



Deepdive Unit Testing in .NET

Day 3



Agenda Day 3

- Check-in
- Recap
- BYOP (bring your own project)
- Useful libraries
- Books



**Bring your own
project**



Useful libraries

Tired of writing unit tests?
Stop writing code!

AutoMapper

- Library to map/convert one object to another
 - <https://github.com/AutoMapper/AutoMapper>
 - <https://automapper.readthedocs.io/en/stable/>

AutoMapper

// Setup

```
Mapper.Initialize(cfg => {  
    cfg.CreateMap<Foo, FooDto>();  
    cfg.CreateMap<Bar, BarDto>();  
});
```

// Mapping

```
var fooDto = Mapper.Map<FooDto>(foo);
```

FluentValidation

- Write fluent validations for objects
 - <https://github.com/JeremySkinner/FluentValidation>
 - <https://fluentvalidation.net/>

FluentValidation

```
public class CustomerValidator: AbstractValidator<Customer> {  
    public CustomerValidator() {  
        RuleFor(x => x.Surname).NotEmpty();  
        RuleFor(x => x.Discount).NotEqual(0).When(x => x.HasDiscount);  
        RuleFor(x => x.Address).Length(20, 250);  
        RuleFor(x => x.Postcode).Must(BeAValidPostcode).WithMessage("Please specify a  
valid postcode");  
    }  
    private bool BeAValidPostcode(string postcode) {  
        // custom postcode validating logic goes here  
    }  
}
```

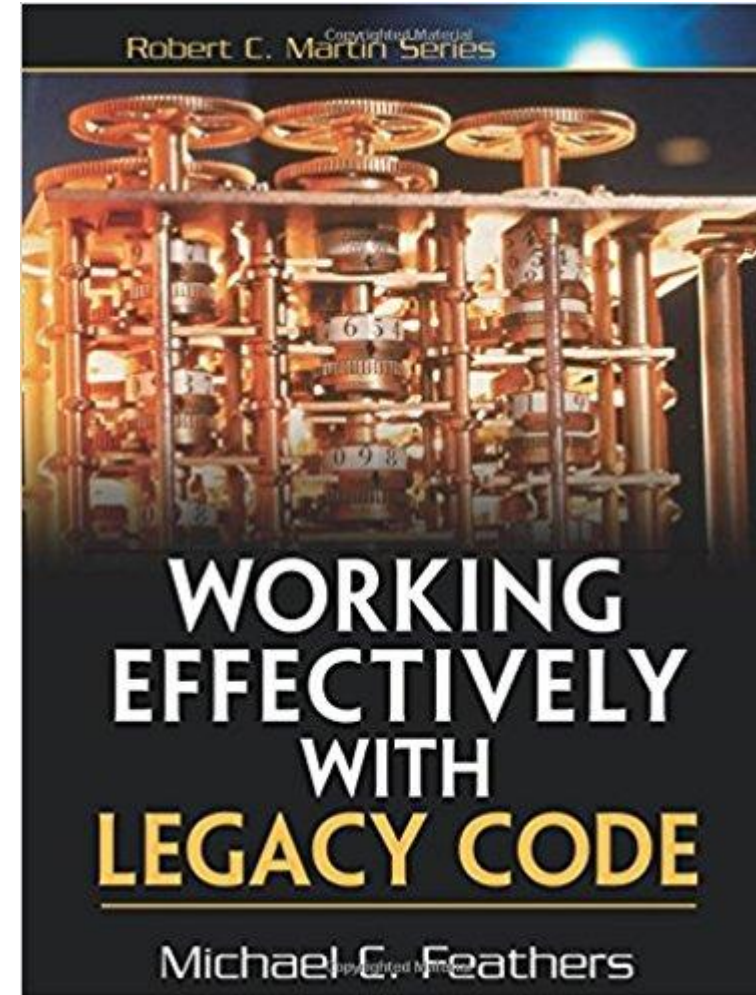
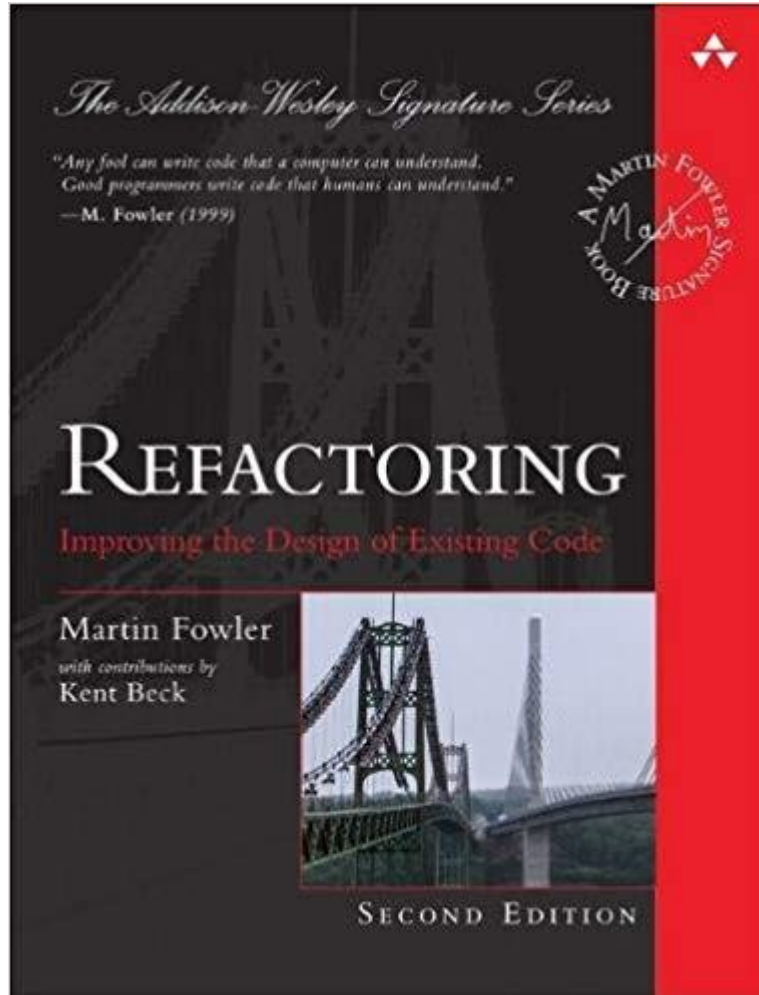
FluentValidation

```
var customer = new Customer();  
var validator = new CustomerValidator();  
ValidationResult results = validator.Validate(customer);  
  
bool success = results.IsValid;  
IList<ValidationFailure> failures = results.Errors;
```

The background of the slide is a photograph of a library or bookstore. It shows tall wooden shelves filled with books, with some books standing upright and others stacked horizontally. The lighting is warm and slightly blurred, creating a cozy atmosphere. A large white diagonal shape cuts across the bottom right of the image, serving as a backdrop for the title.

Books

Books



Check out

- What did you like best?
- What could be improved?

