

# ASP.NET Web Forms Internals

## Requests, ViewState & Page Lifecycle

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# Motivation

- **Most developers are familiar with ASP.NET high level abstractions**
- **However, knowledge of the underneath stuff is important for advanced developers:**
  - Troubleshooting
  - Better Design
- **Ask yourself:**
  - Do you know what happens before a page starts executing its events?
  - Do you know how ASP.NET pipeline works and the best practices for code to subscribe to it?
  - Do you know the importance of ViewState in page lifecycle beyond the '*it saves page state between postbacks*' statement?

# Contents

- ➡ ▪ **Pre-Page Execution Request Architecture**
  - ASP.NET Pipeline
  - Native and Managed Modules
  - Request architecture “hidden” things
- ➡ ▪ **Introducing ViewState**
  - Lightweight introduction to StateBag, ViewState, and Tracking
- ➡ ▪ **The Page Lifecycle and ViewState**
  - Pipeline events
  - ViewState Role
- ➡ ▪ **ViewState Walkthroughs**
  - ViewState Demos
- **Note: some ideas are elaborated as you go...so go through modules sequentially in your first run**