Managing Concurrency

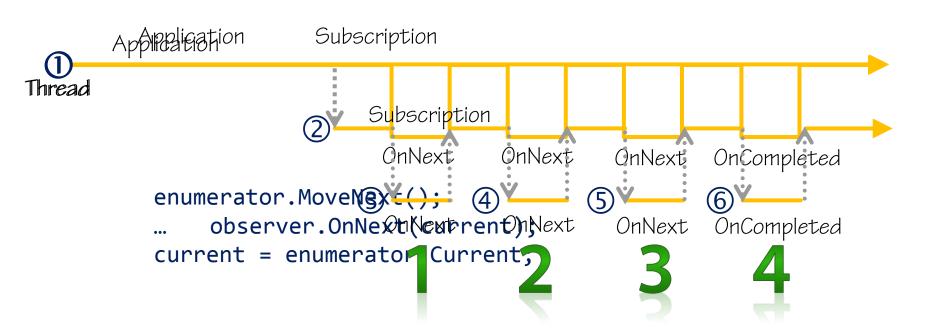
The left hand **does** know what the right is doing.



Overview

Scheduler

ToObservable, SubscribeOn ObserveOn





Scheduling Delegates

ToObservable

SubscribeOn ObserveOn

```
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```

observer.OnNext(P¤ocest(current))



Specific Scheduling

→ ObserveOn

> SubscribeOn



Observable Lifetime

- Subscriptions cleanup automatically
- Subscriptions are disposable

```
var subscription= observableSequence.Subscribe(Console.WriteLine);
//...
subscription.Dispose();
```



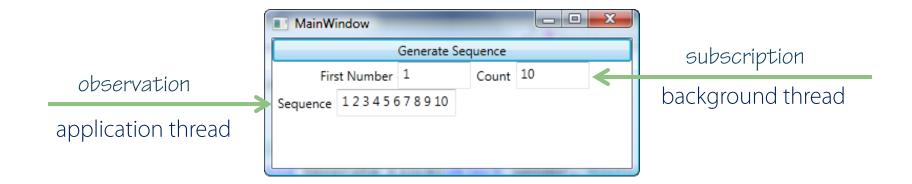
Cleanup





Scheduler.Dispatcher

- GUI applications
 - □ WPF, Forms





Summary

- Declarative
- Subscription / Observation
 - SubcribeOn / ObserveOn
- Observation Grammer / Concurrency
 - (OnNext*)?, (OnError | OnCompleted)?
- Subscription termination
- Disposable objects
- Cleanup
- **WPF and Windows Forms applications**

