Traits further to the right take effect first. If that method calls super, it invokes the method to its left, and so on.

They allow modification of a class's behavior by one or more traits without defining a new version of the class via overridden methods in the class body.

Hence the modified class may well have no body. The trait does all the modification for you.

class X extends someClass with Trait 1 with
Trait 2...
or

class X extends Trait 1
or
class X extends Trait 1 with Trait 2



A class is always linearized before *all* of its superclasses and mixed in traits.

Thus when you write a method that calls super, the method is definitely modifying the behavior of the superclasses and mixed in traits, not the other way around.

- They have class parameters.
- Super calls are dynamically instead of statically bound.

Once a trait is mixed into a class, you can alternatively call it a mixin.

In classes this is not allowed because the call will fail at runtime.

It is allowed in traits with abstract override modifier. Super is dynamically bound so that it will work if the mix-in happens after the class or other trait provides the implementation. - Extend a superclass.

- Have state.

- = xto ... a capo. c.aco.
- Have method implementations.

- Have a constructor (sans parameters).

```
<, >, <=, >=
```

You only implement compare (T).

Returns

x < 0 iff this < that x = 0 iff this == that x > 0 iff this > that

trait X extends Y means X can only be mixed into a Y.

With multiple inheritance, the method super calls can be determined statically. With traits, linearization determines the calls.

Linearizing classes with traditional multiple inheritance would break with normal static interpretation of super that is otherwise used. Scala can use one strategy for classes and one for traits.

Type erasure!

equals has to check the type of the argument to see it it's a T, which is not possible?

This check must be performed because compare(T) takes a narrower type than equals, in general.

They enrich thin interfaces without burdening the client, since most methods can come fully implemented.

They can define stackable modifications.

Traits should be the default choice, as they keep open more options.

abstract class	traits
inherit from Java	reusable in multiple parts of the
l l hierarchy	, cossessed an industry possess of the
distribute your code in compiled	
form without forcing recompilation	on usable from Java if only made of
on every add/remove of member[abstract methods
0 0 0	
efficiency[