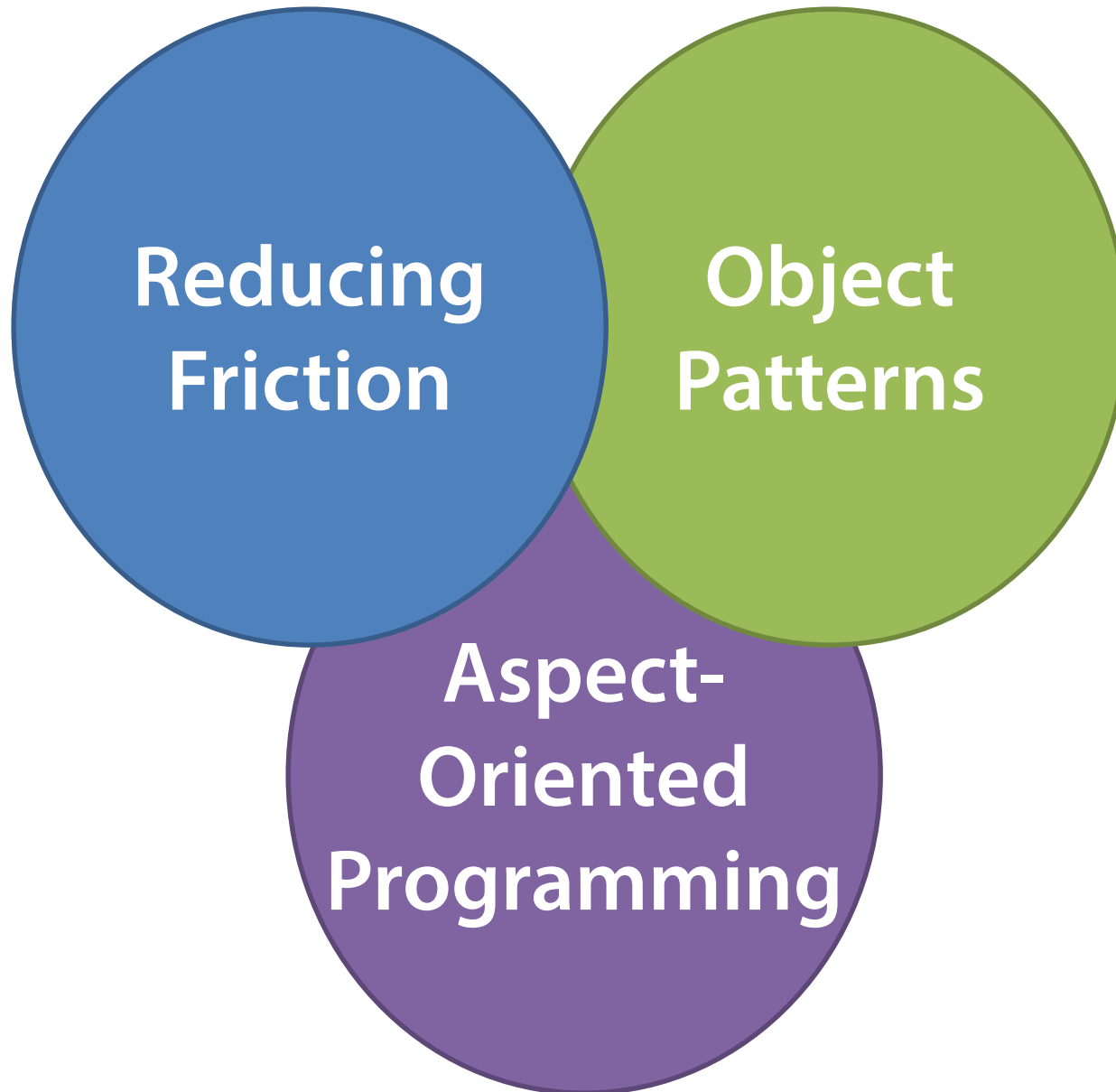


Advanced Logging Tactics

Jim Christopher
@beefarino





Reducing API Friction



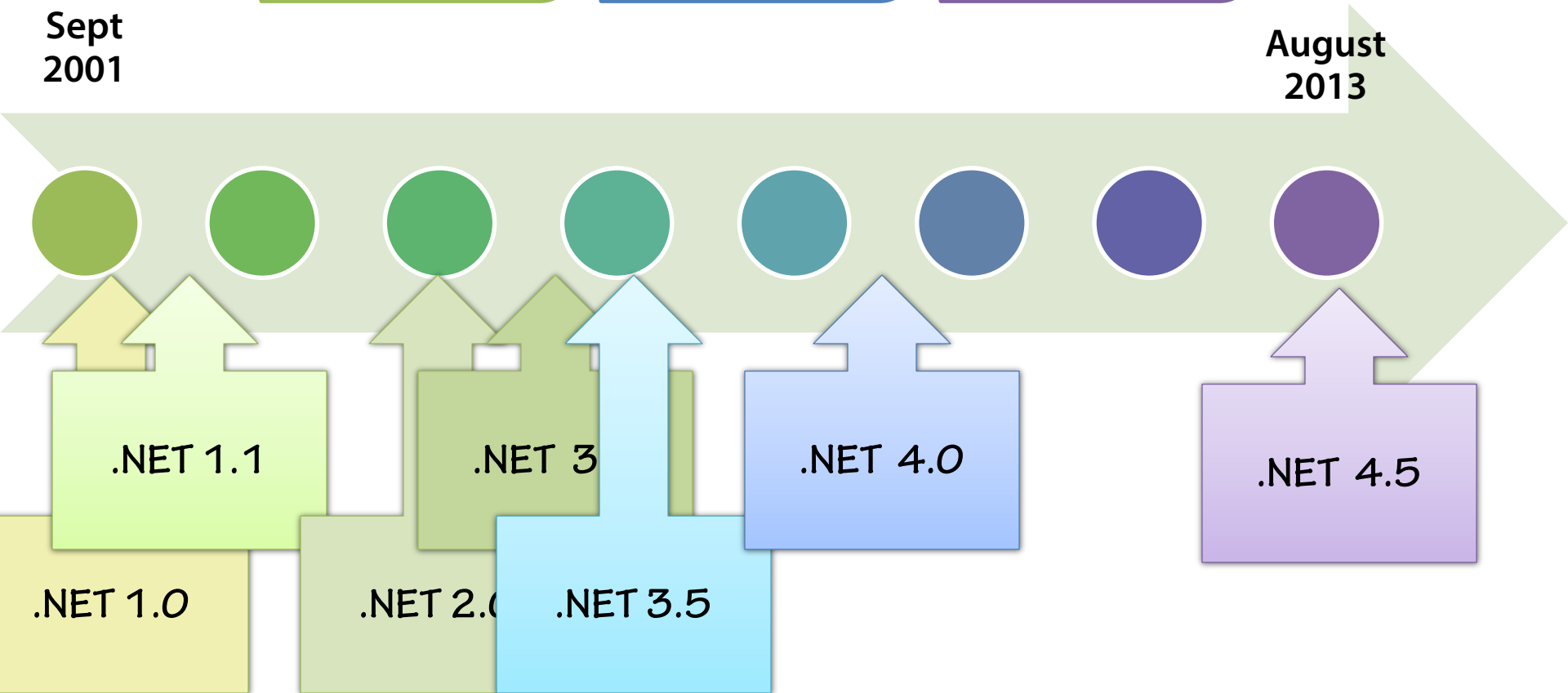
Generics

Extension
Methods

Lamba
Expressions

Sept
2001

August
2013



Generics

**Extension
Methods**

**Lamba
Expressions**

**Generic
Log Manager**

**Deferred
Logging**

**Logger
On
Demand**

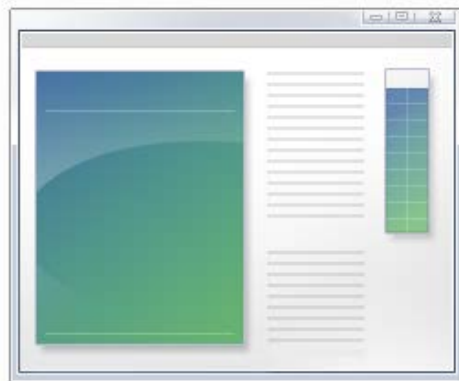
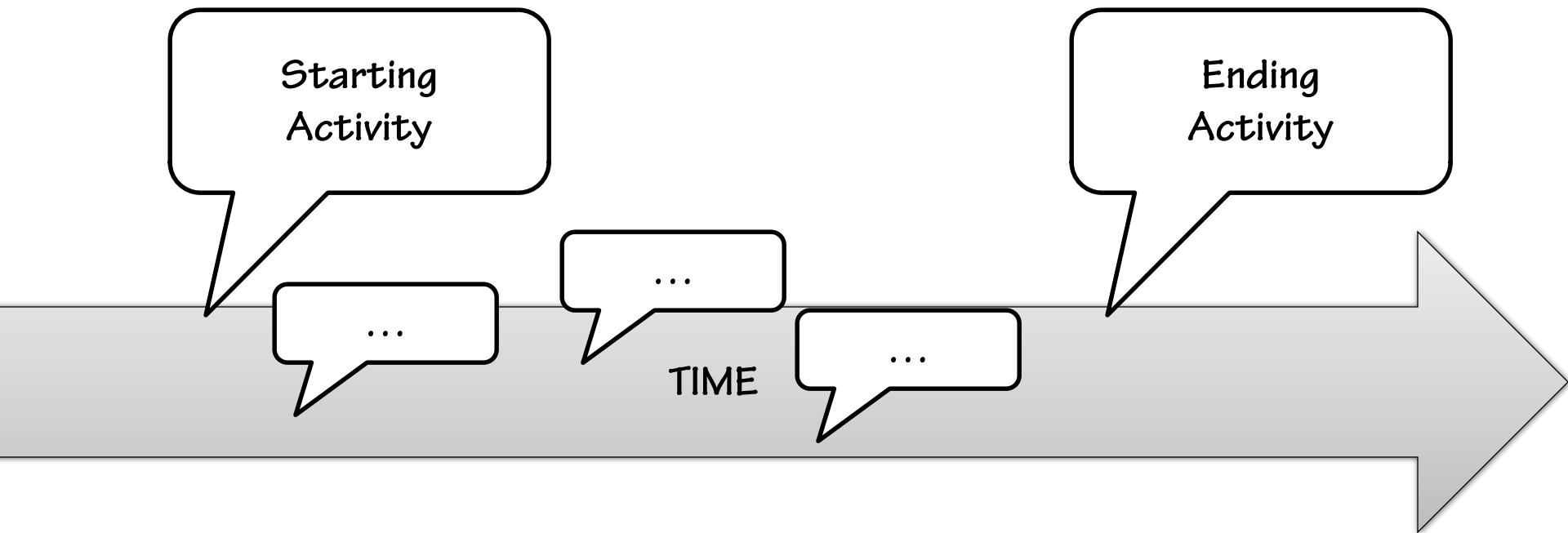
Generics

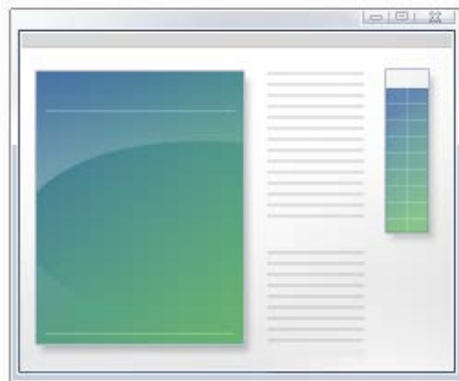
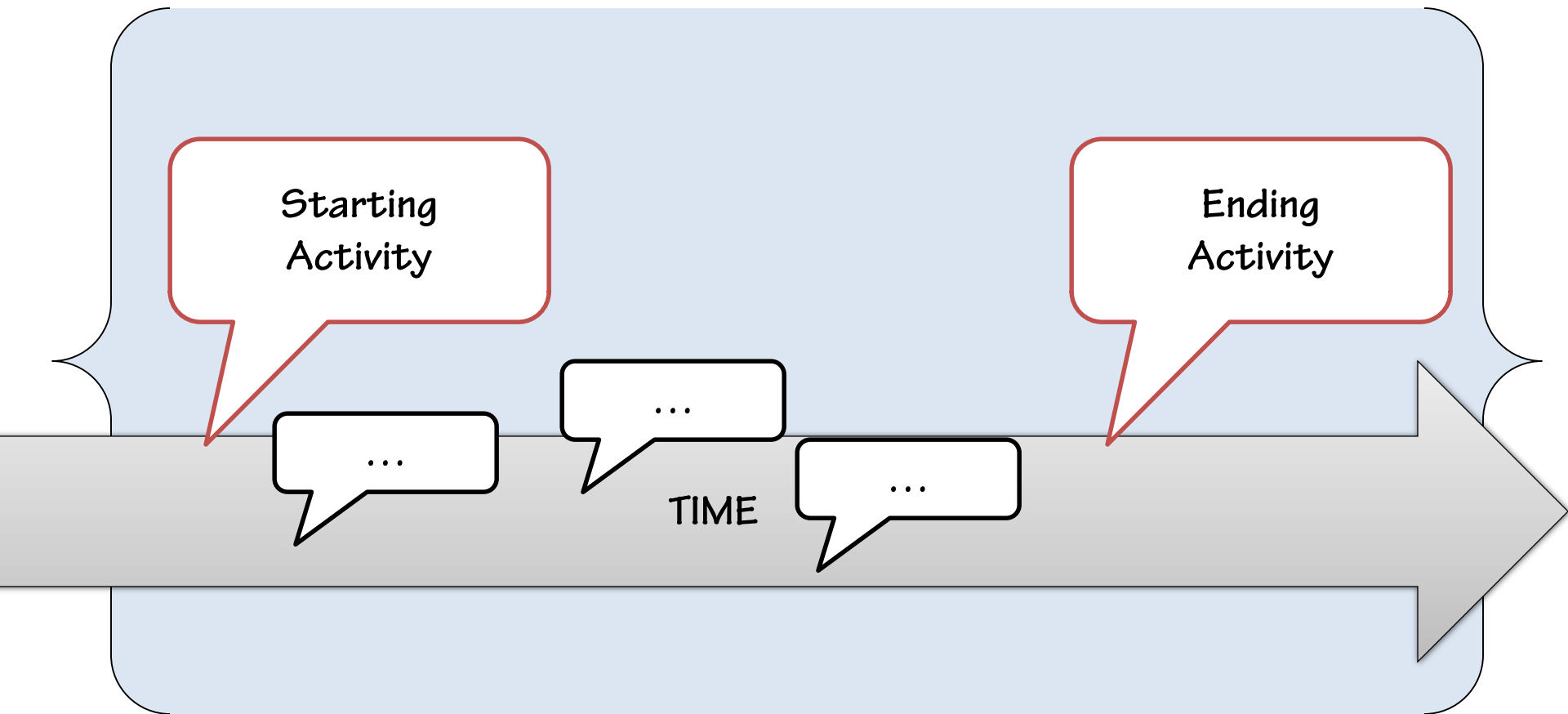
**Extension
Methods**

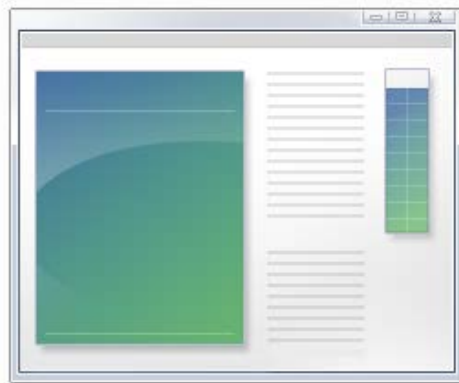
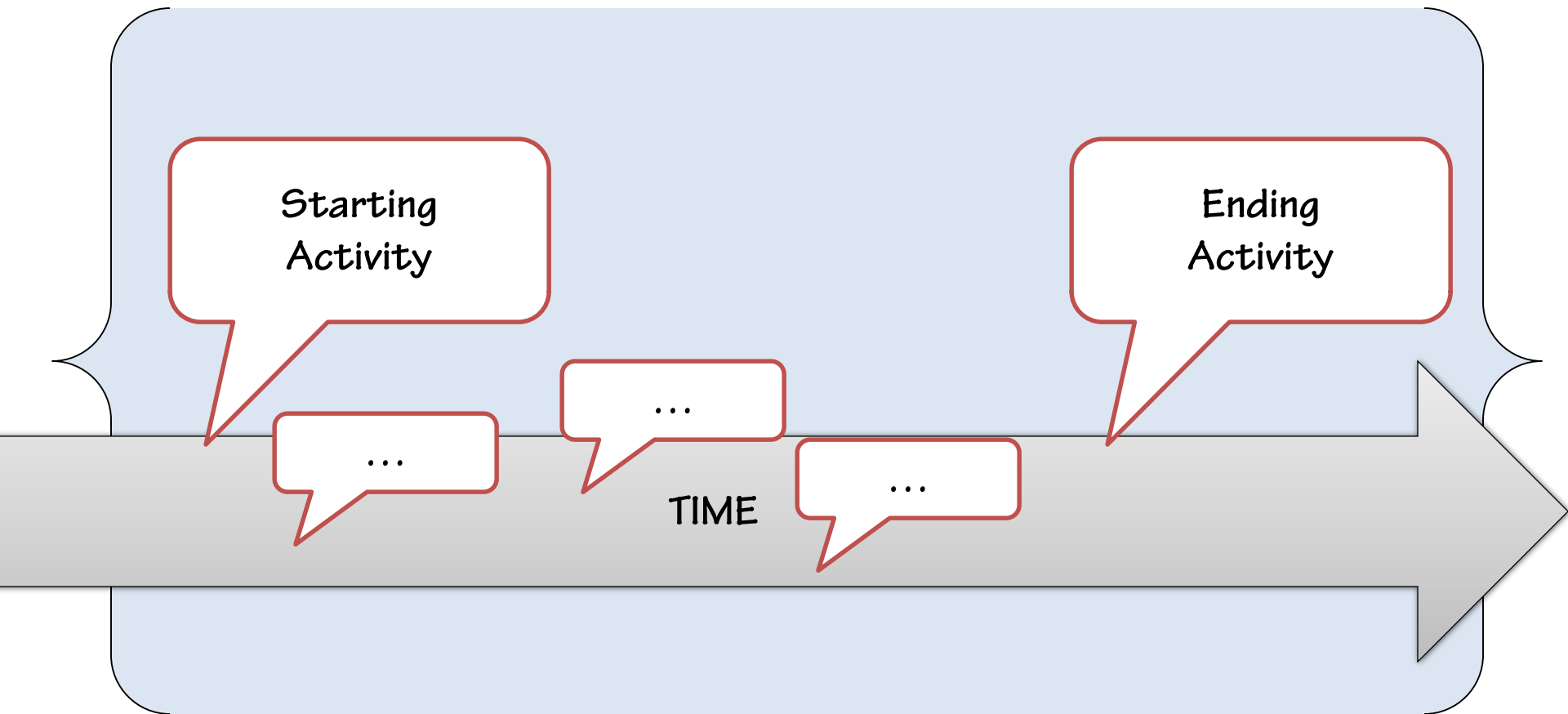
**Lamba
Expressions**

- **C# Fundamentals II by K. Scott Allen**
 - <http://bit.ly/13z0diE>

Logging with Object Patterns





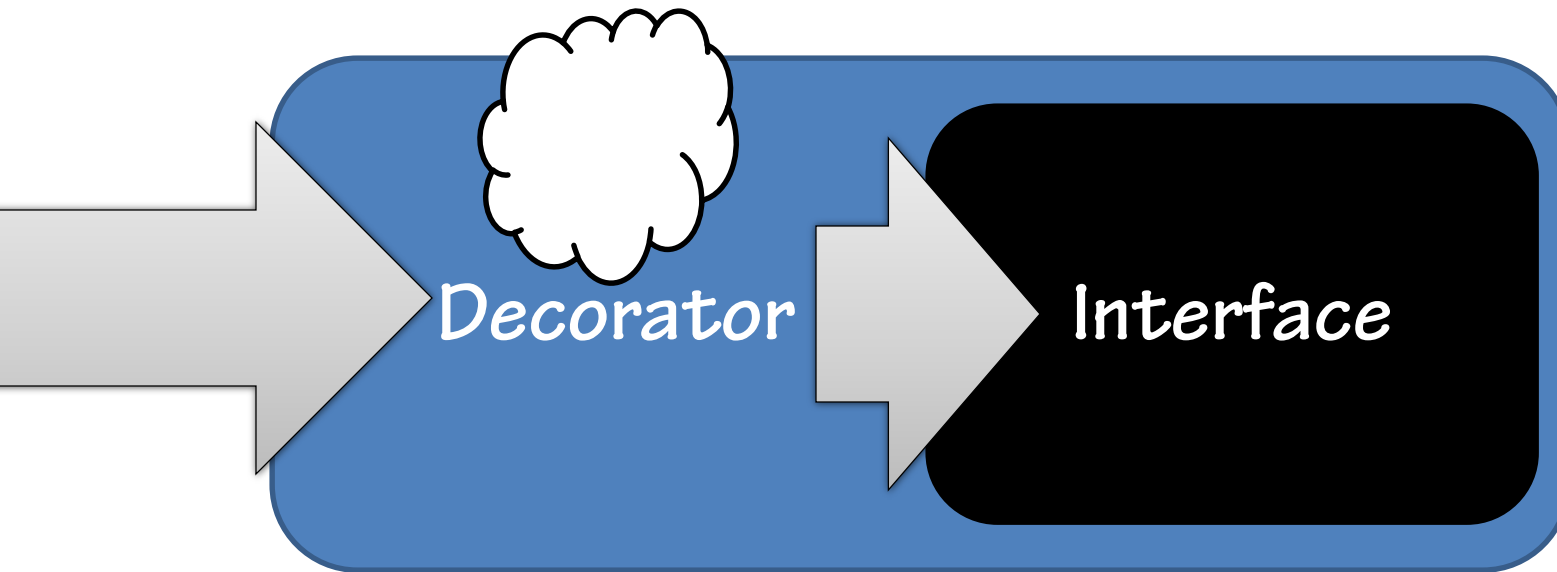


Object Patterns

- **Design Patterns Library (various authors)**
 - <http://bit.ly/SJmAX1>

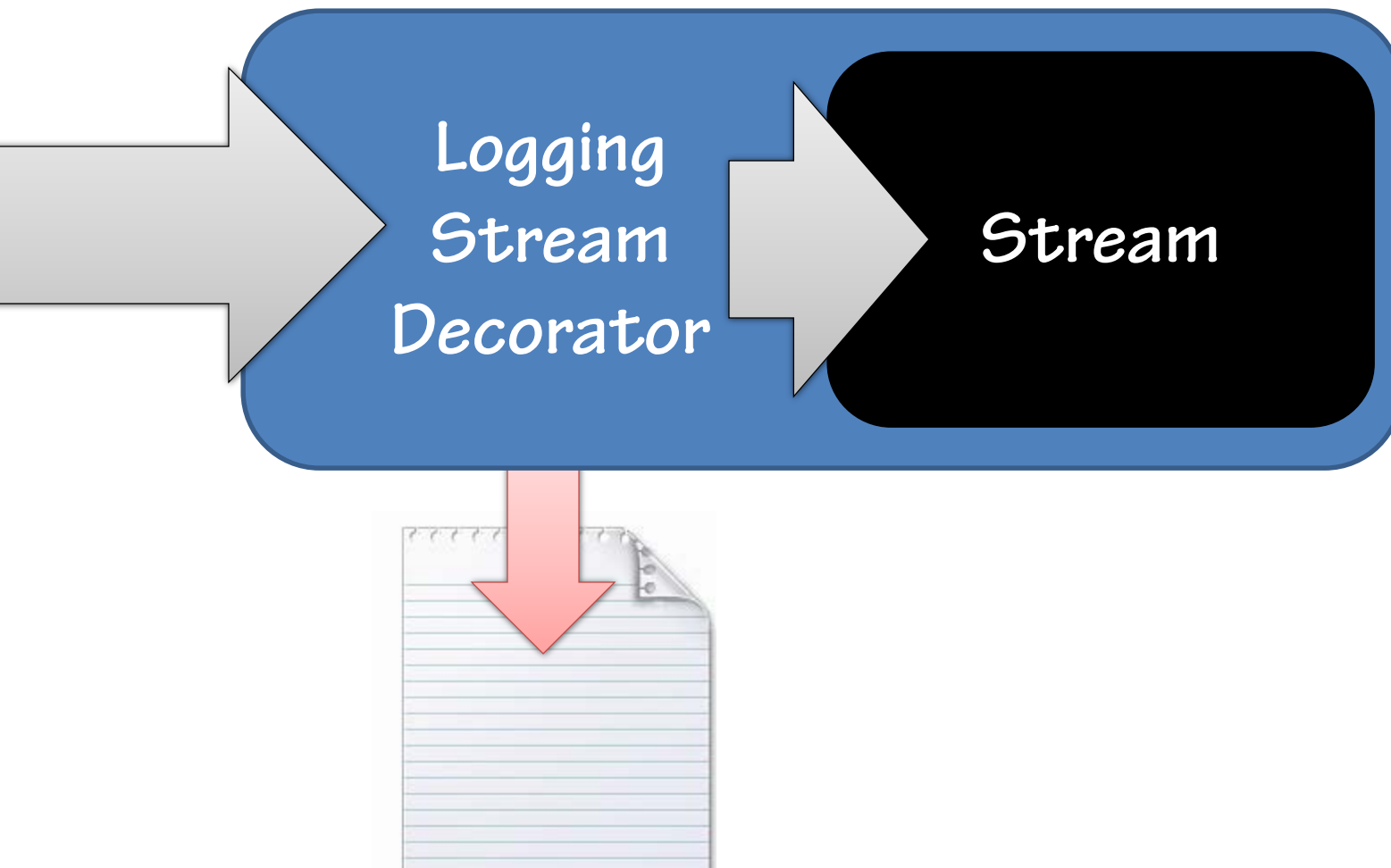


Interface



Interface

Stream



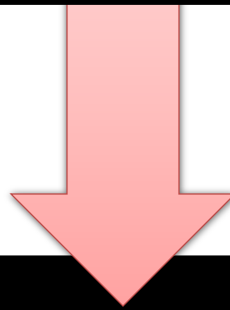


The diagram consists of a large blue rounded rectangle. Inside this rectangle, on the left side, is the text 'Logging Stream Decorator'. On the right side of the blue rectangle is a smaller black rounded rectangle containing the text 'Stream'.

Logging
Stream
Decorator

Stream

Stream

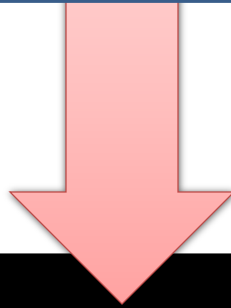


Stream
Reader

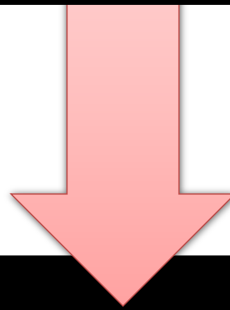
Logging
Stream
Decorator

Stream

Stream
Reader



Stream



Stream
Reader

Logging with Aspects

Logging and Instrumentation

**User
Interface**

**Business
Logic**

**Data
Access**

AOP and PostSharp Resources

Donald Belcham:

- **PostSharp Fundamentals**
 - <http://bit.ly/19hYGfU>
- **Aspect-Oriented Programing in .NET**
 - <http://bit.ly/14LGKfu>

Advanced Logging Tactics

- **Reducing Friction in the log4net API**
 - Generics
 - Extension methods
 - Lambda Expressions

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 - Making logging an aspect of each method boundary