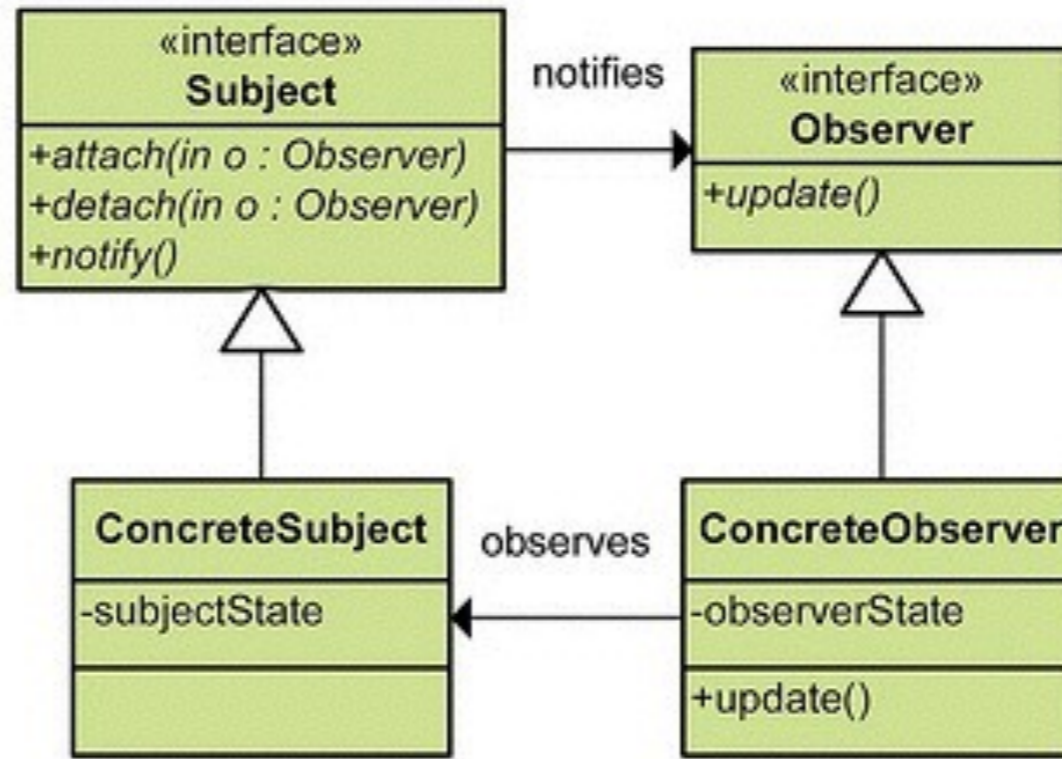


# ZF2 Events

Bart McLeod

## Observer

Type: Behavioral



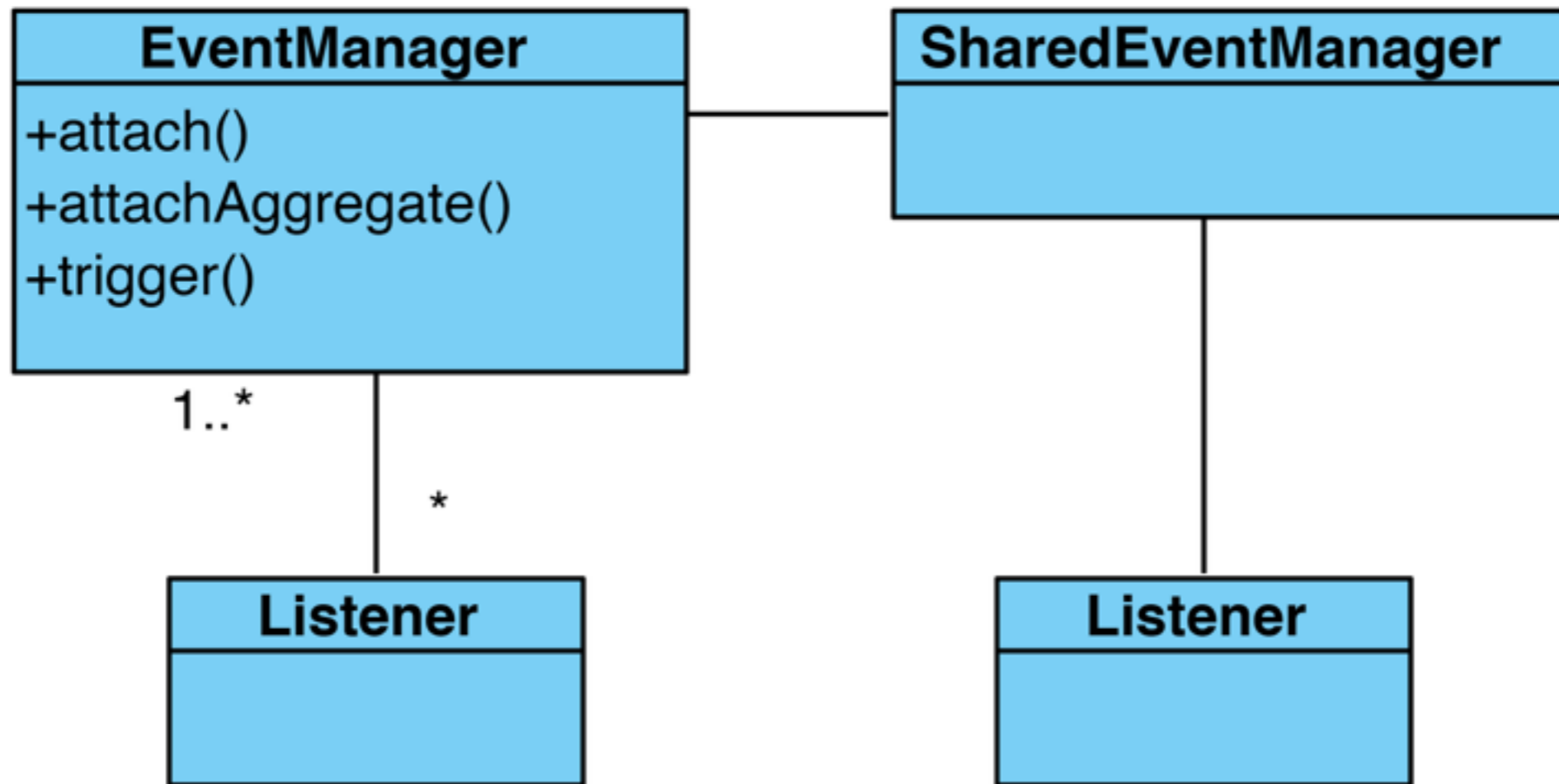
### What it is:

Define a one-to-many dependency between objects so that when one object changes state, all its dependents are notified and updated automatically.

Image credits: The 23 Gang of Four Design Patterns on flickr

# Publish-subscribe

Also known as: Observer



# Publish-subscribe

As applied in ZF2

Why care?

Cuz it's flexible

( and fun too )

GitHub, Inc. [US] <https://github.com/zendframework/ZendSkeletonApplication>

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Sample application skeleton using the ZF2 MVC layer <http://framework.zend.com/zf2>

514 commits 1 branch 25 releases 74 contributors

branch: master ZendSkeletonApplication / +

Merge pull request #253 from samsonasik/autoload-checkmoved

Ocranius authored on 18 Mar latest commit 67cbbb618

config	Remove module_listener_options since autoloaded config don't apply	a year ago
data/cache	Small view tweaks, gitignore update, and error phtml path	3 years ago
module/Application	Merge pull request #244	7 months ago
public	update bootstrap	9 months ago
vendor	Updated ZF2 submodule to latest master	a year ago
.gitignore	Ignore vendor/bin	2 years ago
.gitmodules	Update index.php and Application\Module to make composer use optional	2 years ago
LICENSE.txt	update bootstrap	9 months ago
README.md	No need to move to public directory.	10 months ago

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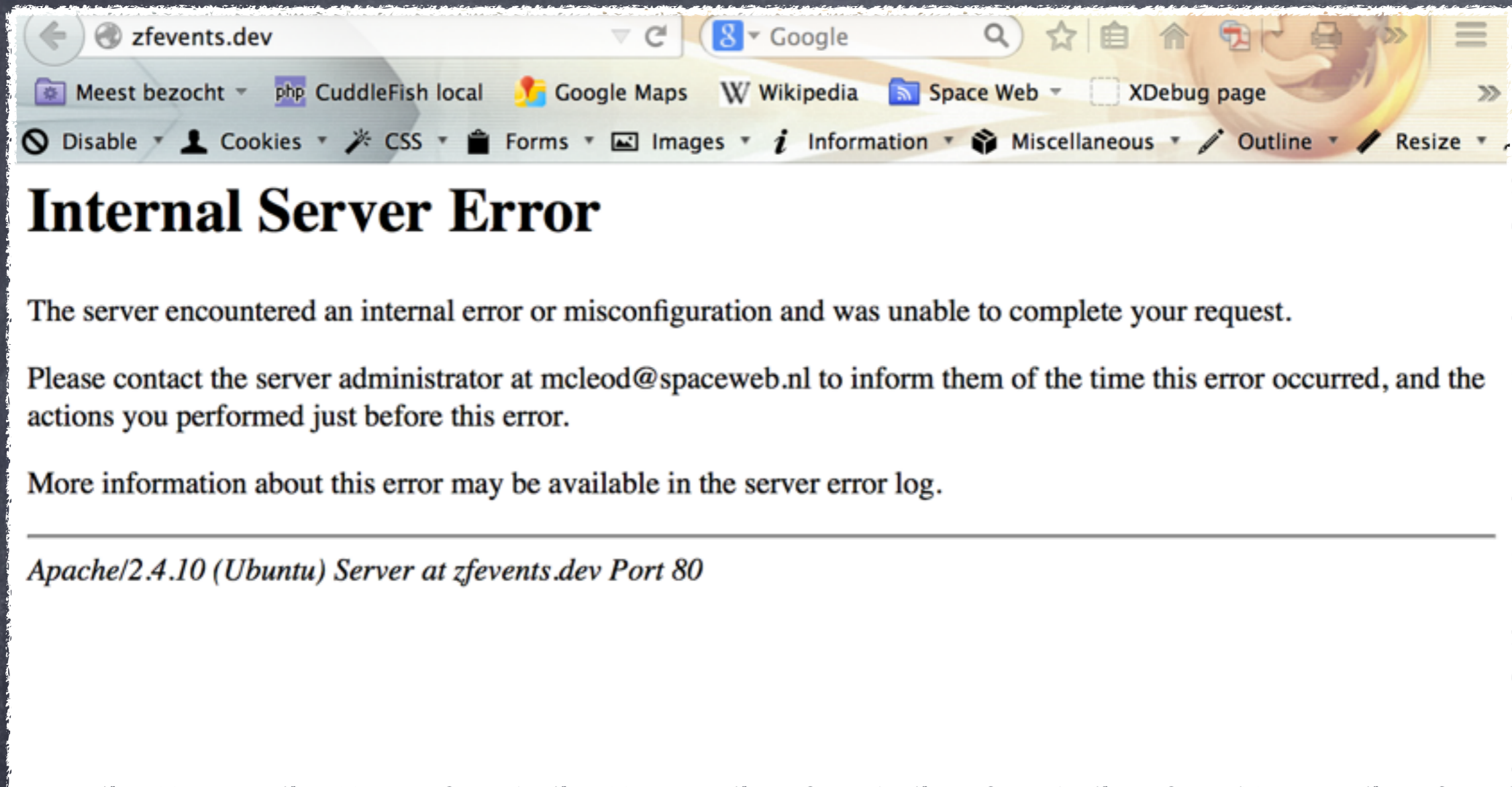
# ZendSkeletonApplication

is our starting point

# Composer

is a dependency manager for php

```
{  
  "require": {"zendframework/skeleton-application": "dev-master"}  
}
```



The result!

spoiler: mod\_rewrite



Better

# Events

- Built-in
- Custom

```
class MvcEvent extends Event
{
    /**#@+
     * Mvc events triggered by eventmanager
     */
    const EVENT_BOOTSTRAP           = 'bootstrap';
    const EVENT_DISPATCH            = 'dispatch';
    const EVENT_DISPATCH_ERROR      = 'dispatch.error';
    const EVENT_FINISH              = 'finish';
    const EVENT_RENDER              = 'render';
    const EVENT_RENDER_ERROR        = 'render.error';
    const EVENT_ROUTE               = 'route';
    /**#@-*/
}
```

# MVC events

defined in Zend\Mvc\MvcEvent

# Time for action

- Log a dispatch error
- We use the default 'Application' module
- and a filesystem log (text file)
- <http://zfevents.dev/hello>

# SharedEventManager vs EventManager

You might want to read:

<http://www.michaelgallego.fr/blog/2013/05/12/>

[understanding-the-zend-framework-2-event-manager/](http://www.michaelgallego.fr/blog/2013/05/12/understanding-the-zend-framework-2-event-manager/)

# Controlling access

- Install ZfcUser
- Deny access to Restricted module using the dispatch MVC event
- `Module::onBootstrap` is triggered by the MVC application
- <http://zfevents.dev/restricted>

# A Custom event

- Trigger the 'log' event
- Handle the 'log' event by writing a log message

# Recap

- ZF2 events are both triggered and handled server side
- ZF2 events implement the Observer or PubSub (Publish-subscribe) pattern
- There are many built-in events
- MVC Events are the most common of the built-in events
- You can trigger and handle your own events

# We did not cover

- Event short-circuiting
- Listener aggregates
- EventManagerAwareInterface
- You might want to read [http://  
www.michaelgallego.fr/blog/2013/05/12/  
understanding-the-zend-framework-2-  
event-manager/](http://www.michaelgallego.fr/blog/2013/05/12/understanding-the-zend-framework-2-event-manager/)

Thank you!

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