

Scala

Session-4



Scala session - 4

Partially applied functions

this is an act of creating brand new functions by fixing one or more parameters in a function

lets say we have a divide function which takes 2 parameters. this is generic function.

x/y

now we can create a specific brand new function by fixing in the numerator, the value of x

$1/y$

```
def divideFunc(x: Double , y: Double) = {x/y}
```

```
divideFunc(10,2)
```

```
val inverse = divideFunc(1, _:Double)
```

```
4 5 9
```

```
4 5 41
```

```
4 5 189
```

```
def genericSum(x:Int,y:Int,f:Int => Int) = {  
  f(x) + f(y)  
}
```

```
genericSum(2,3,x=>x*x*x)
```

```
x 2
```

```
y 3
```

```
f(x) 8
```

```
f(y) 27
```

function currying

```
def genericSum(f:Int=>Int)(x:Int, y:Int) = {  
    f(x)+f(y)  
}
```

```
genericSum(x=>x*x)(3,4)
```

```
val sumOfSquares = genericSum(x=>x*x)_
```

```
sumOfSquares(3,4)
```



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