

“Hello, World!”
example

“Hello, Kotlin” example

```
package intro
```

```
fun main(args: Array<String>) {  
    val name = if (args.size > 0) args[0] else "Kotlin"  
    println("Hello, $name!")  
}
```

Hello, Kotlin!

New keywords: fun, val

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package intro
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fun main(args: Array<String>) {  
    val name = if (args.size > 0) args[0] else "Kotlin"  
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New keywords: fun, val

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```
fun main(args: Array<String>) {  
    val name = if (args.size > 0) args[0] else "Kotlin"  
    println("Hello, $name!")  
}
```

No class

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package intro
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```
fun main(args: Array<String>) {  
    val name = if (args.size > 0) args[0] else "Kotlin"  
    println("Hello, $name!")  
}
```

Hello.kt 

You can define functions at the top level

Arrays

```
package intro
```

```
fun main(args: Array<String>) {  
    val name = if (args.size > 0) args[0] else "Kotlin"  
    println("Hello, $name!")  
}
```

Array looks like a regular class

if expression

```
package intro
```

```
fun main(args: Array<String>) {  
    val name = if (args.size > 0) args[0] else "Kotlin"  
    println("Hello, $name!")  
}
```

if is an expression

String templates

```
package intro
```

```
fun main(args: Array<String>) {  
    val name = if (args.size > 0) args[0] else "Kotlin"  
    println("Hello, $name!")  
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```

Hello, Kotlin!

String templates: easy way to insert a value into a String

String templates

"...\$variable..."

"...\${functionCall(...)}..."

```
fun main(args: Array<String>) {  
    println("Hello, ${args.getOrNull(0)}!")  
}
```



What will be printed
if no arguments are passed?

```
fun main(args: Array<String>) {  
    println("Hello, ${args.getOrNull(0)}!")  
}
```

1. Hello, null!
2. Hello, !
3. NPE will be thrown





What will be printed
if no arguments are passed?

```
fun main(args: Array<String>) {  
    println("Hello, ${args.getOrNull(0)}!")  
}
```


1. Hello, null!

2. Hello, !

3. NPE will be thrown

Works as in Java

```
public static void main(String[] args) {  
    System.out.println("Hello, " + null + "!!");  
}
```



Hello, null!

```
fun main(args: Array<String>) {  
    println("Hello, ${null}!!")  
}
```



Hello, null!



What will be printed?

```
fun foo(): String {  
    println("Calculating foo...")  
    return "foo"  
}  
  
fun main(args: Array<String>) {  
    println("First ${foo()}, second ${foo()}")  
}
```

Calculating foo...

Calculating foo...

First foo, second foo

Calculating foo...

First foo, second foo





What will be printed?

```
fun foo(): String {  
    println("Calculating foo...")  
    return "foo"  
}  
  
fun main(args: Array<String>) {  
    println("First ${foo()}, second ${foo()}")  
}
```

Calculating foo...
Calculating foo...
First foo, second foo

Calculating foo...
First foo, second foo