

MADS
S7: TDD
(Bloque 2 - XP)

El tweet de la semana



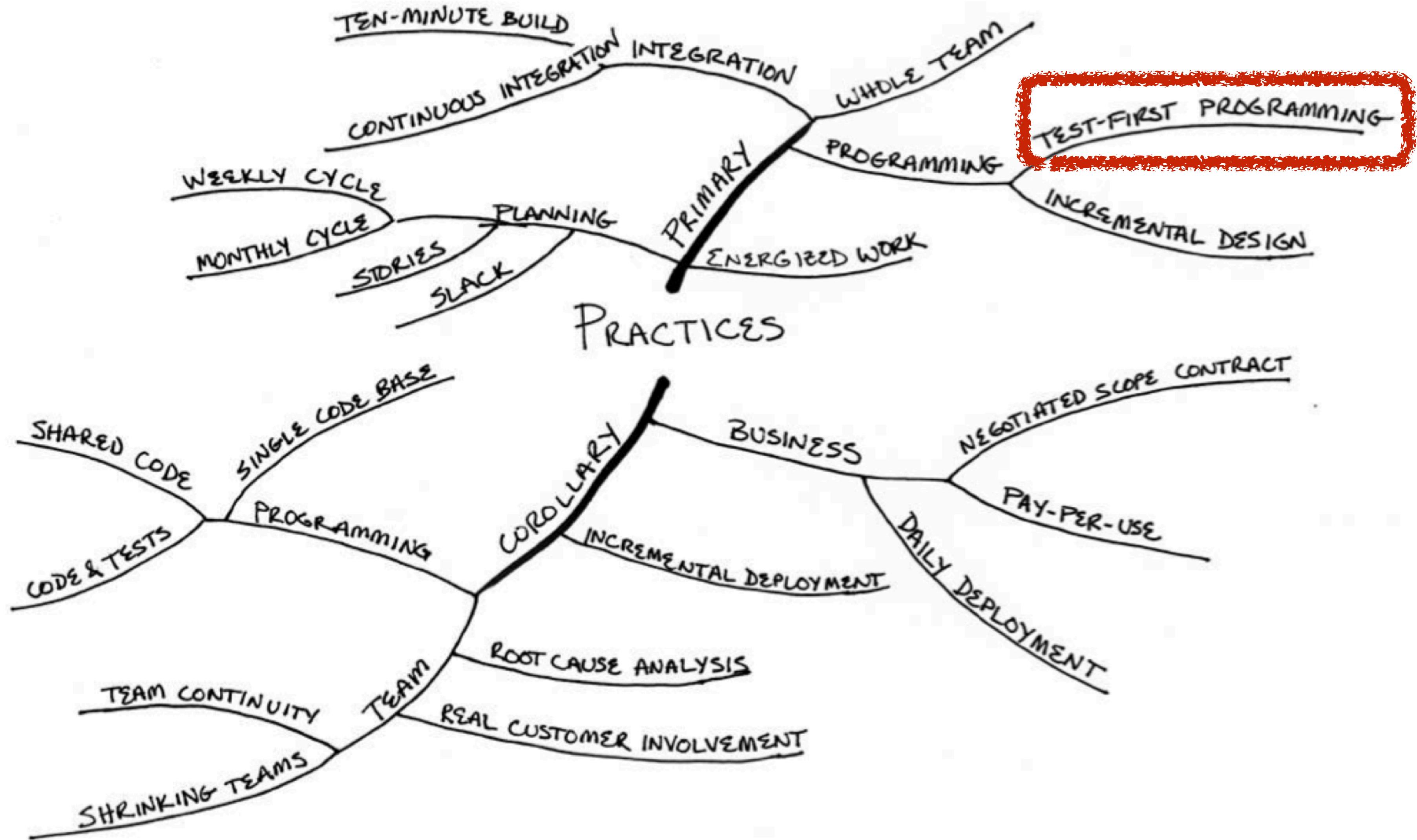
Julio César Pérez @jcesarperez · Aug 28, 2021

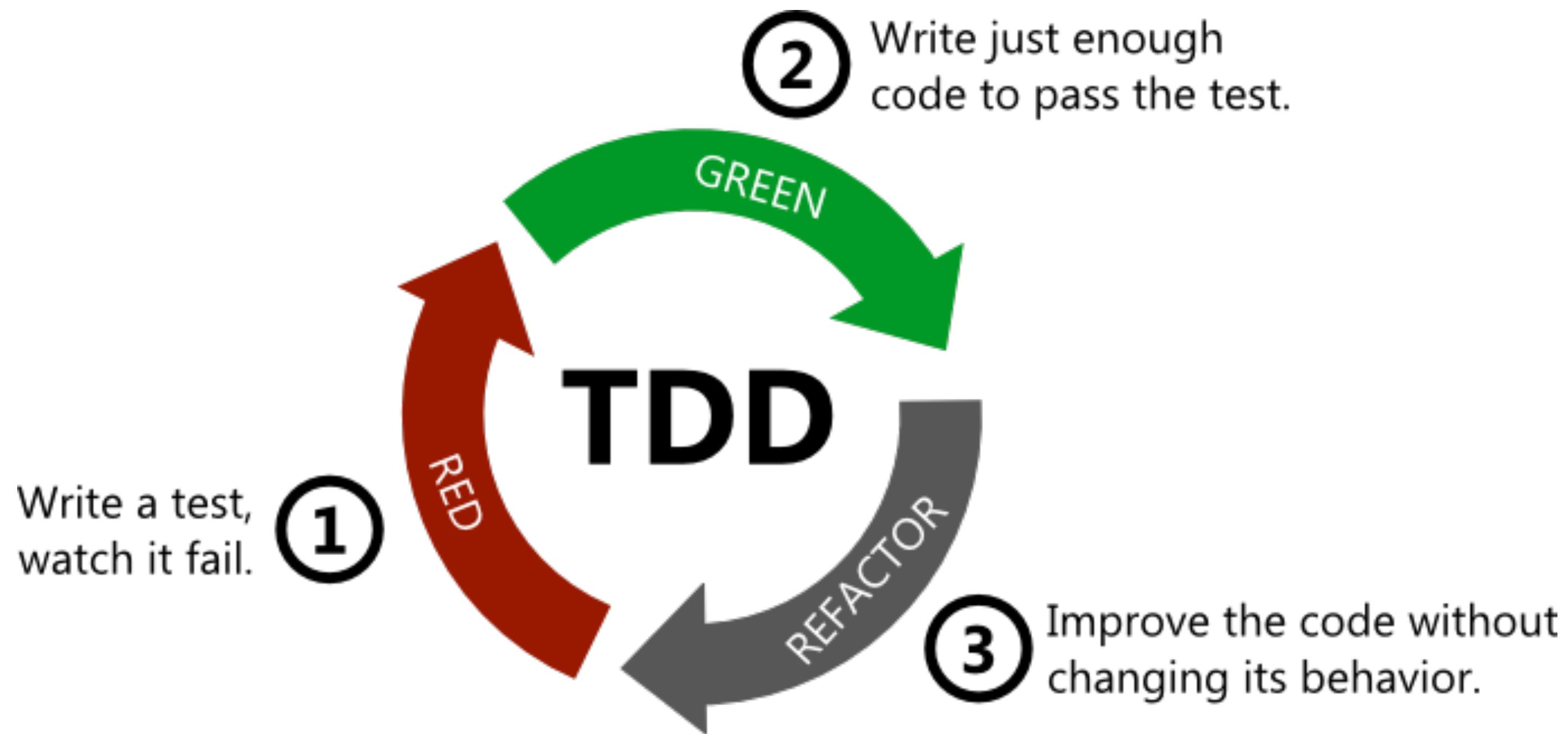
Para dominar TDD tendrás que desarrollar varias heurísticas.

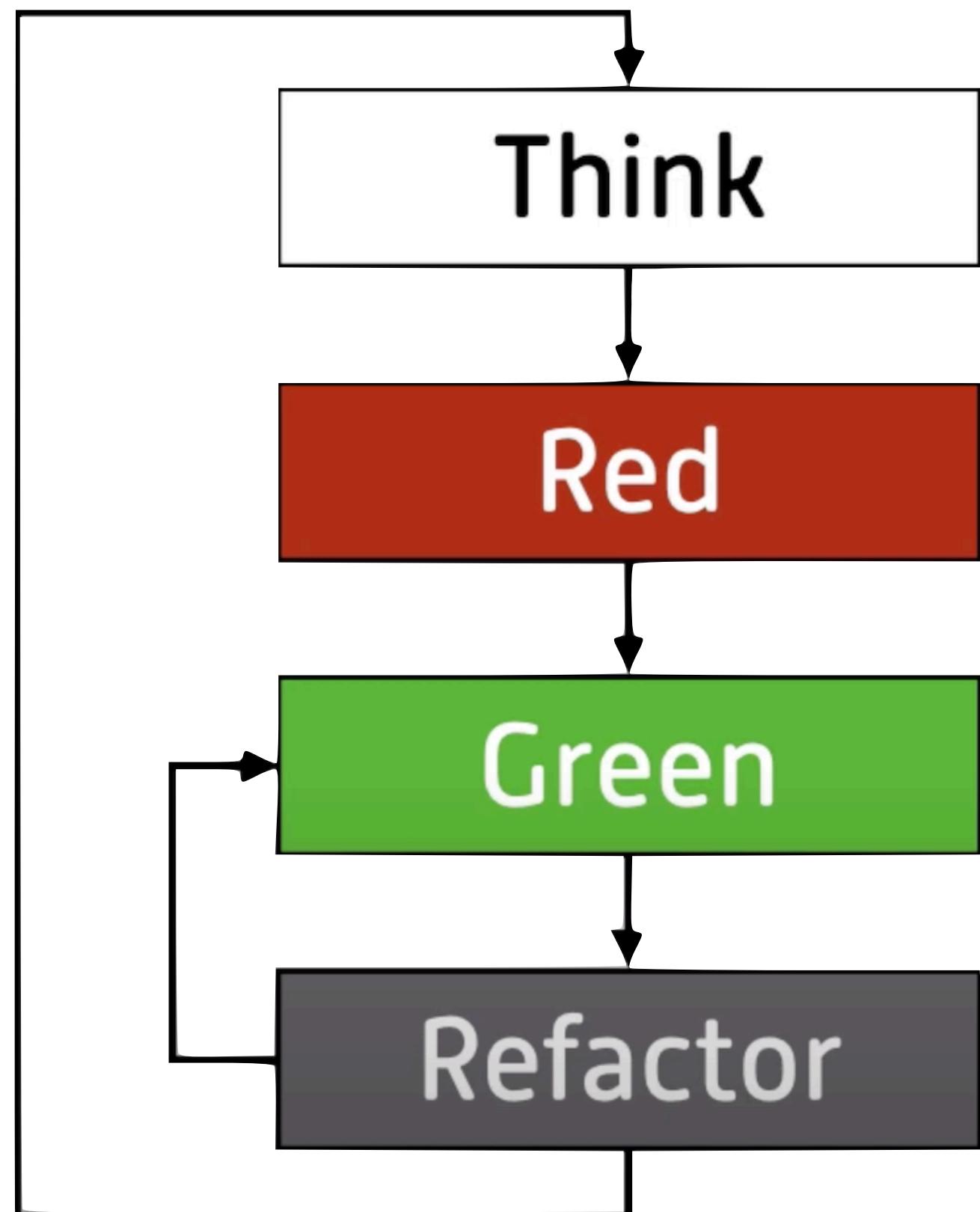
...

Qué test hacer ahora?
Qué comportamiento probar?
Qué tipo de test usar?
Mockear o no?
Cuánto código de aplicación escribir?
Cuánto refactorizar?

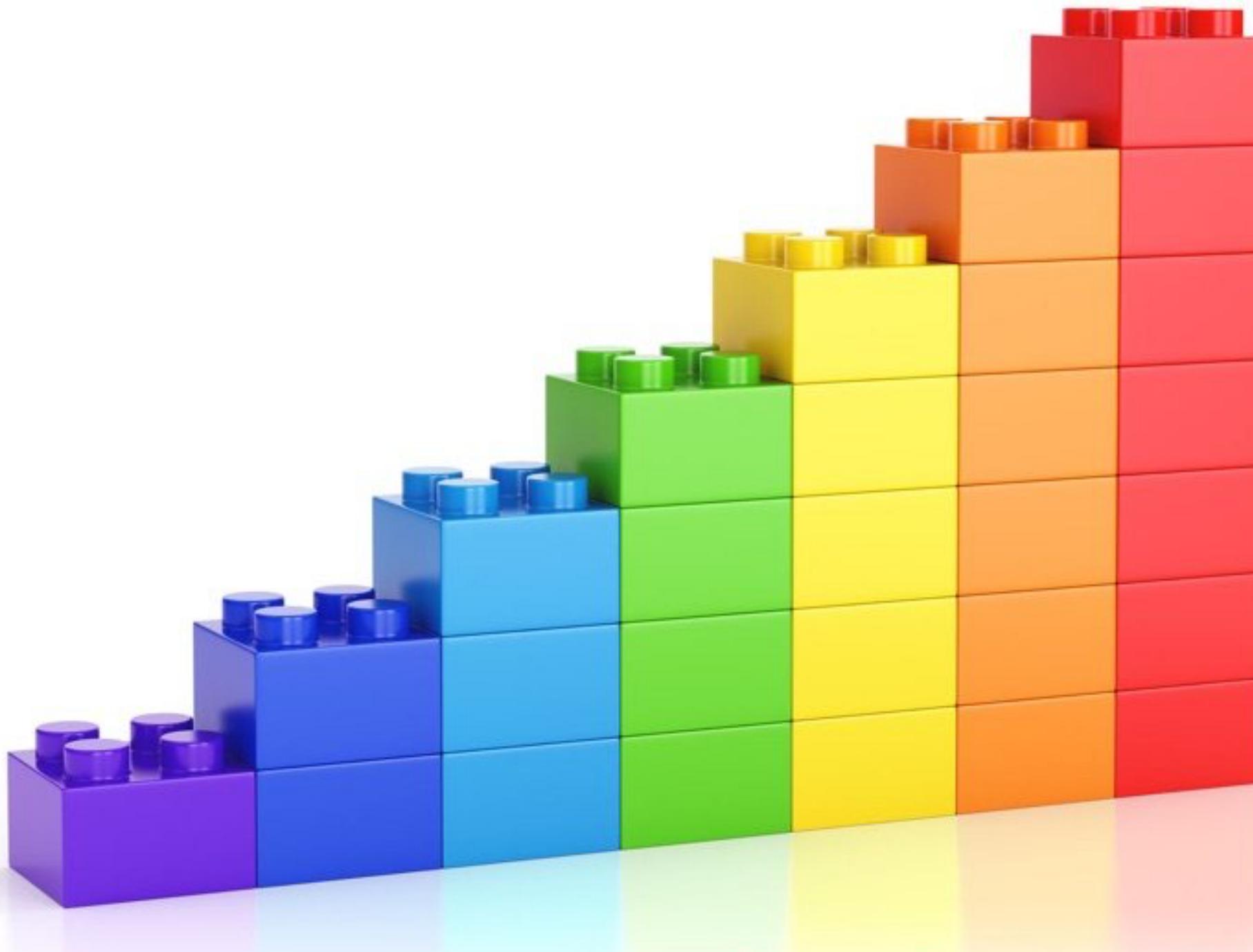
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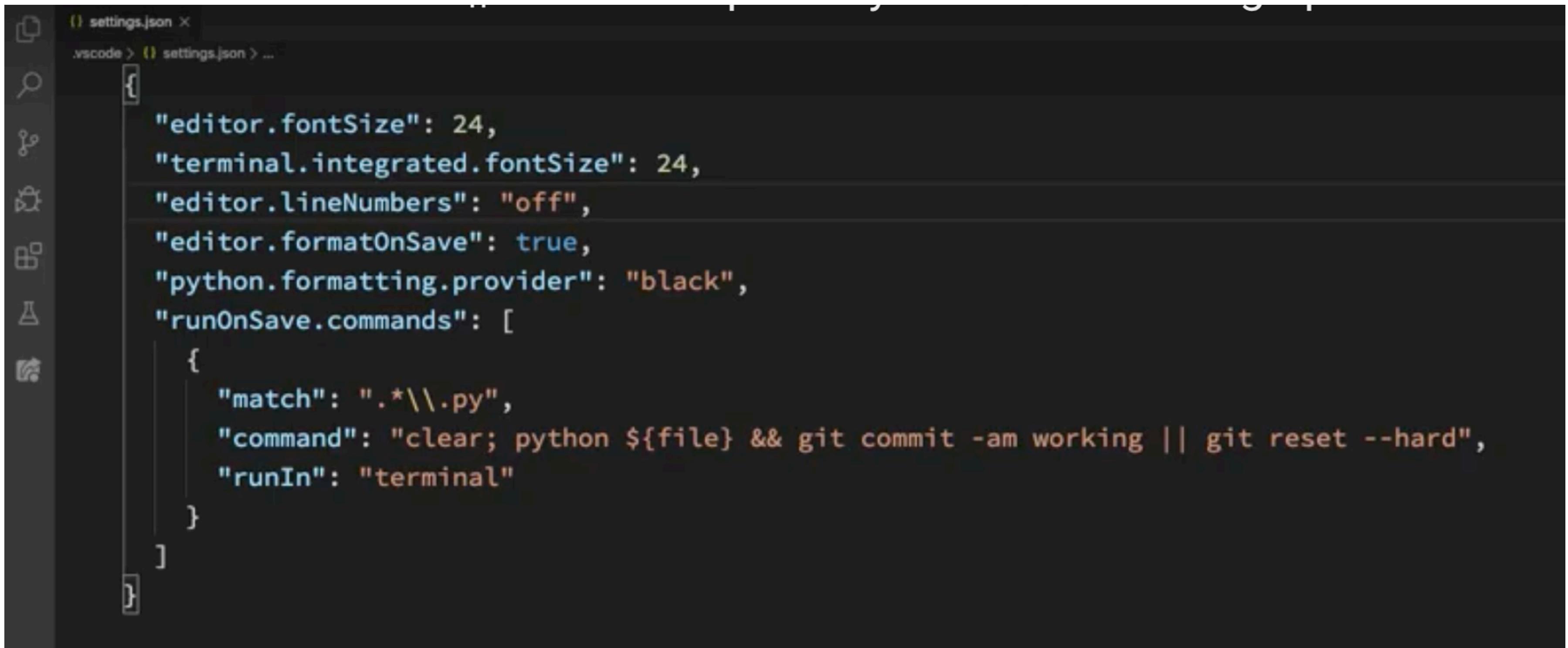




Pequeños incrementos

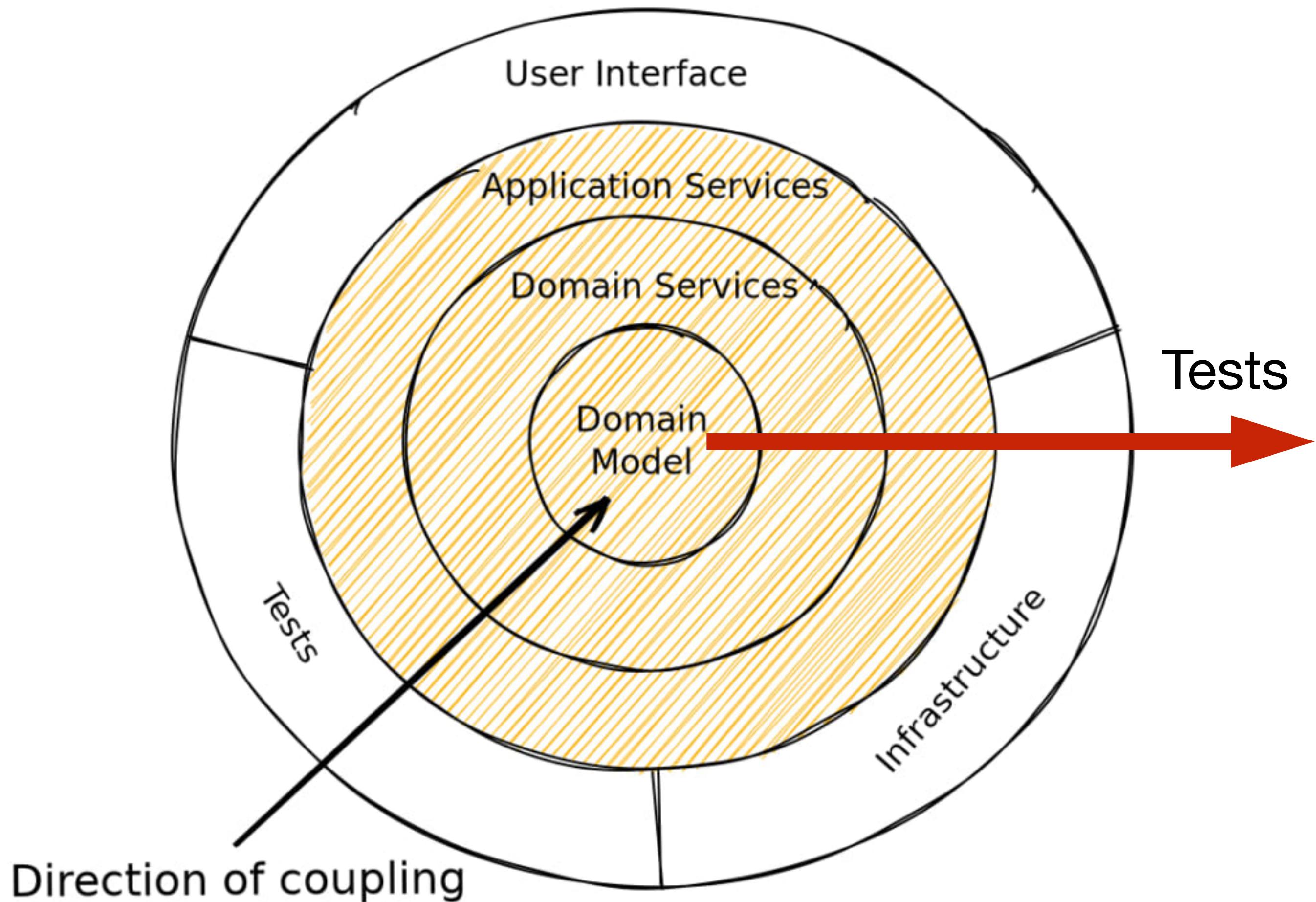


TCR: Test && Commit || Revert

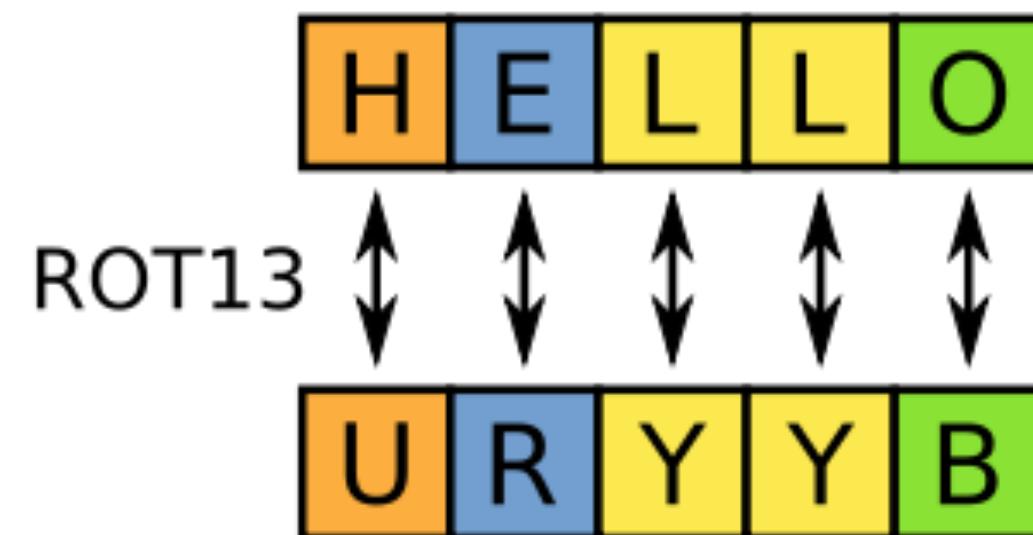
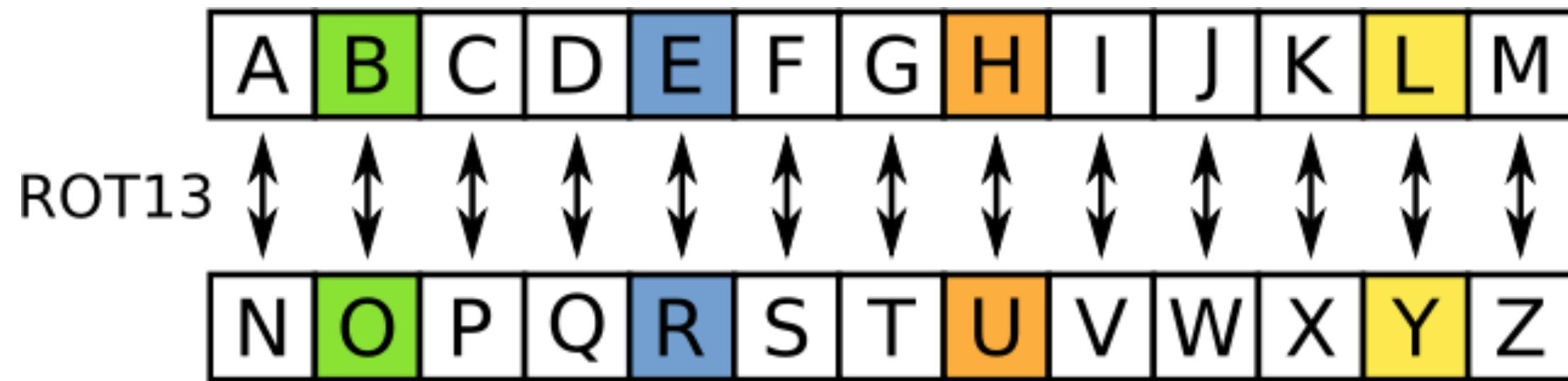


A screenshot of the Visual Studio Code interface showing the settings.json file. The file contains configuration for the editor, terminal, and runOnSave commands. The runOnSave section includes a command to clear the terminal, run Python code on save, and commit changes or revert to a previous state.

```
{  
    "editor.fontSize": 24,  
    "terminal.integrated.fontSize": 24,  
    "editor.lineNumbers": "off",  
    "editor.formatOnSave": true,  
    "python.formatting.provider": "black",  
    "runOnSave.commands": [  
        {  
            "match": "\.*\\.py",  
            "command": "clear; python ${file} && git commit -am working || git reset --hard",  
            "runIn": "terminal"  
        }  
    ]  
}
```



1. Interfaz central
2. Cálculos y condicionales
3. Bucles y generalizaciones
4. Casos especiales y manejo de errores



```

Code: github.com/jamesshore/livestream Tag: 2020-05-05 Twitter: @jamesshore Web: JamesShore.com Email: jshore@jamesshore.com
livestream — node • watch.sh
livestream — node • watch.sh quick
Testing:
1 passing (92ms)
BUILD OK ✓
(2.01s)
jamesshore:livestream jshore$ ./build.sh quick
Checking Node.js version: .
BUILD OK ✓
(0.07s)
jamesshore:livestream jshore$ ./watch.sh quick
Checking Node.js version: .
Watching src/**/*
*** BUILD: quick
BUILD OK ✓
(0.07s)

[Video Player]

```

Ventajas del uso de TDD

- Especificación clara en todo momento. No perdemos el foco ni el objetivo.
- Mejor diseño.
- Confianza, robustez y documentación.
- Ritmo, flujo.

Críticas

- Lentitud -> ¿comparado con qué?
- Exceso de énfasis en tests unitarios y mocks (Hanson)

TDD is dead. Long live testing.

By David Heinemeier Hansson on April 23, 2014

Test-first fundamentalism is like abstinence-only sex ed: An unrealistic, ineffective morality campaign for self-loathing and shaming.

It didn't start out like that. When I first discovered TDD, it was like a courteous invitation to a better world of writing software. A mind hack to get you going with the practice of testing where no testing had happened before. It opened my eyes to the tranquility of a well-tested code base, and the bliss of confidence it grants those making changes to software.



Ejemplo: dólares y euros

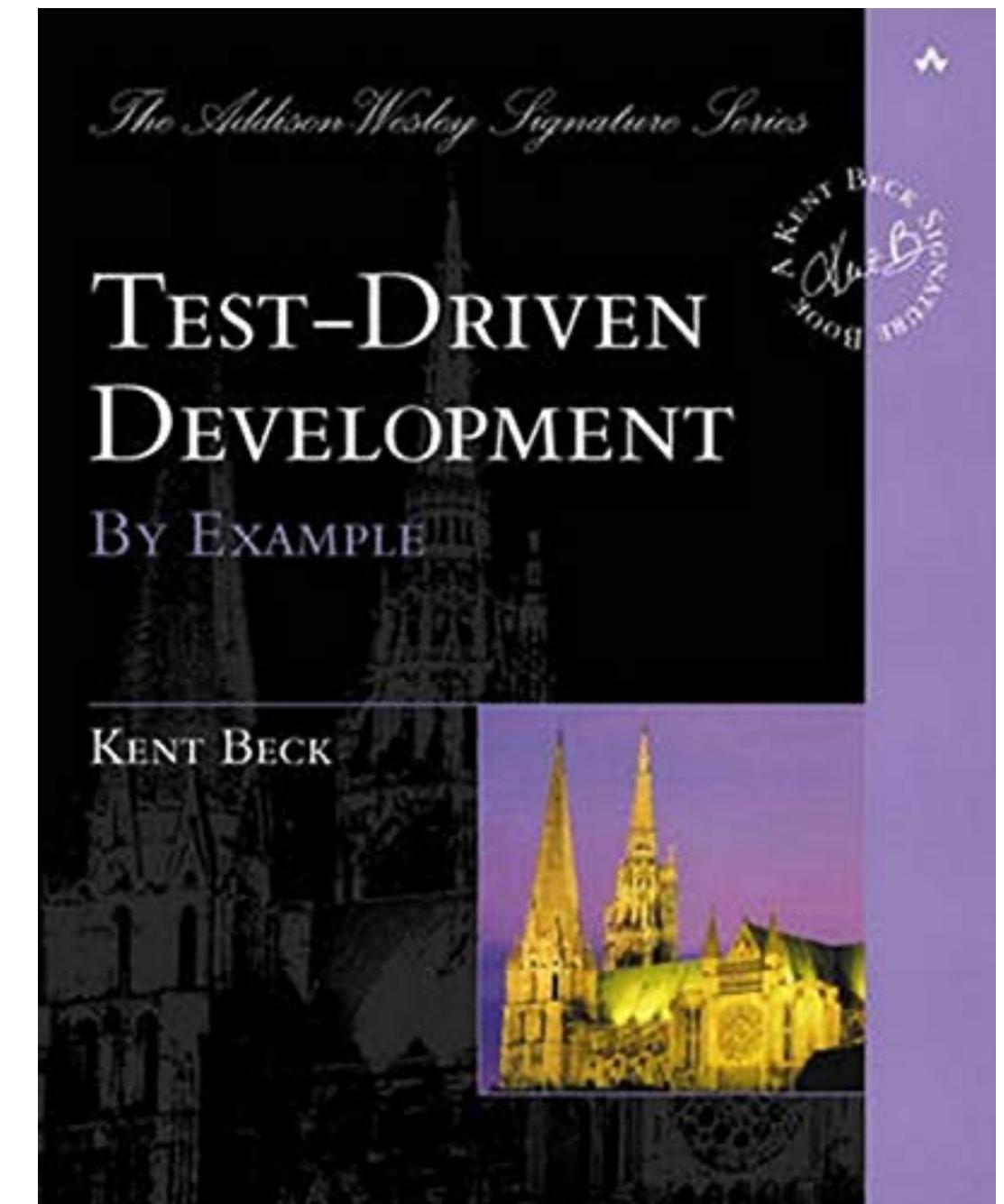
Cosas por hacer

- 5 USD + 10 EUR = 10 USD si el cambio es 2:1
- 5 USD * 2 = 10 USD
- Crear una moneda con 5 dólares

Test creación de 5 dólares

Vamos a especificar el test para el objetivo de crear una moneda de 5 dólares.

```
import org.junit.Test;  
import static org.junit.Assert.assertEquals;  
  
public class TestMonedas {  
    @Test  
    public void testCrearMoneda() {  
        Dolar cinco = new Dolar(5);  
        assertEquals(5, cinco.cantidad);  
    }  
}
```



<https://github.com/dominingogallardo/tdd-monedas>