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PHP Sevilla 020 - Refactoring

13 June 2017

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fe(x)t | what's coming
next festival

↑ SevillaUP



SVQXDG

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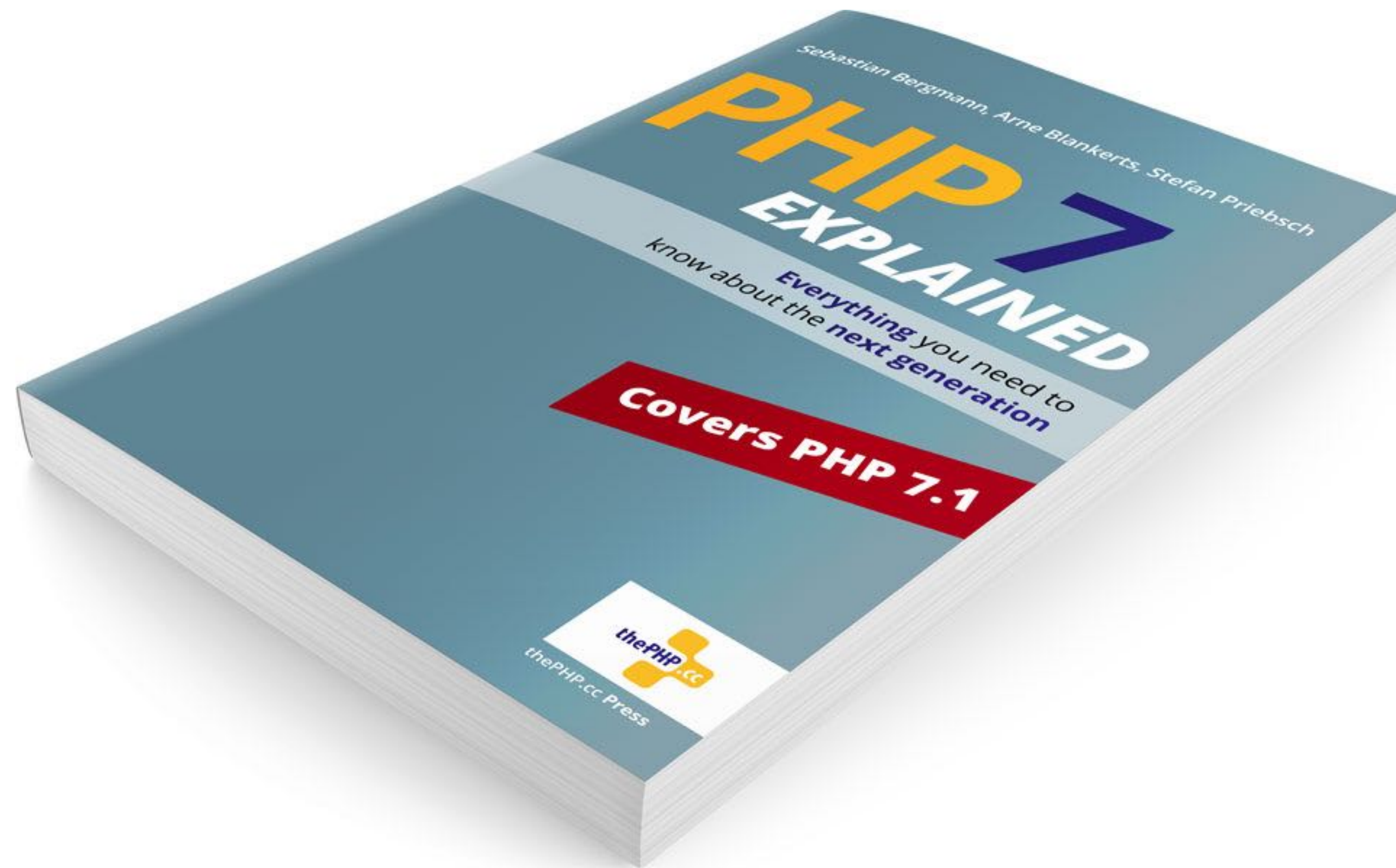
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Con ánimo de mejorar, nos encantaría recibir feedback.
No te llevará más de 2 minutos. <http://buff.ly/2njOJMd>

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<https://php7explained.com/>

PHPSevilla can be used ten times for a **20% discount** for the "PHP 7 Explained" eBook

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¿Refactoring?

código mal estructurado

switch interminables

legacy code

código sin tests

código espagueti

ficheros de 1000 lineas

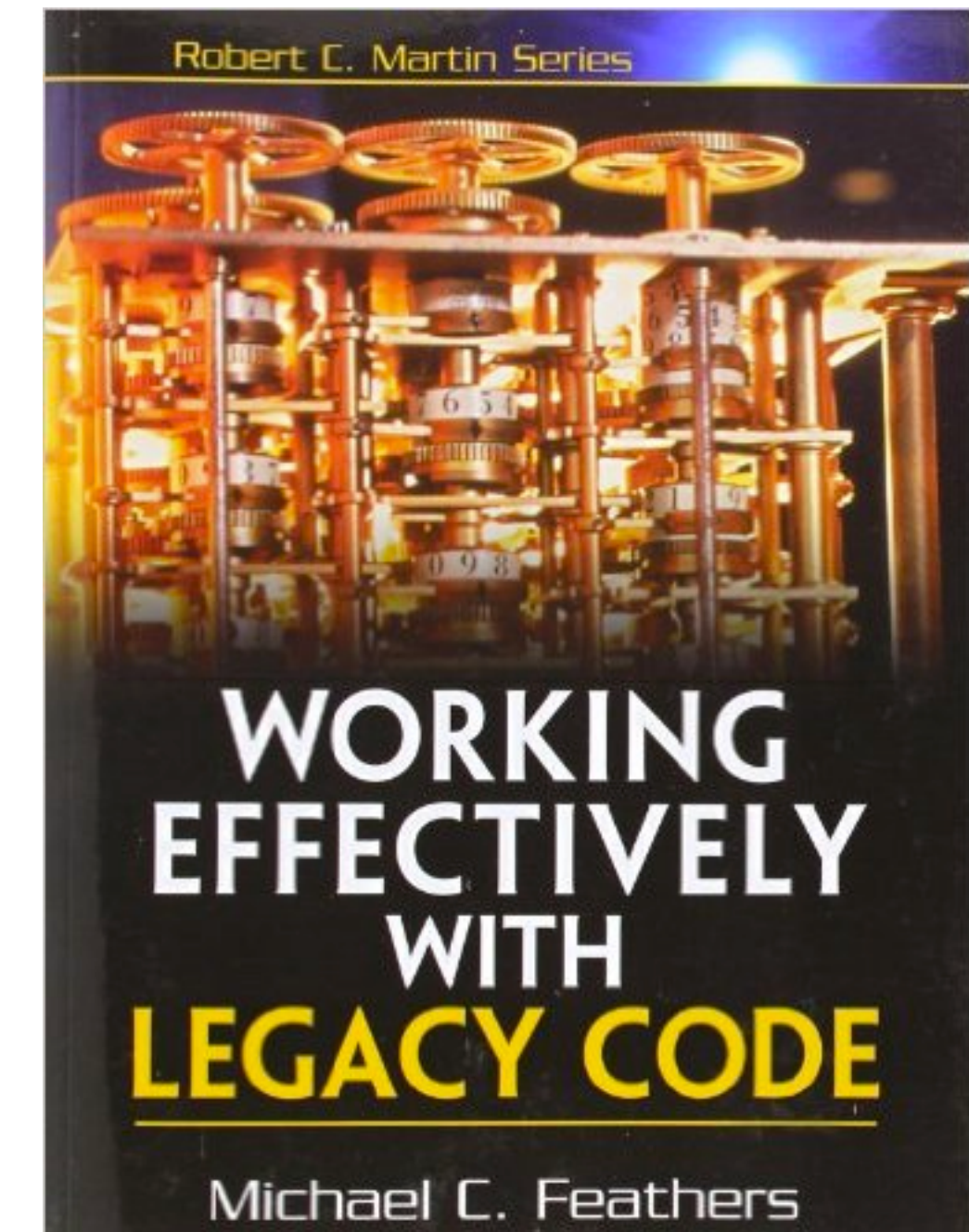
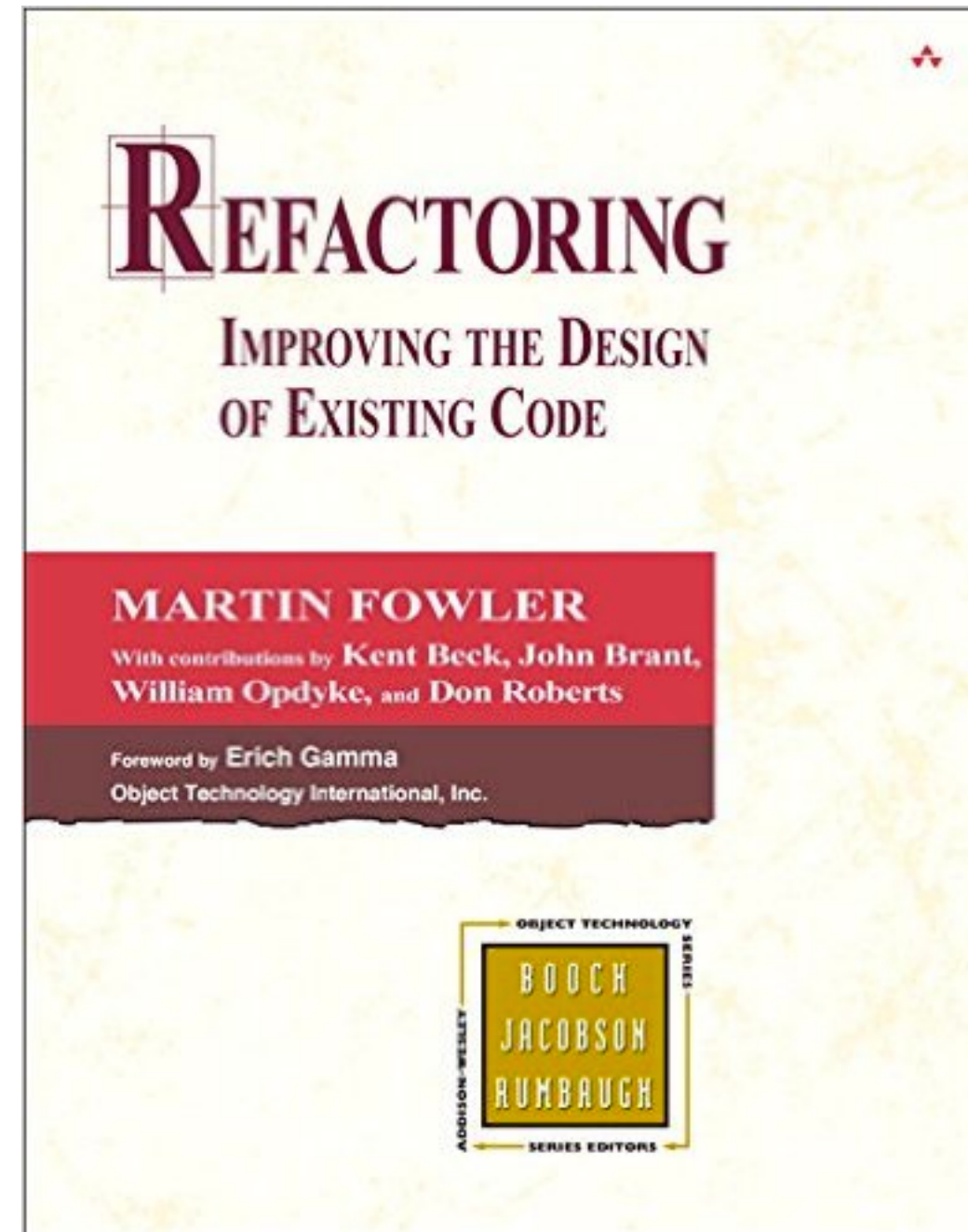
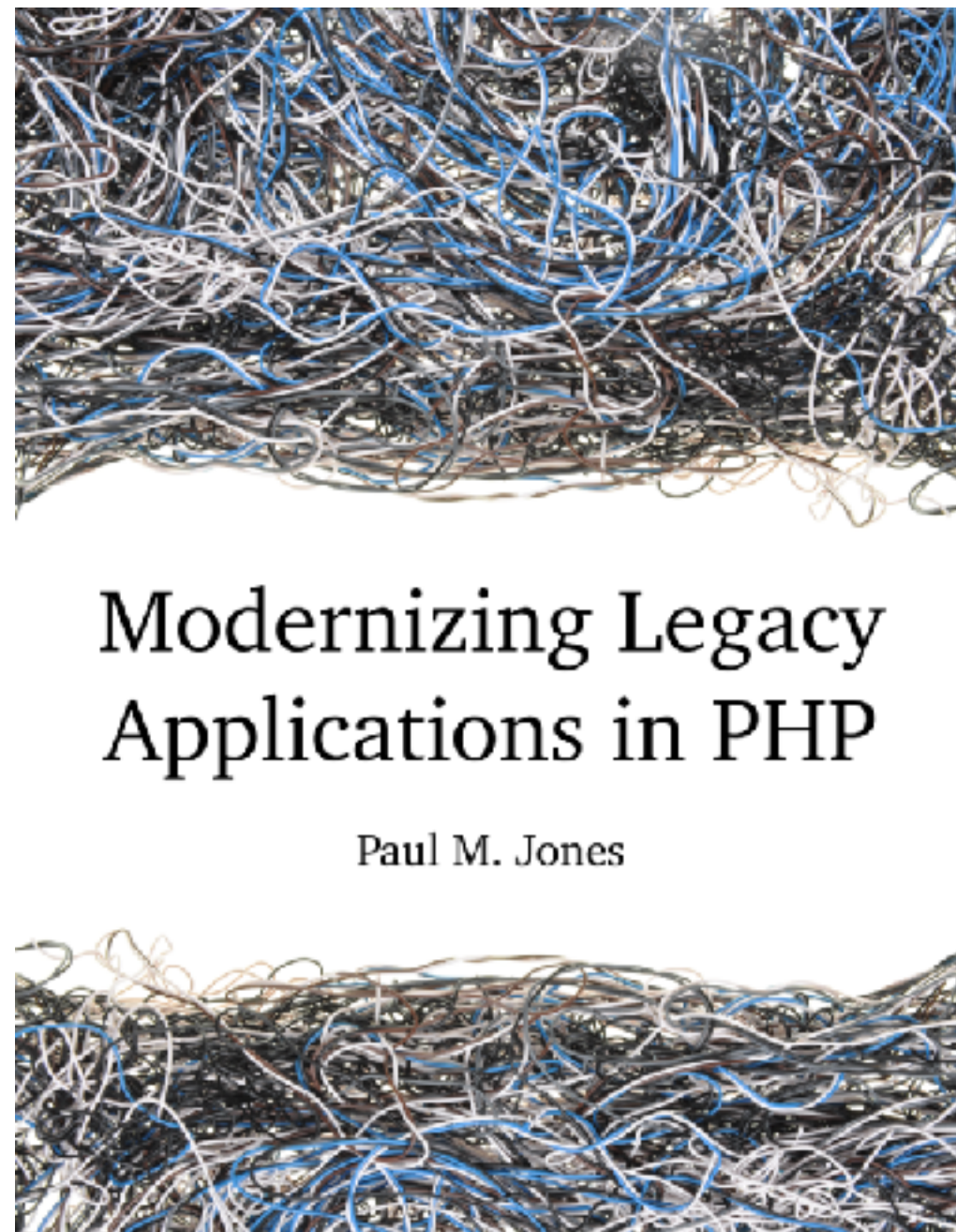
controladores gigantes

...is a disciplined technique for restructuring an existing body of code, altering its internal structure without changing its external behavior.

refactoring.com

“a change made to the internal structure of software to make it **easier** to **understand** and **cheaper** to **modify** without changing its observable behavior.”

Martin Fowler



<https://refactoring.guru>

VALOR

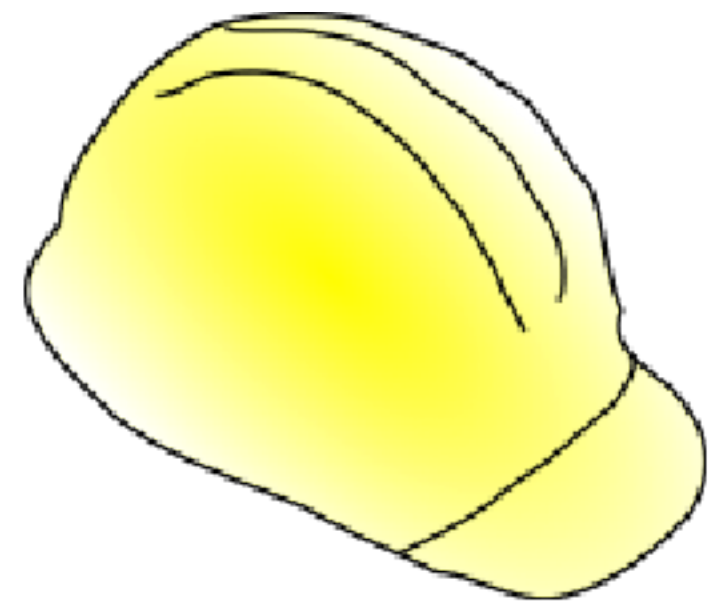
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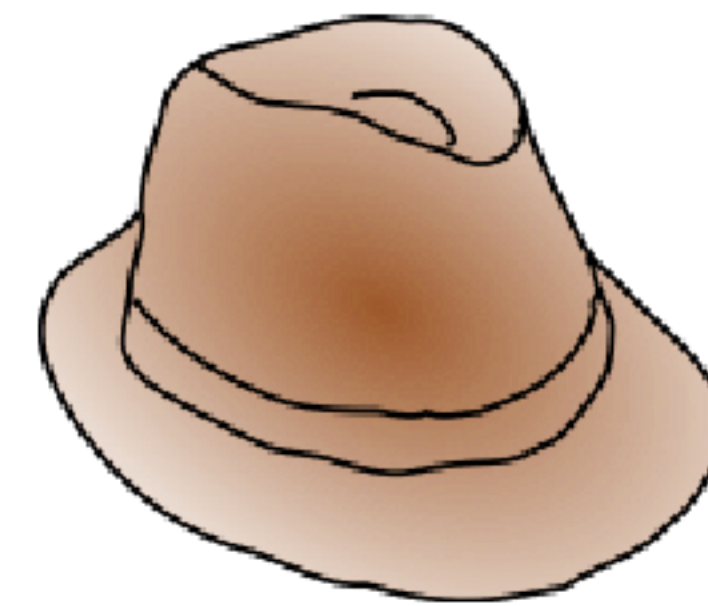
es "**limpiar**" el sistema mediante la mejora de la legibilidad, estructura y la claridad del código.

Simplificar el código

Ganar legibilidad



Adding
Function

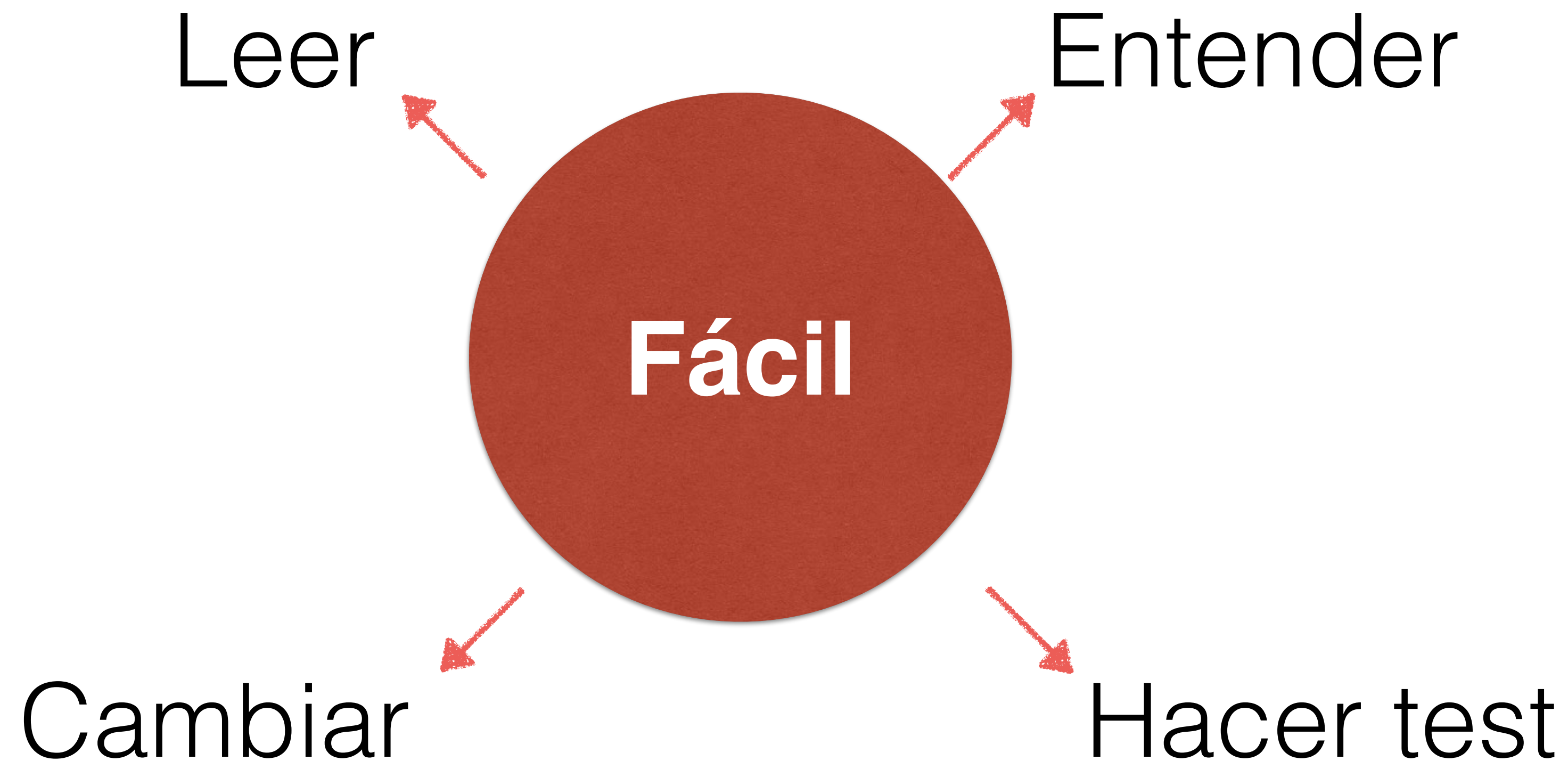


Refactoring

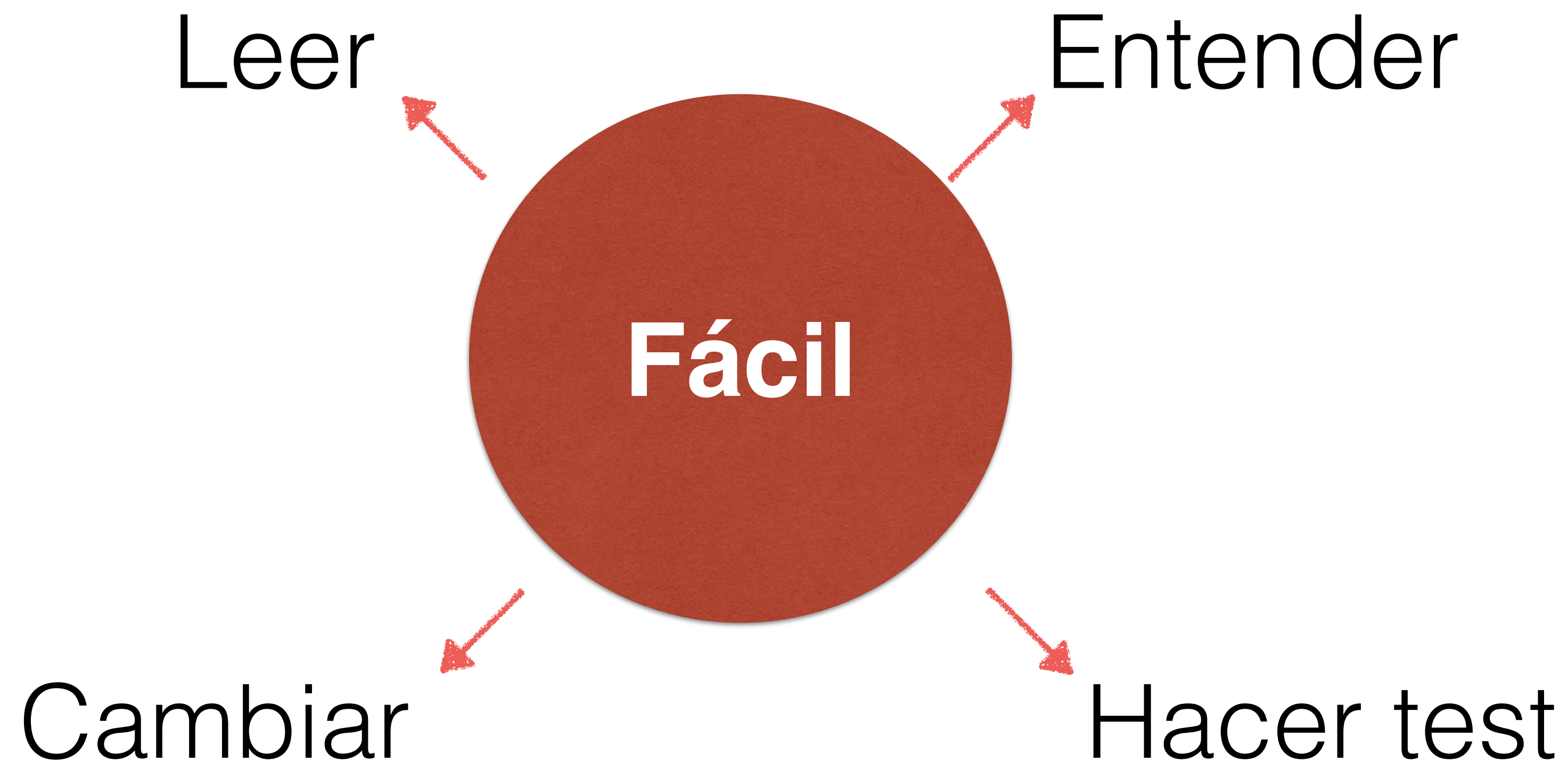
- Escribir nuevas funcionalidades es más sencillo
- Mejora el rendimiento a medio plazo
- Hace más estable la aplicación
- Previene caries
- Simplifica el on boarding

```
public function getPrice()
{
    switch ($this->type) {
        case self::ELECTRIC: return $this->getBasePrice();
        case self::DIESEL:
            return $this->getBasePrice()
                + ($this->getBasePrice()
                    * $this->getTaxes());
        case self::GASOLINE:
            return ($this->getYear() > 1975) ? $this->getBaseOldPrice() : $this->
                getBasePrice() + 300;
    }
}
```

Clean code



Clean code



IDE

Git

PHP-CS-Fixer

Composer

Test

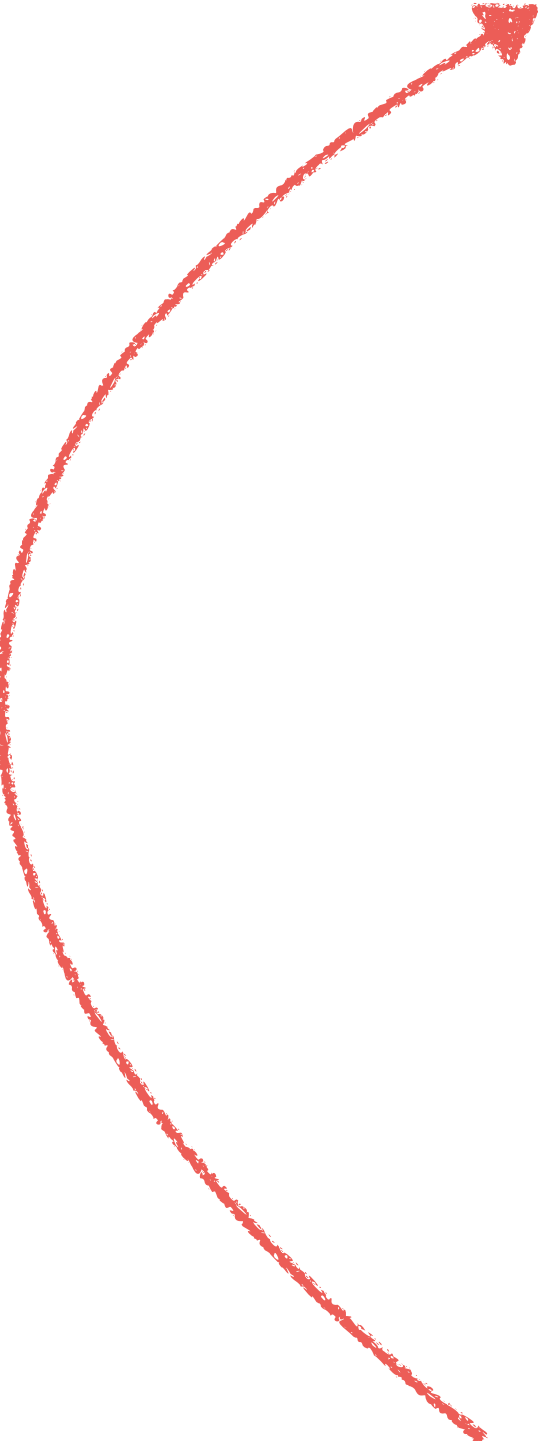
Baby steps

Paciencia

Focus

Pragmático

Metódico

- 
1. Tener tests
 2. Comprobar que están en verde
 3. Identificar el smell
 4. Aplicar Técnica
 5. Comprobar que los test siguen en verde

When we refactor, we should have tests. To put test in place, we often have to refactor

PHP-CS-Fixer

```
php php-cs-fixer.phar fix /path/to/file
```

```
function getPage($data)
```

```
function startProcess()
```

```
$tr->process('site.login');
```

```
function processResponseHeadersAndDefineOutput($response)
```

```
function getPage($data)
```

fetchPage(...) downloadPage(...)

```
function startProcess()
```

fork, create, beging...

```
$tr->process('site.login');
```

¿table row?




```
function processResponseHeadersAndDefineOutput($response)
```

```
public function isKM0()  
{  
    $year = date( format: 'Y' );  
  
    return ( $this->perfil_concesionario_id != 0 && $this->perfil_concesionario_id != null  
            && $this->km <= 5000 &&  
            ( $year - $this->ano_matriculacion ) < 3 && $this->ano_matriculacion <= $year );  
}
```

```
public function isKm0()
{
    $year = date( format: 'Y' );

    $isDealer = (self::DEALER == $this->getDealerType());
    $lessThanKm = $this->getKm() <= self::MAX_KM;
    $lessThanYear = ($year - $this->getRegistrationYear()) < self::MAX_YEAR
        && $this->getRegistrationYear() <= $year;

    return $isDealer && $lessThanKm && $lessThanYear;
}
```


- Código difícil de entender  Naming
- Magic Numbers  Extract Constant
- Métodos largos  Extract Method
- Clases largas  Encapsular

Coding standard

Katas

Baby Steps

No mezclar

SHOW ME THE CODE

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Videoclub

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Muchas gracias

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NETWORK**BEER**