Sequences and Time

If I could put time in bottle...



Overview

- Timestamp
- > Interval
- Timer
- Timeout
- Throttle



OData Feed



OData feed

- data wrapped in XML
- page | not stream | oriented
- .NET supports OData as a Data Service



Generate

consume pages | produce sequence

```
<feed >
http://odata.netflix.com/Catalog/Titles?$filter=ReleaseYear eq 1980
...

<p
```



DataSequence

- **▶** LINQ to sequence is easy
- Repeated query execution
- Need state

(select title from netflix.titles). ₹ kûp (ê 0 0 1 bûb (b se a bab (è ()



Timestamp



Adds timestamp to OnNext

□ Timestamped 🖈 Timestamp, Value

sequence.Timestamp()



Timer



Produces sequence of counting numbers at defined rate

Observable.Timer(startup_delay, period)



TimeInterval



Records time between values in sequence

□ TimeInterval ⇒ TimeSpan, Value



Throttle



Replaces burst with last value

burst when period below some minimum



Timeout



Prevents subscription from running for too long

throws exception

Timeout(expire time, scheduler)



Summary

- DataSequence
- **Timer**
- Timestamp / TimeInterval
- Timeout
- **→** Throttle



References

- Fiddler
 - http://www.fiddler2.com

