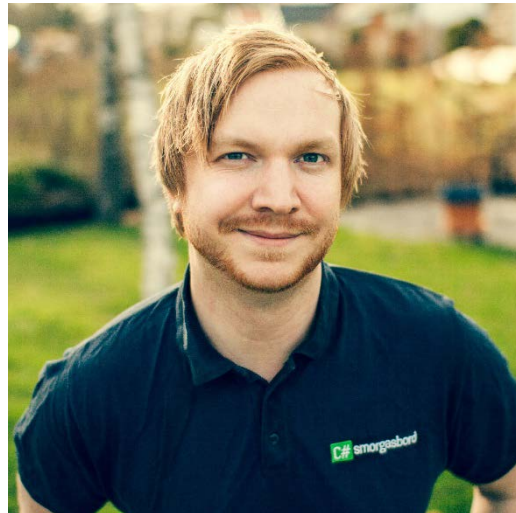


Getting Started with Asynchronous Programming in .NET

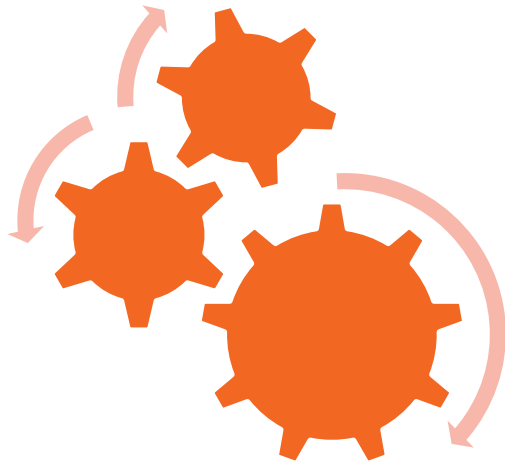
Introduction



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Overview



What is asynchronous programming?

Why is asynchronous programming important?

How to adapt this in my applications?

What can I expect from this course?

Asynchronous Programming Example

- **Show** a loading **indicator**
- Start **asynchronous operation**
 - **Read** a large CSV file **from disk**
 - **Count** the rows
 - Asynchronous operation completed
- **Render** the **result** on screen
- **Remove** loading **indicator**



What?

Simultaneous
processing

Handle **result** when
processing is done

Not parallel
programming

Asynchronous + Parallel Programming

- **Show** a loading **indicator**
- Start **asynchronous operation**
 - **Read** a large CSV file **from disk**
 - **Process rows in parallel**
 - Asynchronous operation completed
- **Render** the **result** on screen
- **Remove** loading **indicator**





Asynchronous JavaScript (AJAX)

```
$.get("http://www.filipekberg.se/rss", function(data) {  
    alert("RSS Received!");  
});
```

Why?

Avoid **Unreliable**
applications

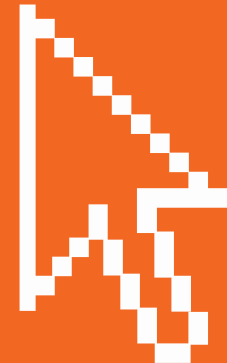
Get **Happier** users

Build **Faster**
applications

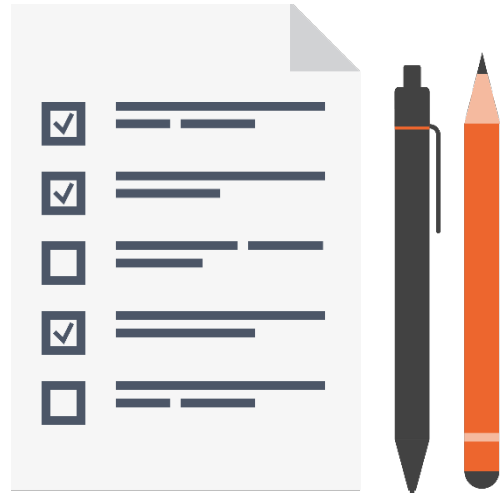
An Unreliable Application

Why?

What do we expect?



Summary



What Asynchronous Programming is
Understanding the problem space
Course **goals**