# Rotate Programming Language Documentation

#### Airbus5717

 $June\ 18,\ 2021$ 

# About

- Low learning curve.
- [.vr] file extension.
- syntax close to C-like languages and Rust
- static typing and scripting language

WARNING: SYNTAX MAY CHANGE AT ANY MOMENT

# Overview

# Display output

```
import std.io;
fn main() {
    println("Hello World!");
}
```

#### Comments

```
// single line comment
/* multiline
  comment */
/+ multiline
  comment
  +/
/// documentation comment
```

```
/*
    // nested multiline comments are not allowed

*/
/+
    /*
    Allowed
    */
+/
```

### Variables

```
// immutable string
let NAME: str = "a string";
// mutable string
let mut name: str = "mutable string";

// immutable ascii char
let char1: char = 'a';
// immutable int
let x: int = 1;

let num: float = 12.0;
```

#### Arrays

```
let array[3]: int = [1, 2, 3];
```

#### **Functions**

use arrow for return type. don't use arrow for void functions.

```
fn example() -> str {
    return "example string";
}
```

### **Imports**

import folder.file;

```
import std.io;
```

### Strings

```
let name = "Hello";
let name2 = #"{name}, World!"#;
```

# Operators and Logic

same as C and Rust with little modifications

#### If statements

```
if x == 1 {
    // code
} else if x == 2 {
    // code
} else {
    // code
}
```

#### Match statements

## Loops

for and while loops as well as a foreach loop

```
foreach (i, 0..2) {
    println(#"{i}"#);
}
```

# Considering Later

# Structures

similar to C but without typedef and with functions