



СОПОСТАВЛЕНИЕ С ОБРАЗЦОМ (Pattern Matching)

СОПОСТАВЛЕНИЕ С ОБРАЗЦОМ

```
{  
  case 1 => "one"  
  case 2 => "two"  
}
```

СОПОСТАВЛЕНИЕ С ОБРАЗЦОМ

```
x match {  
  case 1 => "one"  
  case 2 => "two"  
}
```

СОПОСТАВЛЕНИЕ С ОБРАЗЦОМ

```
def numberName(x: Int) = x match {  
  case 1 => "one"  
  case 2 => "two"  
}
```

СОПОСТАВЛЕНИЕ С ОБРАЗЦОМ

```
def numberName(x: Int): String = x match {  
  case 1 => "one"  
  case 2 => "two"  
}
```

```
numberName(1) == "one"
```

```
numberName(2) == "two"
```

```
numberName(3) == throw MatchError !!!!!
```

СОПОСТАВЛЕНИЕ С ОБРАЗЦОМ

```
def numberName(x: Int): String = x match {  
  case 1 => "one"  
  case 2 => "two"  
  case _ => "unknown"  
}
```

```
numberName(1) == "one"
```

```
numberName(2) == "two"
```

```
numberName(3) == "unknown"
```

СОПОСТАВЛЕНИЕ С ОБРАЗЦОМ

```
def numberName(x: Int): String = x match {  
  case 1 => "one"  
  case _ => "unknown"  
  case 2 => "two"  
}
```

```
numberName(1) == "one"
```

```
numberName(2) == "unknown"
```

```
numberName(3) == "unknown"
```

СОПОСТАВЛЕНИЕ С ОБРАЗЦОМ

```
def numberName(x: Int): List[String] = x match
{
  case 1      => "one"
  case 2      => "two"
  case 3 | 4  => "three or four"
  case _      => "unknown"
```

```
numberName(1) == "one"
```

```
numberName(2) == "two"
```

```
numberName(3) == "three of four"
```

```
numberName(4) == "three of four"
```


СОПОСТАВЛЕНИЕ С ОБРАЗЦОМ

```
def numberName(x: Int): String = x match {  
  case 1      => "one"  
  case 2      => "two"  
  case x if x % 2 == 0 => "unknown even"  
  case _      => "unknown odd"  
}
```

```
numberName(1) == "one"
```

```
numberName(2) == "two"
```

```
numberName(3) == "unknown odd"
```

```
numberName(4) == "unknown even"
```

CASE CLASS

```
case class Address(country: String, city: String)
```

```
def addressInfo(address: Address): String = address match{  
  case Address("Russia", _) => "russian"  
  case Address("Japan", _)  => "japanese"  
  case _                    => "no info"  
}
```

CASE CLASS

```
case class Address(country: String, city: String)
```

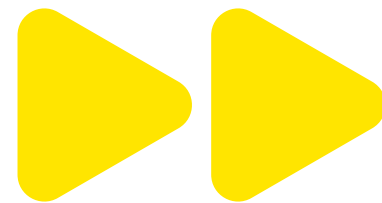
```
def addressInfo(address: Address): String = address match{  
  case Address("Russia", "Moscow") => "russian capital"  
  case Address("Russia", _) => "russian"  
  case Address("Japan", "Tokio") => "japanese capital"  
  case Address("Japan", _) => "japanese"  
  case _ => "no info"  
}
```

CASE CLASS

```
case class Address(country: String, city: String)
```

```
def addressInfo(address: Address): String = address match{  
  case Address("Russia", "Moscow") => "russian capital"  
  case Address("Russia", city) => s"russian $city"  
  case Address("Japan", "Tokio") => "japanese capital"  
  case Address("Japan", city) => s"japanese $city"  
  case _ => "no info"  
}
```

**Мы изучили основы
сопоставления с образцом**



**В следующем видео
разберём его подробнее**