

Ein Einblick in die GODOT Game Engine









Lesson 01

Godot basics, 'Hello world', and Inspectors

Regel Nr. 1 - Bei Unklarheiten? Fragen!

Gerne mehrmals <3

A big part of coding is researching

Learn where to find what you need, what pages are useful

English often has more results, bigger coding Community

GODOT DOCUMENTATION docs.godotengine.org/ en/stable/index.html **GODOT DOCS** Godot 3 Recipes

http://kidscancode.org/godot_recipes/3.x/

GDScript

C

Native Language

Native to GODOT, optimized

Blocks/Blöcke

Blocks in GODOT are indent based, Not using curly-brackets

FORMATING MATTERS!

Dynamische Sprache

Es ist keine kompilierung nötig um den Code zu testen; Variablen müssen nicht Typisiert werden/Nicht Typ gebunden

NOT GDScript

```
code {
   int variable = 3;
  void myFunction(){
   code;
     more code;
  if (variable = 3) {
  > code;
```

```
code {
int variable = 3;
void myFunction(){
code;
more code;
if (variable = 3) {code;}
}
}
```

NOT GDScript vs. GDScript

```
code {
    int variable = 3;
   void myFunction(){
       code;
        more code;
       if (variable = 3) {
            code;
```

```
code
var variable = 3
func _my_function():
   code
   more code
  if (variable = 3):
       code
```

Formatierung in c++ (links) gehört zum guten Stil/Lesbarkeit, in GDScript (rechts) ist es ein Muss

GDScript: Variable Initialisieren



```
int x = 1;
```

GDScript

```
var x = 1
#oder
var y:int = 1
```

Dynamisch, keine Typisierung notwendig

Kann allerdings mit : typisiert werden

```
var x = 1
var y = 2
var z = 3
```

Leerzeichen

func _my_function():
 x = 1
 y = 2
 if (x == 1):
 x = 2

Leerzeichen

```
var x = 1
var y = 2
var z = 3
var x = 1
var y = 2
var z = 3
```

error(4,1): Unexpected indentation.

Fehlende Einrückung

```
func _my_function():
    x = 1
    y = 2
    if (x == 1):
    x = 2
func _my_function():
    x = 1
    y = 2
    if (x == 1):
    x = 2
```

error(11,1): Expected an indented block after "if".

```
func _my_function():
x = 1
y = 2
```

Leerzeichen

```
var x = 1
var y = 2
var z = 3

var x = 1
var y = 2
var z = 3
```

error(4,1): Unexpected indentation.

Fehlende Einrückung

```
func _my_function():
    x = 1
    y = 2
    if (x == 1):
    x = 2
func _my_function():
    x = 1
    y = 2
    if (x == 1):
    x = 2
```

error(11,1): Expected an indented block after "if".

Mischen von Tab und Leerzeichen

```
func _my_function():
x = 1
y = 2
```

error(9,1): Mixed tabs and spaces in indentation.

0

```
func _my_function():
x = 1
y = 2
```



GODOT

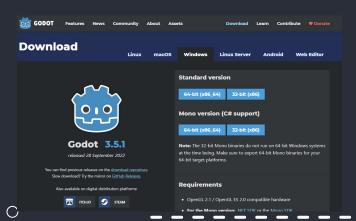
Game engine

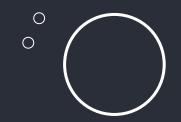
Download GODOT

https://godotengine.org/

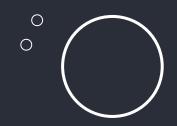
- Version 3.5.1
- Keine Installation Notwendig
- WICHTIG: Gute Ordnerstruktur

F.ex. Projekte, Assets, Git upload als getrennte Ordner





print("Hello World")



Multiple Buttons that give out different text

Task 01



Two scenes that switch between each other through the click of a button

Task 02