vector my_vector = new Vector(29, 23);
my_vector.Add(new Vector(3, 4));
my_vector.Add(new Vector(8, 5));
my_vector.Add(new Vector(2, 10));
vector.Print();
X:42 Y:42
```

Introduction

Questions, remarques, choses pas claires?