

Semigroupal



Semigroupal

Higher-kinded type class which can tuple elements

```
import cats.Semigroupal
import cats.instances.option._ // implicit Semigroupal[Option]
val optionSemigroupal = Semigroupal[Option]
val aTupledOption = optionSemigroupal.product(Some(123), Some("a string")) // Some((123, "a string"))
```

Monads extend Semigroupals

- product is implemented in terms of map/flatMap

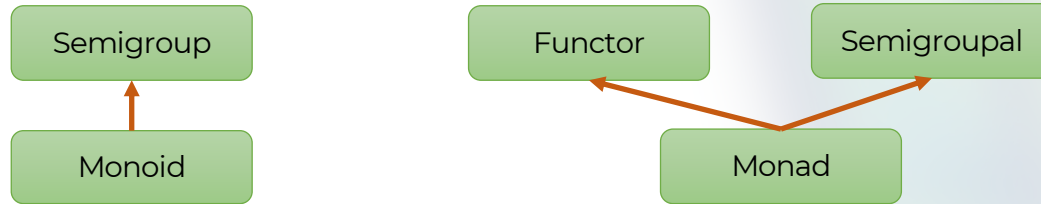
Some Semigroupals are useful without being monads

- example: Validated

Don't confuse Semigroup with Semigroupal

- combining vs tupling

Cats TC Hierarchy



Cats rock

