

# Factory Pattern with PHP

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# *What is Factory Pattern?*

RTFM:

**Design Patterns by GoF**

<http://www.amazon.com/gp/product/0201633612>

Note:

Factory Pattern **~!=** Abstract Factory Pattern

# *Implementations of Factory Pattern among PHP-based applications*

- Database Frameworks
- PHP Frameworks: Zend, Symfony, etc.

```
$db = Zend_Db::factory('Pdo_Mysql', array(  
    'host'    => '127.0.0.1',  
    'username' => 'webuser',  
    'password' => 'xxxxxxxx',  
    'dbname'  => 'test'  
));
```

# Do's

\$object = **Factory::load(\$type)**;

public **static** load();

private or "virtual" constructor

Object interfaces for subclasses

# Don'ts

\$object = new Factory(); **X**

\_\_construct() **X**

public function method(); **X**

# *Typical implementation in PHP*

```
class Factoria {  
  
    public static function load($type){  
        switch($type){  
            case "yat":  
                $object = new YAT();  
                break;  
            case "yafb":  
            default:  
                $object = new YAFB();  
                break;  
        }  
        return $object;  
    }  
}
```

# Typical implementation in PHP

```
$yafb = Factoria::load("yafb");  
$yafb->poke("Bing.com me up Scotty");
```

---

```
$yat = Factoria::load("yat");  
$yat->tweet("Bing.com me up Scotty");
```

*\*We are not done yet! Notice the method names?*

# Using Object Interfaces

```
class interface iStatus{  
    public function myMindSays(){  
    }  
}
```

---

```
class YAT implements iStatus{  
    ...  
    public function myMindSays(){  
        return $this->tweet();  
    }  
}
```

---

```
class YAFB implements iStatus{  
    ...  
    public function myMindSays(){  
        return $this->poke();  
    }  
}
```

# Using Object Interfaces

```
$yafb = Factoria::load("yafb");  
$yafb->myMindSays("Bing.com me up Scotty");
```

---

```
$yat = Factoria::load("yat");  
$yat->myMindSays("Bing.com me up Scotty");
```

# Further reading

- Abstract Factory Pattern (PHP Sample Code)  
[http://sourcemaking.com/design\\_patterns/abstract\\_factory](http://sourcemaking.com/design_patterns/abstract_factory)
- Polymorphism