

Defining variables

Constant

```
let constantVar = " Hello,
World! "
```

Implicit

```
var implicitVar = " Hello,
World! "
```

Explicit

```
var explicitVar: String = " -
Hello, World! "
```

Loop types

Range

```
for x in 1...5
```

Iterate through array

```
for item in [1, 2, 4, 5]
```

Iterate through dictionary

```
for (key, value) in ["one":1,
"two":2, ...]
```

Switch methods

```
switch ["1", " 2", " 3", 4, 5,
6, (1, 100)] {
    case " 1":
        print( " 1")
    case " 2", " 3":
        print( "2 or
3")
        print( "No
fallthrough")
    case 4...5:
        print( " Int -
erval matching")
    case (1...100, 1...100):
        print( " Tuples
work the same.")
    default:
        print( " 6")
        print( " Req -
uired in switch s")
        print( "Must be
last")
}
TODO: _, value binding, fallth -
rough, where
```

Function signature anatomy

Argument (optional) Used when calling the function

Parameter Name Used in the implementation of the function

Return Type (optional) Can be a tuple for multiple return values

throws (optional) Causes errors to propagate up.

```
func FunctionName (ArgumentLabel
ParameterName: String) throws ->
<ReturnType> {
    // Code
}
```

Event handling

No language constructs available.

Error handling

Representing errors

```
enum ErrorEnum: Error {
    case ErrorTypeA
    case ErrorT ypeB: String
}
```

Propagating Errors Using

Throwing Functions

```
func canThrowErrors() throws -
> String
```

Handling Errors Using Do-Catch

```
do {
    try results = ThrowT -
ypeB()
} catch ErrorE num.Er ror Typ -
eB(let errorS tring) {
    // Handle error
}
```

Converting Errors to Optional

Values

```
let x = try? someTh row ing -
Function()
```

Disabling Error Propagation

```
let x = try! someTh row ing -
Function()
```



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