

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
```

### What will we make?

#### Small game

We'll go over: Basic coding, Sprites, Audio, Music

Doesn't have to be more than one room

#### **Example:**

https://pr0crastigam3s.itch.io/w gj196-strangerecipe-kettle





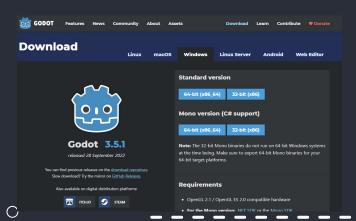
# GODOT Game engine

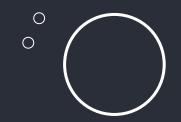
### **Download GODOT**

#### https://godotengine.org/

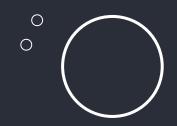
- Version 3.5.1
- Keine Installation Notwendig
- WICHTIG: Gute Ordnerstruktur

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