

Advanced Pattern Matching



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We can define our own patterns with unapply

```
class Person(val name: String, val age: Int)

object Person {
  def unapply(person: Person): Option[(String, Int)] =
    Some((person.name, person.age))
}
```

the instance
being decomposed

results as an Option
(simple value or tuple)

```
person match {
  case Person(name, _) => println(s"Hi, I'm $name.")
}
```

the compiler searches
for the appropriate unapply

Patterns are independent of classes we decompose

- e.g. pattern can belong to Person, but we deconstruct a String

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Infix patterns

```
numbers match {  
  case head :: Nil => println("single element" + head)  
  // equivalent:  
  case ::(head, Nil) => println("single element" + head)  
}
```

Match sequences

```
object MyList {  
  def unapplySeq[A](list: MyList[A]): Option[Seq[A]] = // ...  
}  
  
myList match {  
  case MyList(1,2, _) => // ...  
}
```

Rare PM: boolean patterns, custom unapply return types

Scala rocks

