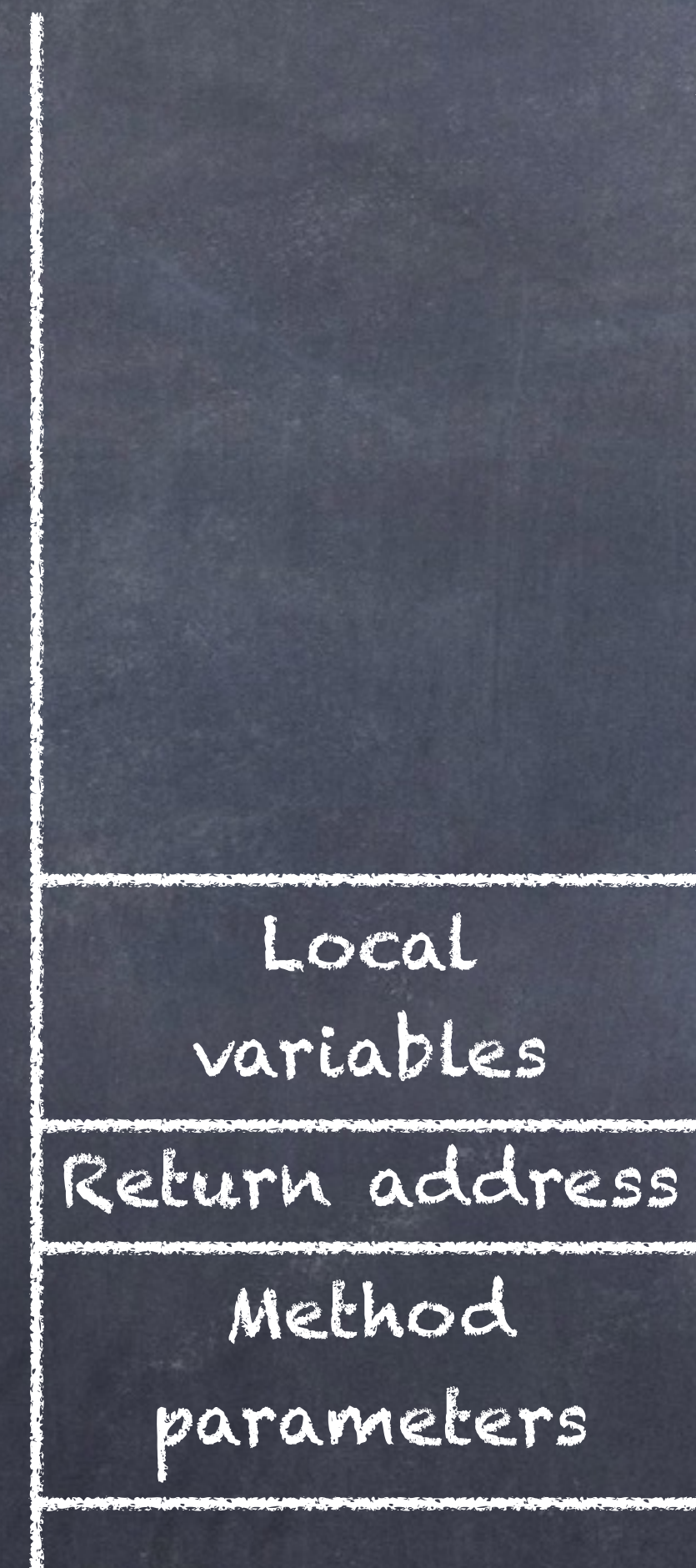


The stack

Stack



Stack



First stack frame

Stack

| |
|----------------------|
| |
| <no local vars> |
| Return address |
| Method parameters |
| Local variables |
| Return address |
| Method parameters |
| |

Second stack frame

First stack frame

[illegible]

A diagram of a stack frame, which is a rectangular box tilted at an angle. Inside the box, the text "Stack frame" is written. To the right of the box, there is a small square containing the letter "S", and below it, another small square containing the letter "H".

stack frame

[illegible]

Stack frame

Stack frame

| |
|-------------|
| Stack frame |
| Stack frame |
| Stack frame |
| Stack frame |
| Stack frame |
| Stack frame |
| Stack frame |
| Stack frame |
| Stack frame |
| Stack frame |
| Stack frame |
| Stack frame |

StackOverflowException

Stack

| |
|----------------------------|
| |
| <no locals> |
| Return address |
| DrawLine x1, y1, x2, y2 |
| DrawSquare xw, yh |
| Return address |
| DrawSquare x, y, w, h |
| |

DrawLine
stack frame

DrawSquare
stack frame

The stack

- Tracks methods calls
- Contains **frames** which hold parameters, return address and local variables for each method call
- A stack frame is removed when returning from a method. All local variables go out of scope at this point.
- If you call too many methods, the stack will fill up completely and .NET throws a StackOverflow exception.