

# Epifanías de developer





kamstrup



TOMOTA











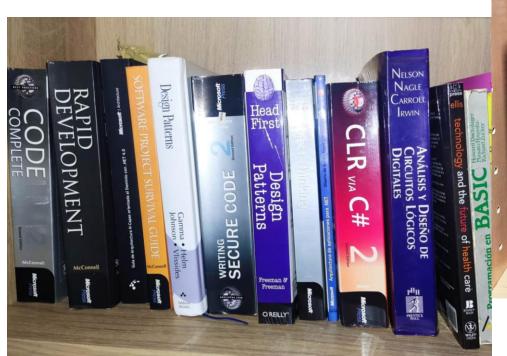


#### @SevillaNetDevs





### Leer es importante

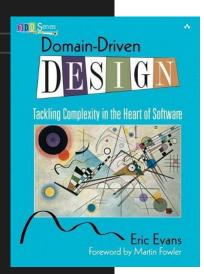






#### Interfaz o clase

```
private readonly IOfflineModeSettingsProvider offlineModeSettingsProvider;
private readonly IConfigurationService configurationService;
private readonly IConnectivity connectivityService;
private readonly IActionsRepository;
private readonly IServersChecker serversService;
private readonly ILogService logService;
private bool isOffline;
private bool thereArePendingActionsToSend;
private bool serversAvailable;
1 reference | Juan María Laó Ramos, 193 days ago | 1 author, 1 change
public OfflineModeService(
    IOfflineModeSettingsProvider offlineModeSettingsPovider,
    IConfigurationService configurationService,
    IConnectivity connectivityService,
    IActionsRepository actionsRepository,
    IServersChecker serversService,
    ILogService logService)
```





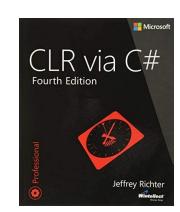
Domain-Driven Design: Tackling Complexity in the Heart of Sofware (de Evans Eric)

- Cambiemos una por ejemplo:
  - OfflineModeSettingsProvider



- Cambiemos una por ejemplo:
  - OfflineModeSettingsProvider

¿Porqué virtual?





• CLR via C# (Jeffrey Ritcher)

- Cambiemos una por ejemplo:
  - OfflineModeSettingsProvider

Refactoring (Martin Fowler)

Carlos Blé Jurado

¿Porqué virtual?

 Ahh menos mal, hay teses que me van a avisar de si he roto algo.

Código Sostenible (Carlos Ble)



```
8 references | Juan María Laó Ramos, 199 days ago | 1 author, 1 change
public class Builder
    private readonly Mock<OfflineModeSettingsProvider> offlineModeSettingsProvider;
    private readonly Mock<IConfigurationService> configurationService;
    internal readonly Mock<IConnectivity> ConnectivityService;
    private readonly Mock<IActionsRepository> actionsRepository;
    internal readonly Mock<IServersChecker> ServersService;
    internal readonly Mock<ILogService> LogService;
    private bool withPendingActions = false;
    1 reference | Juan María Laó Ramos, 199 days ago | 1 author, 1 change
    public Builder()
         this.offlineModeSettingsProvider = new Mock<OfflineModeSettingsProvider>();
         this.configurationService = new Mock<IConfigurationService>();
         this.ConnectivityService = new Mock<IConnectivity>();
         this.actionsRepository = new Mock<IActionsRepository>();
         this.ServersService = new Mock<IServersChecker>();
         this.LogService = new Mock<ILogService>();
    12 references | 32/32 passing | Juan María Laó Ramos, 199 days ago | 1 author, 1 change
    public OfflineModeService Build()
    10 references | ● 29/29 passing | Juan María Laó Ramos, 199 days ago | 1 author, 1 change
    internal Builder EnabledFeature(bool offlineFeatureEnabled = true)...
```



```
12 references | 32/32 passing | Juan María Laó Ramos, 198 days ago | 1 author, 1 change public OfflineModeService Build() {
    return new OfflineModeService(
        this.offlineModeSettingsProvider.Object,
        this.configurationService.Object,
        this.ConnectivityService.Object,
        this.actionsRepository.Object,
        this.ServersService.Object,
        this.LogService.Object);
}
```



```
10 references | ● 29/29 passing | Juan María Laó Ramos, 198 days ago | 1 author, 1 change
internal Builder EnabledFeature(bool offlineFeatureEnabled = true)
{
    this.configurationService
        .SetupGet(c => c.OfflineModeFeatureEnabled)
        .Returns(offlineFeatureEnabled);

return this;
}
```

```
[Fact]
0 | 0 references | Juan María Laó Ramos, 198 days ago | 1 author, 1 change
public void ReturnToOnlineWhenServersBecomeAvailable()
    service = builder
       .WithServersAvailable(false)
       .WithInternet(NetworkAccess.Internet)
       .EnabledFeature(true)
       .SwitchIsActive(true)
       .Build();
    service.IsOffline = true;
    service.ServersAvailable = true;
    Assert.False(service.IsOffline);
```



### Se puede mejorar algo ahí

```
1 reference | ● 1/1 passing | Juan María Laó Ramos, 198 days ago | 1 author, 1 change
internal Builder WithPendingActions()
{
    this.actionsRepository
        .Setup(c => c.ThereAreActionsToSendAsync())
        .ReturnsAsync(true);
    return this;
}
```



#### **Buenos nombres**

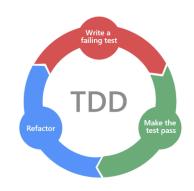
- ¿Codigo legible = menos bugs?
- ¿Como lo hacemos?
- Decisión de diseño

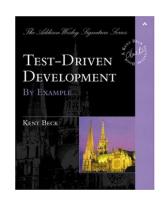


## Falla pronto, falla rápido

- Probar las decisiones
- Si no gusta, tomamos otra decisión
- Y la probamos de nuevo
- Baby steps

Test-Driven Development By example (Kent Beck)

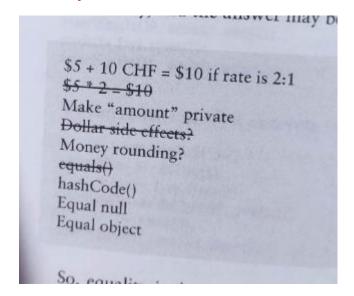




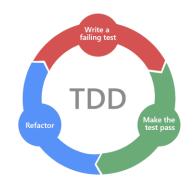


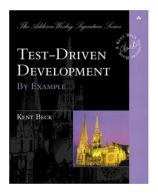
## Falla pronto, falla rápido

Cuidado con perder el foco



Test-Driven Development By example (Kent Beck)







### Tip: Arrange-Act-Assert?

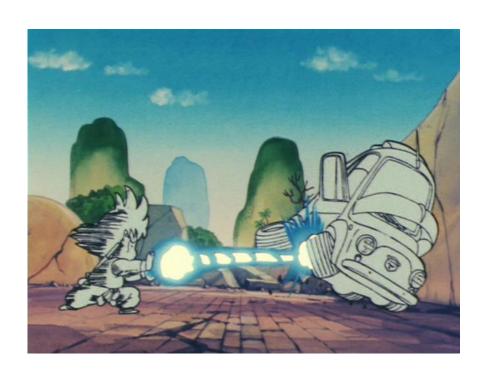
O Assert-Act-Arrange?

```
[Fact]
o | 0 references | Juan María Laó Ramos, 199 days ago | 1 author, 1 change
public void patata()
    service = builder
       .WithServersAvailable(false)
       .WithInternet(NetworkAccess.Internet)
       .EnabledFeature(true)
       .SwitchIsActive(true)
       .Build();
    service.IsOffline = true;
    service.ServersAvailable = true;
    Assert.False(service.IsOffline);
```





### CI/CD Integración y entrega continua





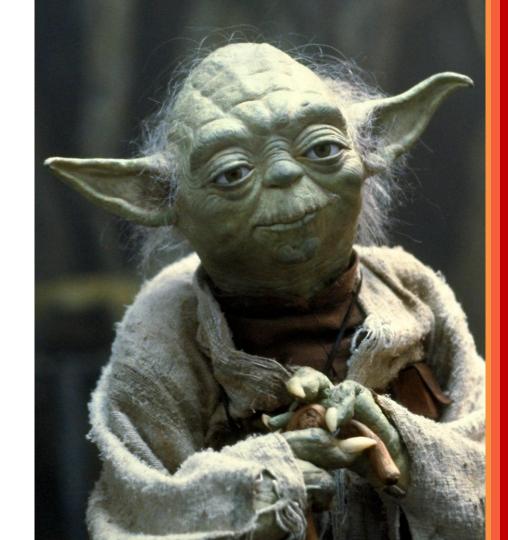
Extreme Programing Explained (Kent Beck)



### No montar CI/CD

- ¿Más rápido?
  - A corto plazo
- Más seductor

- Pero no más poderoso
- No te obsesiones con la cobertura



Test	Duration Trait
▲ ② RealProject (32)	136 ms
▲ 🤡 Tests.Features.Offline (32)	136 ms
	136 ms
▲ 🥝 No Traits (32)	136 ms
BeOfflineWhenThereArePendingActions	< 1 ms
	112 ms
▶ SensurelsOfflineChangedIsInvokedWhenConnectivityChanged (4)	10 ms
▶	2 ms
EvaluatePendingActionsWhenEvaluatinOffline	< 1 ms
InvokeOfflineChangedWhenPendingActionsAreSetted	< 1 ms
	12 ms
MainTaintcOfflinelfServercAreNotAvailable	< 1 ms





### ¿Hay tiempo para mas?





#### Historias de usuario

Criterios de aceptación



#### Historias de usuario

- Criterios de aceptación
  - Dado que X Cuando Y Entonces Z

Nos dice si la historia es manejable Identificamos información que falta

Más información para cuando vayamos a implementar

Menos sorpresas

Historias más cortas

Ramas de Git viven menos

Las revisiones por pares (Pull Request) son menos "pesadas"





### #NoAlCodigoHomeopático

- Sin pruebas
- Sin revision por pares



#### **Algunos recursos**

- Domain-Driven Design: Tackling Complexity in the Heart of Sofware (de Evans Eric)
- CLR via C# (Jeffrey Ritcher)
- Código Sostenible (Carlos Ble)
- Test-Driven Development By example (Kent Beck)
- Extreme Programing Explained (Kent Beck)
- How I Met Testing (@SevillaNetDevs)
  - Código en github
- @ndoteclados







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