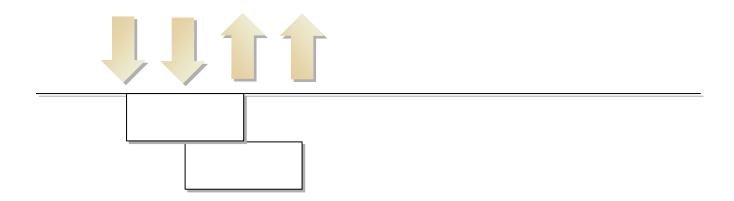
Asynchronous programming

Async Programming





Using async and await

- Add the async modifier to method declarations
- Use the await operator within async methods to wait for a task to complete without blocking the thread

Creating Awaitable Methods

- The await operator is always used to wait for a task to complete
- If your synchronous method returns void, the asynchronous equivalent should return Task
- If your synchronous method has a return type of
 T, the asynchronous equivalent should return
 Task<T>

Async and Web API

- When available, use async method calls in your actions. Typical scenario: database operations
- Await these method calls
- Make the action async returning a Task<IActionResult>
- This will free up the process that handles the requests while we're waiting
- This also works with minimal APIs