

Day 12 : Traits, Value Class & Universal traits.

Defn: Traits encapsulates methods & field definition.

trait

Keyword

```
xyz {  
  var x = 10;  
  def add() = {1 + 2}
```

~~Object~~
~~Val obj = new xyz~~

Child

Class

```
}  
xyz1 extends xyz
```

parent
↓

Inheritance ✓

Class

C₁
↓
C₂

~~C₁ C₂~~
~~C₃~~

✓ T₁ T₂
↓
C₁ C₁


```
trait Car {  
  def engine () { println ("1000 cc") }  
  def wheel ()  
  def breaks ()
```

```
Class mercedes extends Car {  
  def wheel () { print ("4 wheels") }  
  def breaks () { print ("Disk breaks") }  
  def engine () { print ("2000 cc") }
```

} unimplemented methods in traits should be
implemented in class extending given trait.

trait

```
Vehicle {  
  def breaks () { pr(a) }  
}
```

Class Mercedes extends Vehicle with Car

trait

```
Car {  
  def breaks () { pr(b) }  
}
```

with . . .
with . _