

# Application Instrumentation with log4net

Overview

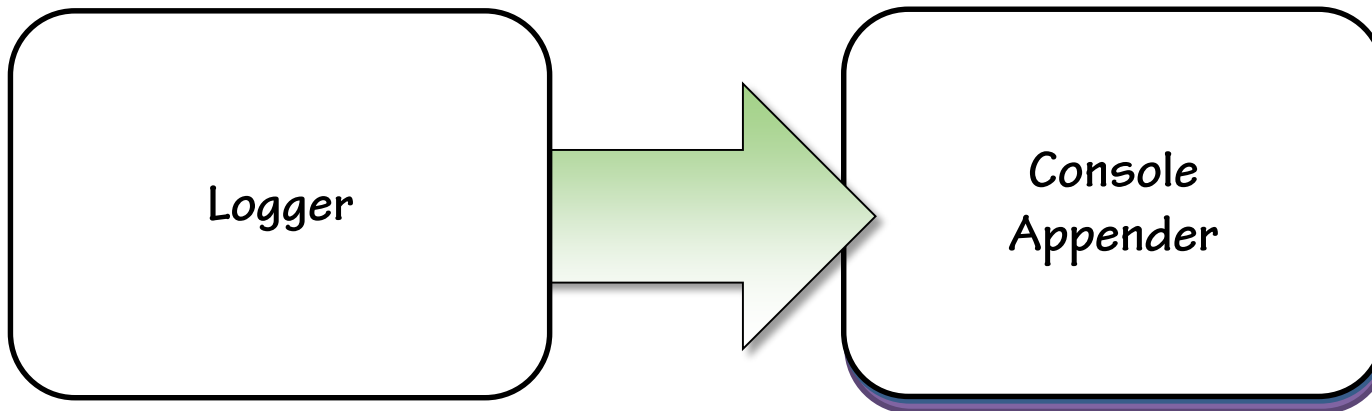
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# What You should Assume about this Course

- Logging with log4net
- Examples are Simple
- Like Objects are Interchangeable



# What I Assume about You

- **C# and .NET 3.5**
- **Desktop and Web Applications**
  - Console
  - WinForms
  - WPF
  - MVC
- **XML**



# History & Quickstart



**Configuration**



**Logger Objects**

A large, solid green arrow pointing horizontally to the right. The arrow is centered on the page. Inside the arrow, the word "Appenders" is written in a white, bold, sans-serif font. The arrow's tail is on the left edge of the frame, and its head points towards the right edge. A small portion of a purple rectangular shape is visible behind the arrow's tip on the right side.

**Appenders**



# Layouts & Patterns





Log Event Context

A large blue arrow pointing to the right, spanning most of the width of the image. The word "Filters" is written in white, bold, sans-serif font in the center of the arrow. The arrow has a thin dark blue outline. To the right of the arrow's tip, a portion of a green arrow is visible, pointing in the same direction.

**Filters**



# Effective Logging



# Advanced Logging Tactics

# Extending log4net





**Configuration**

**Logger  
Objects**

**Appenders**

**Layouts and  
Patterns**

**Log Event  
Context**

**Filters**

**Effective  
Logging**

**Advanced  
Logging  
Tactics**

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log4net**



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# log4net

- **Port of log4j**
- **First public release in 2001**
- **Apache 2.0 license**
  - <http://logging.apache.org/log4net/license.html>
- **Supported Frameworks**
  - Microsoft .NET 1.0 – 4.0
    - Client and Full profiles
  - Mono
  - CLI
- **<http://logging.apache.org/log4net/>**

# **log4net Quickstart**

# **log4net Resources**

- <http://www.beefycode.com/category/log4net.aspx>
- <http://stackoverflow.com/questions/tagged/log4net>
- <http://www.codeproject.com/Articles/140911/log4net-Tutorial>