# Concurrency



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#### Overview



Concurrency and parallelism

**Future** and ExecutionContext

**Future** transformation

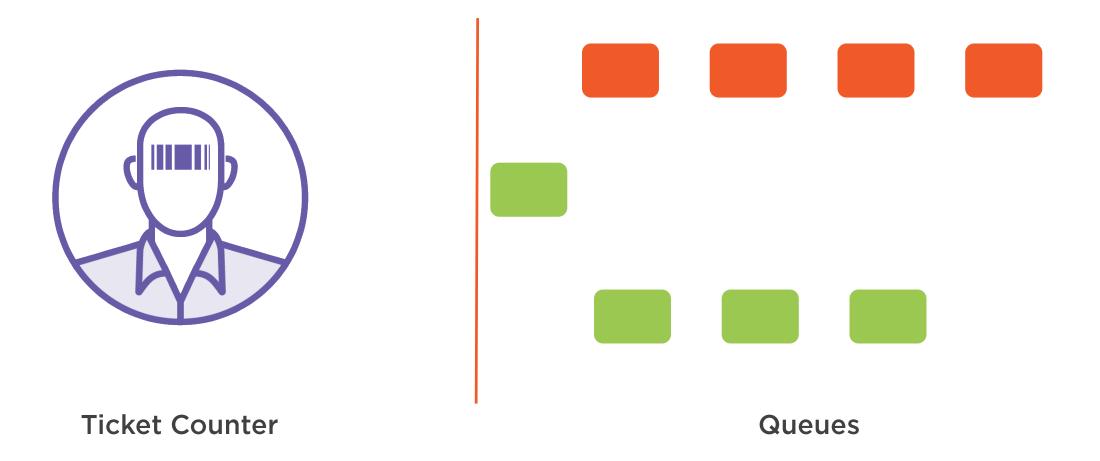
Filtering and collecting *Future* 

Other ways to model asynchronous computations

Dealing with *Future* failures

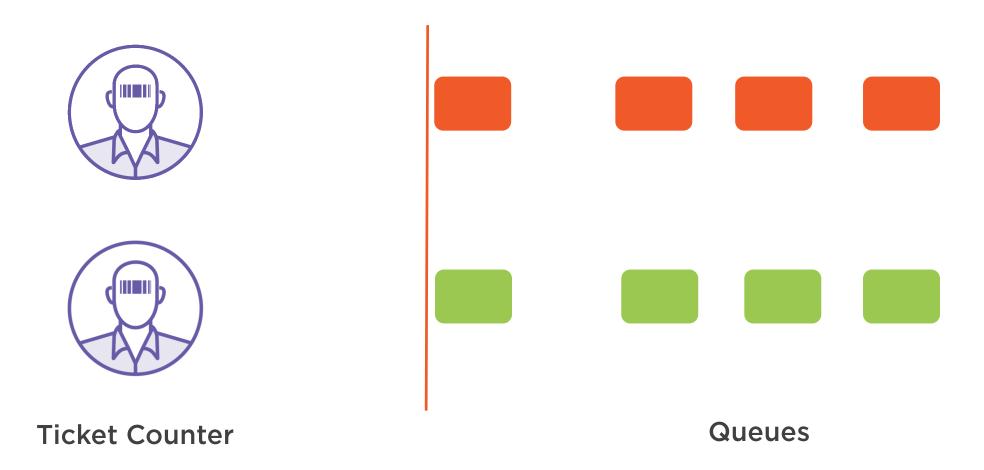


## Concurrency



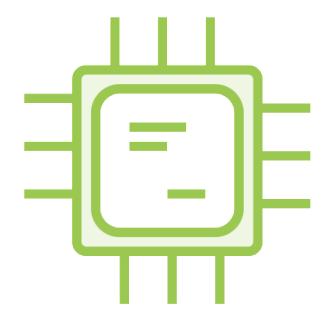


#### Parallelism





# Why care about concurrency?







**Fast** 



#### ThreadPool & ExecutionContext



**ThreadPool** 

**ExecutionContext** 



import ExecutionContext.Implicits.global

Import Scala Global ExecutionContext



```
doWork(a: Int, b: Int)(implicit arg: Int => String)
```

Scala Implicit Example



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