Accessibility and Companion Objects



Lesson Objectives

- After completing this lesson, you should be able to:
 - Leverage accessibility keywords to manage visibility of methods and fields
 - Describe the role companion objects play in Scala
 - Outline how to use companion objects



Accessibility

- We can use keywords to limit the visibility of methods and fields in class instances
 - public, the default
 - private, limiting visibility only to yourself
 - protected, unimportant for now



Accessibility

```
class Hello {
  private val message: String = "Hello!"
}

class Welcome {
  val message: String = "Hello!"
}
```



Companion Objects

- If a Singleton object and a class share the same name and are located in the same source file, they are called companions
- A companion class can access private fields and methods inside of its companion object



Companion Objects

This is a great way to separate static members
 (fields, constants and methods) that are unrelated to
 a specific instance from those members that are
 related to a specific instance of that class



Companion Objects

```
object Hello {
   private val defaultMessage = "Hello!"
}
class Hello(message: String = Hello.defaultMessage) {
   println(message)
}
```



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