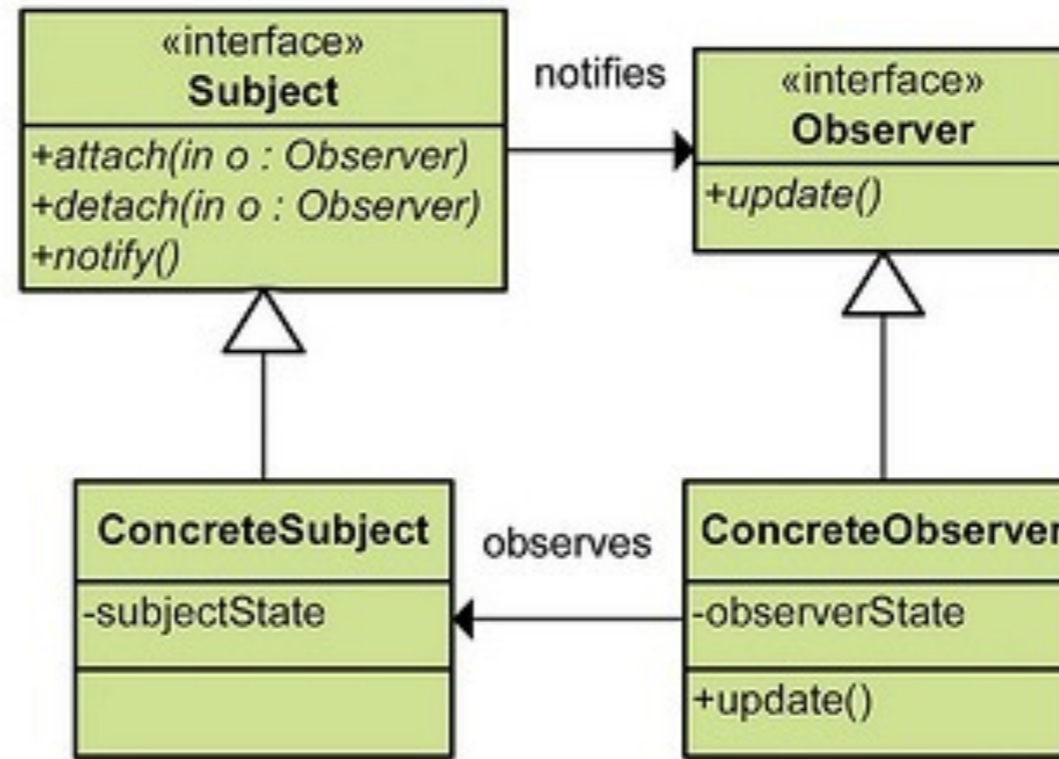


ZF2 Events

Bart McLeod

Observer

Type: Behavioral



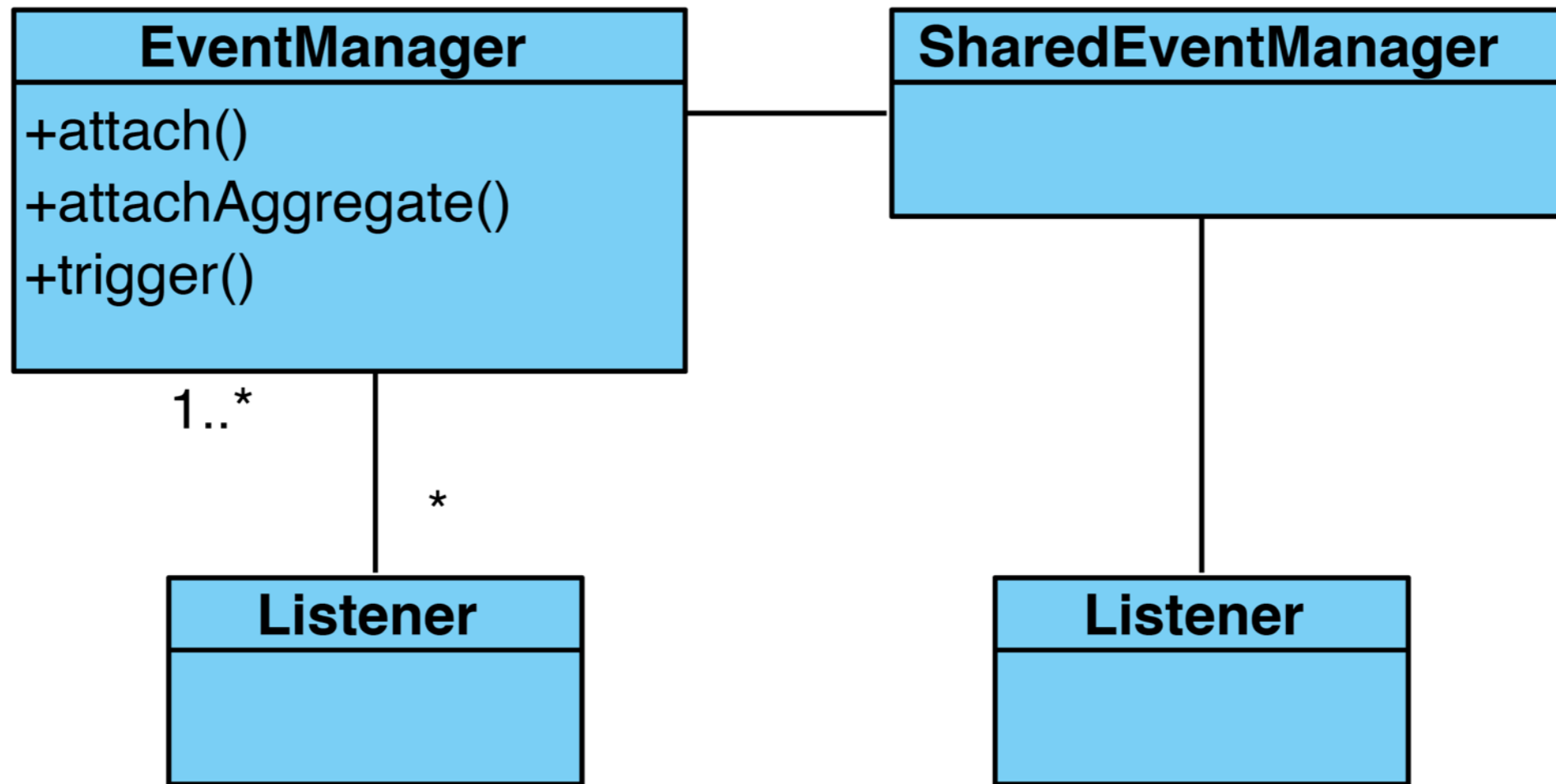
What it is:

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>

Apps werk Inloggen Rabo Intern Introduction to the Z Zend Framework Horseback Riding - Goedkoopste vliegtic » Andere bladwijzer

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zendframework / **ZendSkeletonApplication** Watch 228 Star 1,192 Fork 1,342

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

Ocramius authored on 18 Mar latest commit 67cbbb618

| | | |
|--------------------|---|---------------|
| config | Remove module_listener_options since autoloading 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 |

Code

Issues 8

Pull Requests 13

Wiki

Pulse

Graphs

SSH clone URL

git@github.com:zer

You can clone with [HTTPS](#), [SSH](#), or [Subversion](#).

Clone in Desktop

Download ZIP

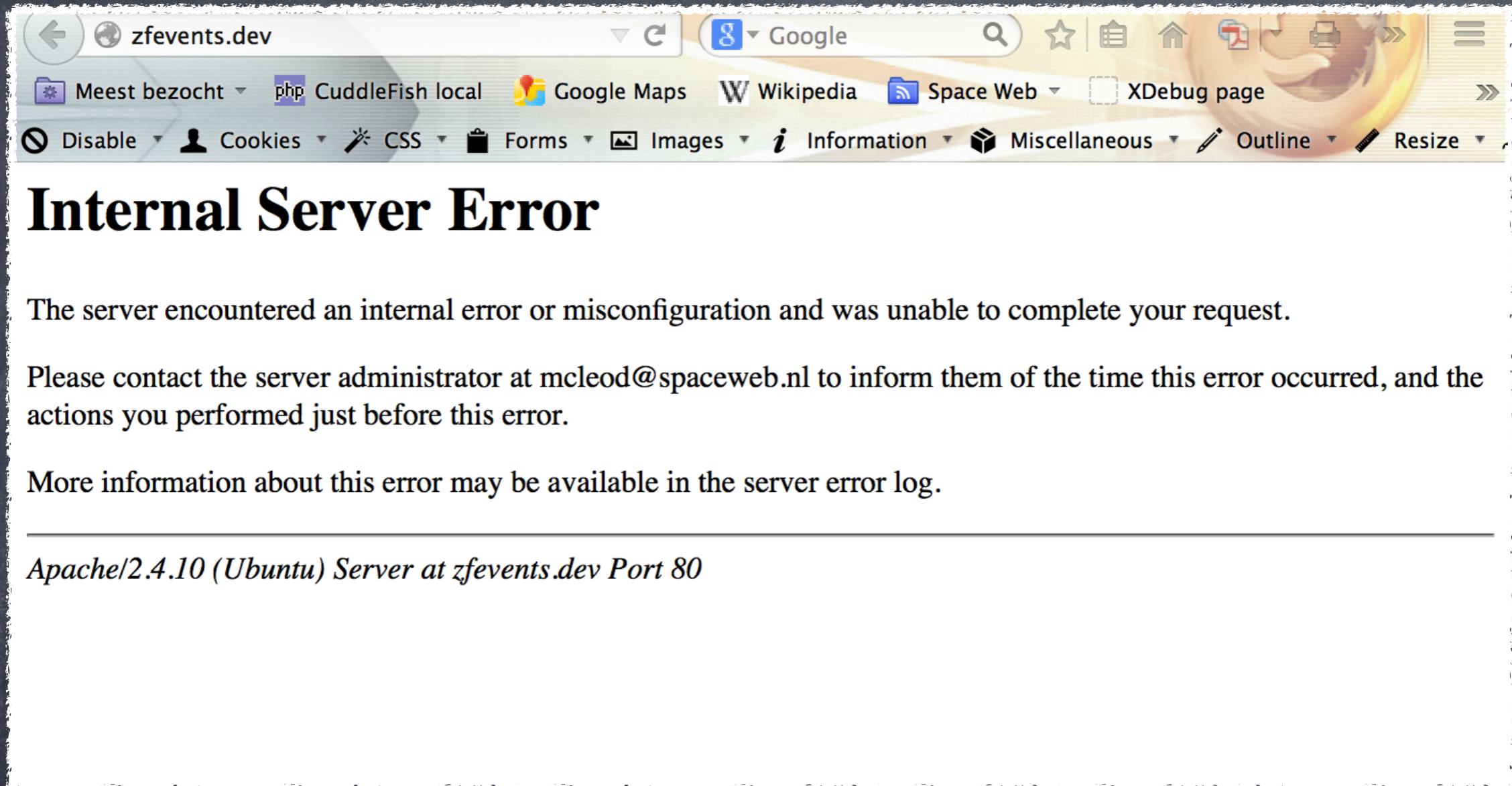
ZendSkeletonApplication

is our starting point

```
Terminal Shell Wijzig Weergave Venster Help
zfevents — bash — 156x45
Grunt 1 Grunt 2 vagran...xample ... bash root@1...2fb5: ~ bash vagran...vailable bash bash
Last login: Thu Sep 18 09:14:42 on ttys007
You have mail.
bartmcleod@isle-of-skye ~/vagrant-vmware/webapps/zfevents $
```

Composer

is a decency manager for php



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
- <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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