

Priorities Between Given Instances

Effective Programming in Scala

Priorities

Actually, several given instances matching the same type don't generate an ambiguity if one is **more specific** than the other.

A definition given a: A is more specific than a definition given b: B if:

- a is in a closer lexical scope than b,
- a is defined in a class or object which is a subclass of the class defining b,
- type A is a subtype of type B,
- type A has more "fixed" parts than B.

Priorities: Example (1)

```
given universal[A]: A = ???
given int: Int = ???
summon[Int]
```

Priorities: Example (2)

```
trait A:
    given x: Int = 0

trait B extends A:
    given y: Int = 1

object C extends B:
    summon[Int]
```

Priorities: Example (3)

```
given x: Int = 0
def foo() =
  given y: Int = 1
  summon[Int]
```

Priorities: Example (4)

```
class General()
  class Specific() extends General()

  given general: General = General()

   given specific: Specific = Specific()

summon[General]
```

Summary

Several given instances matching the same type don't generate an ambiguity if one is **more specific** than the others.