

# Log4perl Example

## Overview

There is an excellent Log4perl tutorial at the following location.

<http://www.perl.com/pub/a/2002/09/11/log4perl.html>

The tutorial does not show how to create Log4perl Appenders that will log to a database or send an email message. The example below shows how to accomplish these things.

## Required Packages

DBI  
DBD::mysql  
Log::Dispatch  
Log::Log4perl  
Mail::Sender

## Sample Files

The `log4perl_test.pl` file:

```
##### System initialization section ###
use Log::Log4perl qw(get_logger :levels);

Log::Log4perl->init("log4perl.conf");

my $food_logger = get_logger("Groceries");

##### Run it #####
my $food = Groceries::Food->new();
my $food = Groceries::Food->new("Sushi");
$food->consume();

##### Application section #####
package Groceries::Food;

use Log::Log4perl qw(get_logger);

sub new {
    my($class, $what) = @_;

    my $logger = get_logger("Groceries::Food");

    if(defined $what) {
        $logger->debug("New food: $what");
        return bless { what => $what }, $class;
    }
}
```

```

    $logger->fatal("No food defined");
    return undef;
}

sub consume {
    my($self) = @_;

    my $logger = get_logger("Groceries::Food");
    $logger->info("Eating $self->{what}");
}

```

The `log4perl.conf` file:

```

log4perl.logger=FATAL, Email, Screen
log4perl.logger.Groceries.Food=DEBUG, DB

log4perl.appender.Screen=Log::Dispatch::Screen
log4perl.appender.Screen.stderr=0
log4perl.appender.Screen.Threshold=FATAL
log4perl.appender.Screen.layout=Log::Log4perl::Layout::SimpleLayout

log4perl.appender.Email=Log::Dispatch::Email::MailSender
log4perl.appender.Email.smtp=smtp.bogus.com
log4perl.appender.Email.subject=Log4Perl Test
log4perl.appender.Email.to=recipient@bogus.com
log4perl.appender.Email.from=test@bogus.com
log4perl.appender.Email.Threshold=FATAL
log4perl.appender.Email.layout=Log::Log4perl::Layout::SimpleLayout

log4perl.appender.Log=Log::Dispatch::File
log4perl.appender.Log.filename=test.log
log4perl.appender.Log.mode=append
log4perl.appender.Log.layout=Log::Log4perl::Layout::PatternLayout
log4perl.appender.Log.layout.ConversionPattern=%d %p %M - %m%n

log4perl.appender.DB                = Log::Log4perl::Appender::DBI
log4perl.appender.DB.datasource =
dbi:mysql:database=my_database;host=my_server
log4perl.appender.DB.username       = sa
log4perl.appender.DB.password       = s3cr3t
log4perl.appender.DB.layout         = Log::Log4perl::Layout::PatternLayout
log4perl.appender.DB.sql             = \
    INSERT INTO logtbl              \
        (log_timestamp, level, method, message) \
    VALUES ('%d', '%p', '%M', '%m')

```