

Test Driven Development in the Real World

Jeremy Clark

www.jeremybytes.com

@jeremybytes



RED

Failing test



RED



GREEN

Just enough
code to pass



RED

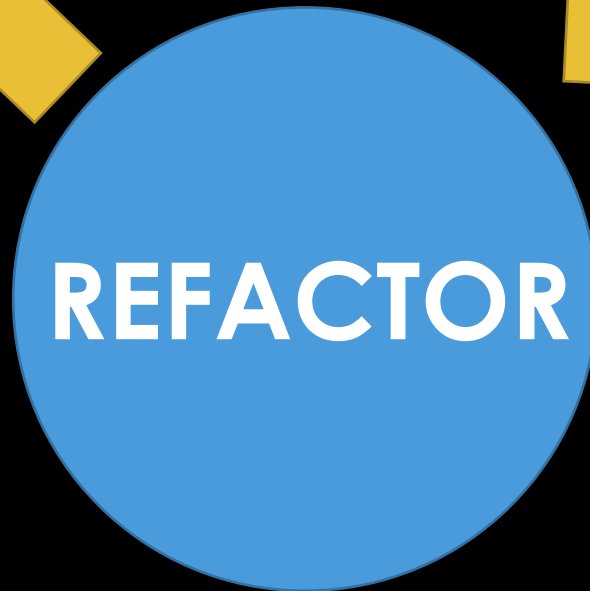
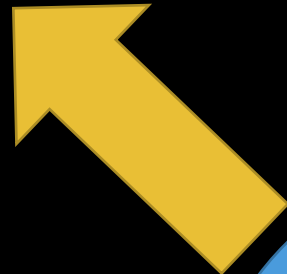
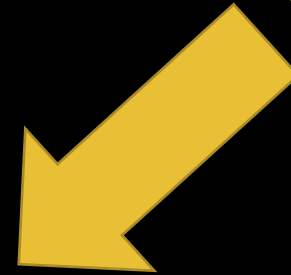


GREEN

Clean and
reorganize



REFACTOR



Sunset Service

Valid Results

```
{
  "results": {
    "sunrise": "7:52:28 AM",
    "sunset": "6:53:14 PM",
    "solar_noon": "1:22:51 PM",
    "day_length": "11:00:46.4065871"
  },
  "status": "OK"
}
```

Error

```
{
  "results": null,
  "status": "ERROR"
}
```

Our Code

```
{  
  "results": {  
    "sunrise": "7:52:28 AM",  
    "sunset": "6:53:14 PM",  
    "solar_noon": "1:22:51 PM",  
    "day_length": "11:00:46.4065871"  
  },  
  "status": "OK"  
}
```

```
public interface ISunsetGetter  
{  
    Task<DateTimeOffset> GetSunset(DateOnly date);  
    Task<DateTimeOffset> GetSunrise(DateOnly date);  
}
```

Steps to Getting Today's Sunset Time

- Call the service
- Parse JSON for “sunset”
- Convert to local date/time

```
{  
  "results": {  
    "sunrise": "7:52:28 AM",  
    "sunset": "6:53:14 PM",  
    "solar_noon": "1:22:51 PM",  
    "day_length": "11:00:46.4065871"  
  },  
  "status": "OK"  
}
```

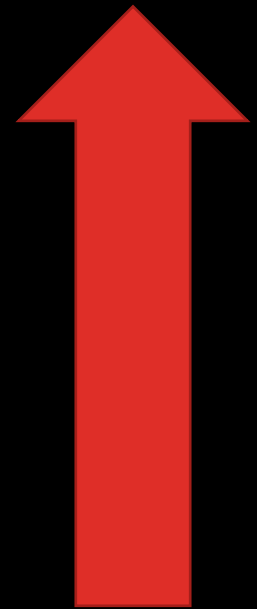
“6:53:14 PM” => 2022-10-20T18:53:14

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Thank You!

Jeremy Clark

- www.jeremybytes.com
- github.com/jeremybytes
- @jeremybytes