

# Scripting

*And why we use it*

*What is Scripting?*

1. Programming Language
2. Interpreted
3. Executed on a host app
4. Extend the host app

*Host application?*



Application

+



Language

*How does it work?*

```
// somewhere inside your code
```

```
// Some code here ..
```

```
executeScript("my_script.script")
```

```
// Some code there
```

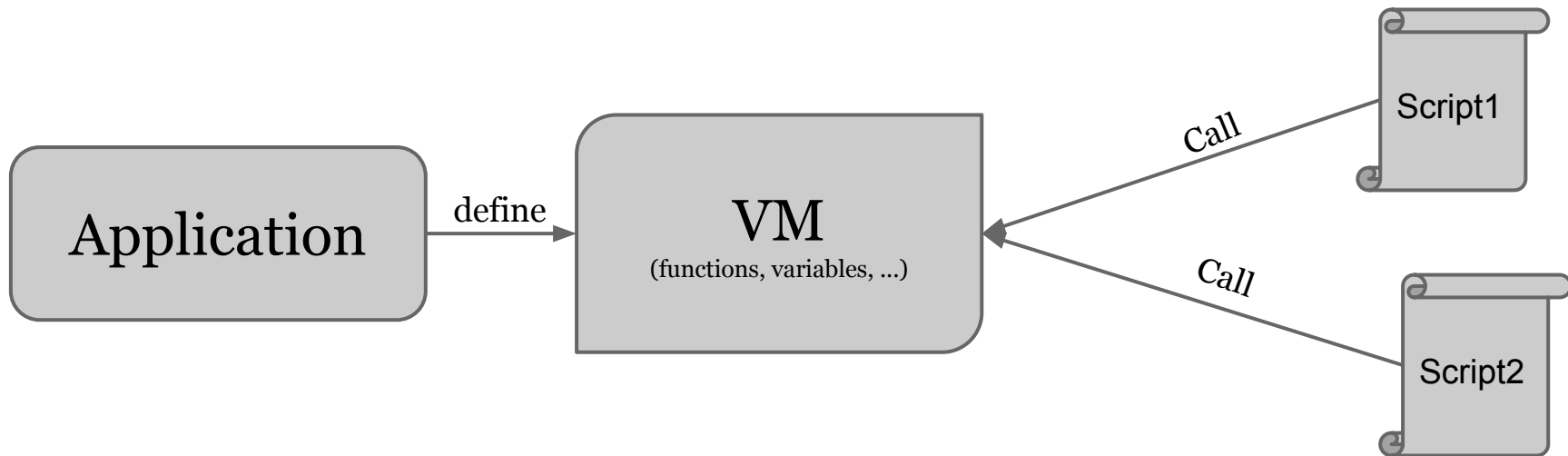
*Then what*





Host app works normally but ..  
Script will change its **behaviour**.  
**Depending** on the script's code.

*How can scripts **affect** host app?*



*Code sample*

```
// main app
```

```
void DoPrint()
```

```
{
```

```
    String arg = VM.getArg(0);
```

```
    print(arg);
```

```
}
```

```
print("Hello world from Host app!");
```

```
VM.Define("print", DoPrint);
```

```
executeScript("my_script.script");
```

```
print("good bye");
```

```
# my_script.script
```

```
print("Hello, world from script")
```

```
print("good bye from script")
```

*Output*

```
sora@soralaptop:~$ ./app  
Hello world from Host app!  
Hello, world from script  
good bye from script  
good bye
```

*What just happened?*



1. **Defined** a function called "DoPrint"
2. Tell the VM "print" = "DoPrint"
3. **Execute** a script file
4. Our application's output is **different**

*Recap*

1. Changed the application output
2. By editing the script
3. No need to change the app source code or to recompile it again.



*Advantages of scripting*

1. **Extending** the application without changing the source code
2. No need to **recompile** the application
3. Scripting languages are **higher level**
4. **Easy interface** with host application

# *Scripting solutions*



*Q&A*

*Thank you <3*