```
Swift Macros
     "The key to efficient
      and elegant code"
9
10
11
12
13
```

7 8 9

11

10

12

13

14

public struct Ibrahima {

- Senegal
- Freelance/Indie iOS Developer
- bionik6 almost everywhere
- iosmasterydev Youtube



```
9
10
11
12
13
```

public struct Acknowledgments {

"Thank you for Phil and the conference organizers, and thank you for attending my session"

```
public enum Agenda {
      case Swift macros: what are they?
      case macro types
      case building our own macro
9
10
      case shortcomings
11
12
13
```

```
8
9
10
11
```

13

#define "Swift Macro";

"Swift Macros are compiler plugins that extend the Swift language, and can help you generate code at compile-time to eliminate boilerplate code."

```
#why-use "Swift Macro"?
```

"They can to perform custom compile-time checks, emit helpful compiler errors"

13

12

8

9

10

11

```
3
  public enum MacroType {
      case freestanding
      case attached
10
12
13
```

#define "Freestanding macros";

"Appear on their own, without being attached to a declaration. They always start with the # sign and return a value."

8

9

10

11

12

```
3
  public enum FreestandingMacro {
      case Ofreestanding(expression)
      case Ofreestanding(declaration)
10
12
13
```

```
#define "Attached macros";
```

"Modify the declaration that they're attached to. They always start with the a sign."

6

8

9

10

11

12

```
public enum AttachedMacro {
   case @attached(peer)
   case @attached(accessor)
   case @attached(memberAttribute)
   case @attached(member)
   case @attached(conformance)
```

11

12

10

11

12

13

Building our own macro



Xcode Prime Time



```
2
  public enum MacroShortcoming {
      case SwiftSyntaxDifficultToMaster
      case NotTrivialToDebug
9
      case TestingCanBeExtremelyPainful
10
11
12
13
```

```
public enum Recap {
      case whatAreMacroAndWhyUseThem
      case differentTypesOfMacro
      case creatingAndUsingAMacro
10
      case macroShortcoming
11
12
```

Ibrahima Ciss

```
10
11
13
```

public struct Resource {



"Ultimate resource to learn more about Swift macros"

```
public struct Contact {
      static let twitter/x = "bionik6"
      static let linkedin = "bionik6"
      static let youtube = "iosdevmastery"
10
11
12
13
```



Questions?