

KF6012

*Web  
Application  
Integration*

Dr John Rooksby

Dr Kay Rogage

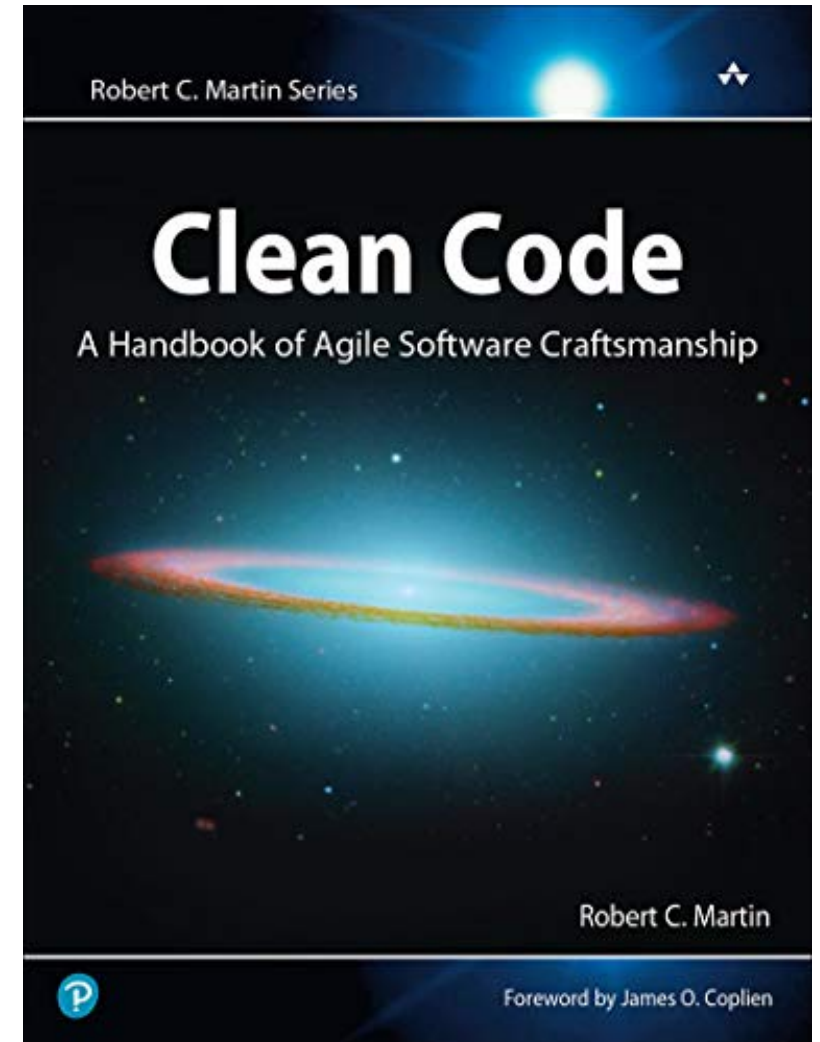
2020 / 2021

# In this lecture

- Clean code
- Functions

# Clean code

- Robert C. Martin in his book Clean Code describes what good code should look like.
- This book is in the library and makes a good read.







# Key characteristics of clean code (paraphrased)

- The code should be elegant and pleasing to read.
- Each function, class, module, etc. should focus on one thing.
- The code should be maintained to keep it simple and orderly as it grows.
- The code should be tested and all tests should pass.
- The code should have no duplication.
- The number of entities such as functions should be minimised.

# Functions

- Functions should do one thing
- Functions should be small.
- A function should not have more than 3 arguments and preferably none.
- Function names should describe what it is trying to achieve.
- Error handling is one thing (functions should do one thing).
- Don't use flag arguments to modify the behaviour of the function.

includes/hello.function.php

```
<?php
function hello($name) {
    return "Hello, " . $name . "!";
}
?>
```

includes/hello.function.php

```
<?php
function goodbye($name) {
    return "Goodbye, " . $name . "!";
}
?>
```

## includes/htmlHeader.function.php

```
<?php
function htmlHeader($title, $link) {
    return <<<HEADER
<!DOCTYPE html>
<html lang="en-gb">
    <head>
        <title>
            $title
        </title>
        <link rel="stylesheet" href=$link>
    </head>
    <body>
HEADER;
    }
?>
```



# Clean code

- Writing clean code is hard. Often people have different opinions on the best way to write code, and programming teams need to agree their style.

# KF6012: Web Application Integration

- Module tutor: John Rooksby
- Email: [john.rooksby@northumbria.ac.uk](mailto:john.rooksby@northumbria.ac.uk)