



Enterprise Software Development

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# Building Single Page Applications with ASP.NET Core 2.0

DDD Brisbane – December 2017

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codingflow.net

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# Agenda

Getting Started with SPA

Building a Web API

Open API Specification (OAS)

Next Steps

# ASP.NET Core JavaScript Services

ASP.NET Core has built-in support for SPA

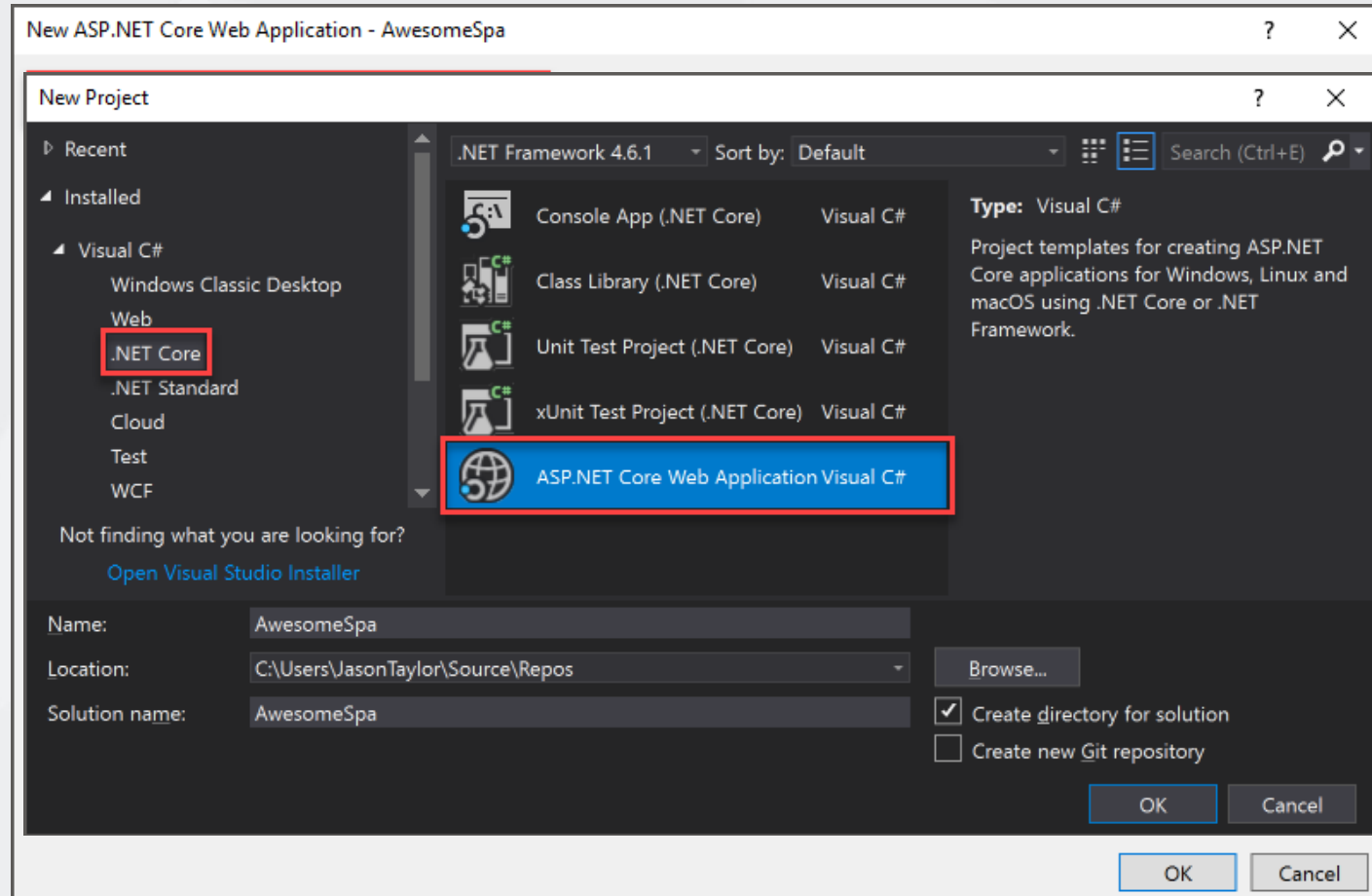
Supports all major client-side frameworks

Cross-platform Windows, Mac, or Linux

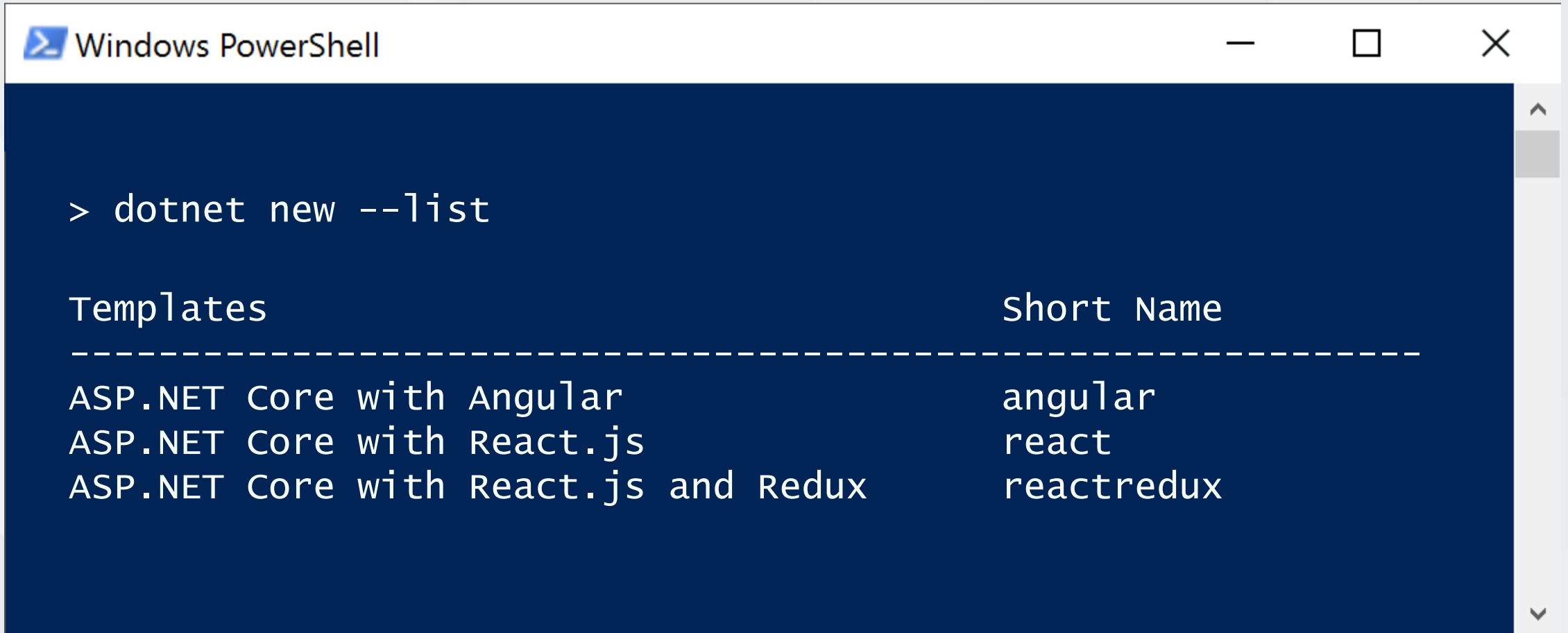
Use your preferred IDE or code editor



# Using Visual Studio 2017



# Using .NET Core CLI

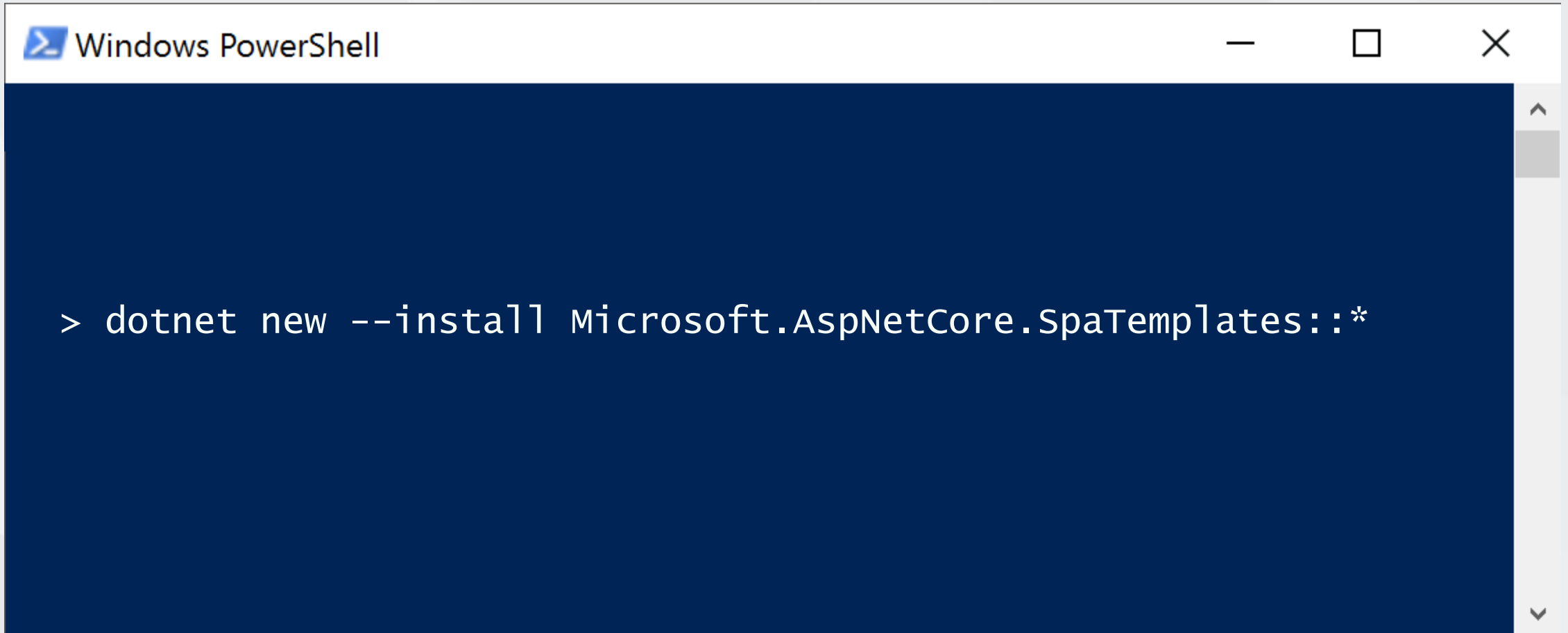


```
Windows PowerShell

> dotnet new --list

Templates                                     Short Name
-----
ASP.NET Core with Angular                   angular
ASP.NET Core with React.js                  react
ASP.NET Core with React.js and Redux        reactredux
```

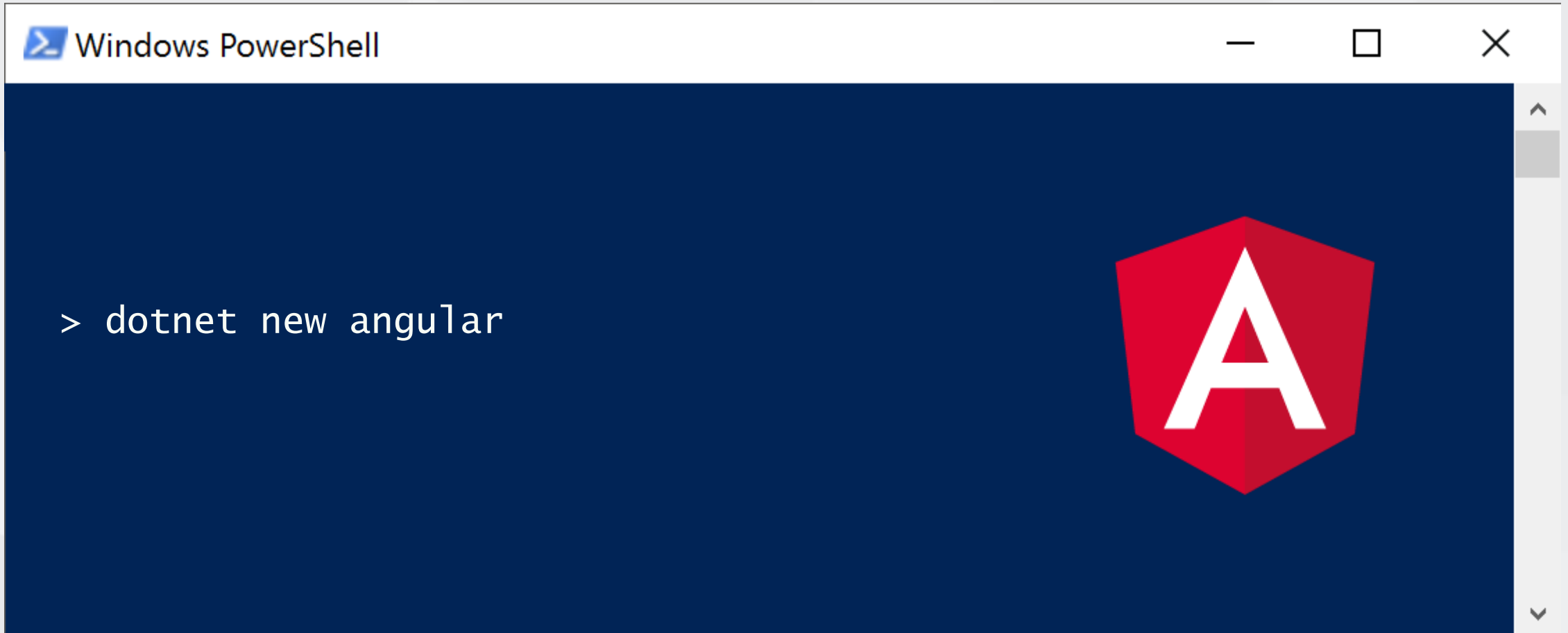
# Additional Templates

A screenshot of a Windows PowerShell terminal window. The window has a title bar with the text "Windows PowerShell" and standard minimize, maximize, and close buttons. The terminal background is dark blue, and the text is white. A single command is entered at the prompt: `> dotnet new --install Microsoft.AspNetCore.SpaTemplates::*`.

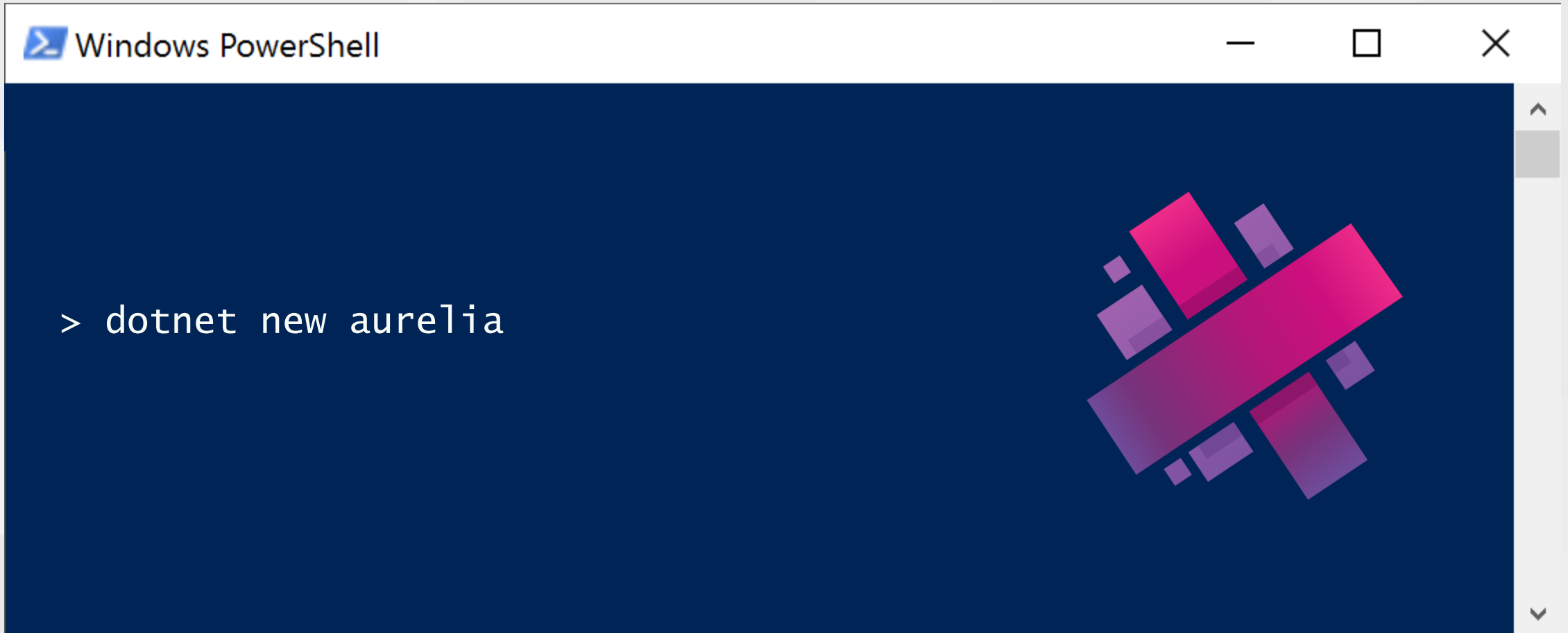
```
Windows PowerShell

> dotnet new --install Microsoft.AspNetCore.SpaTemplates::*
```

# Angular + ASP.NET Core



# Aurelia + ASP.NET Core

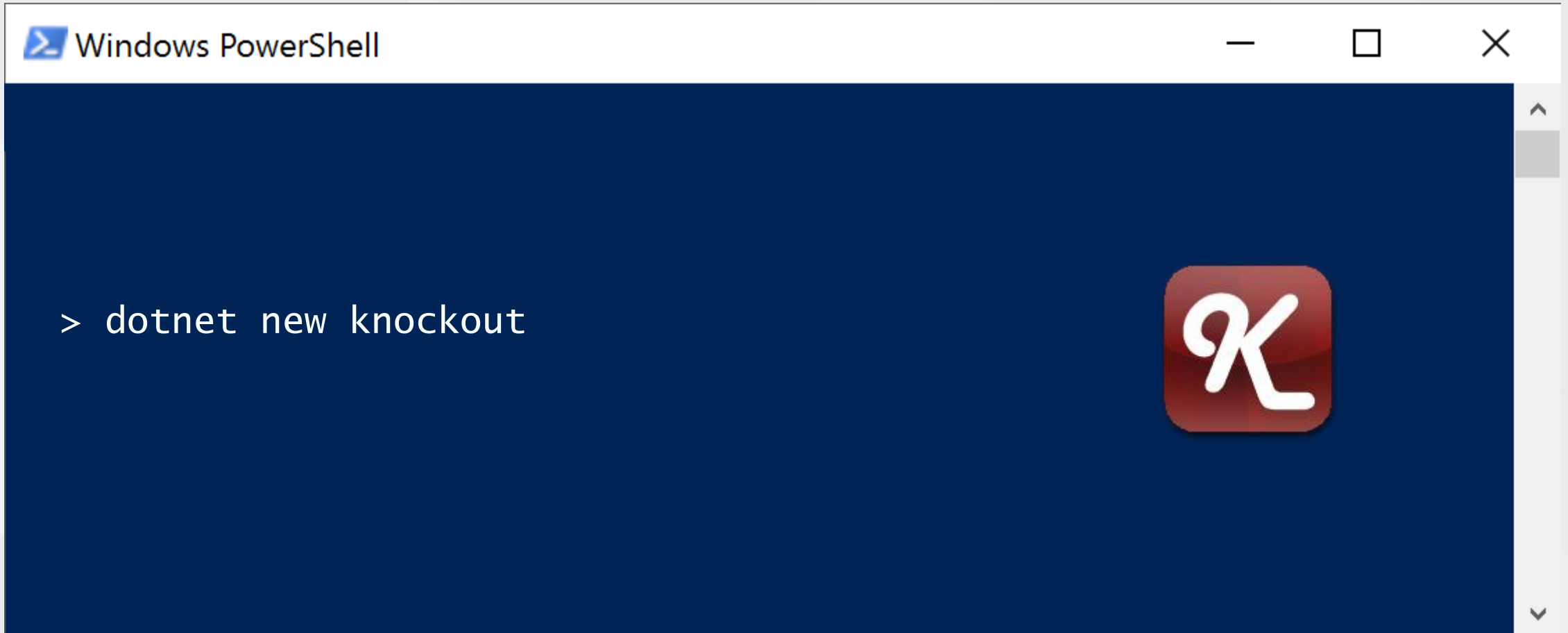


A screenshot of a Windows PowerShell window. The title bar reads "Windows PowerShell" with standard window controls (minimize, maximize, close) on the right. The main area has a dark blue background. On the left, the command `> dotnet new aurelia` is entered in white text. On the right, the Aurelia logo is displayed, consisting of several overlapping squares in shades of pink and purple.

```
> dotnet new aurelia
```



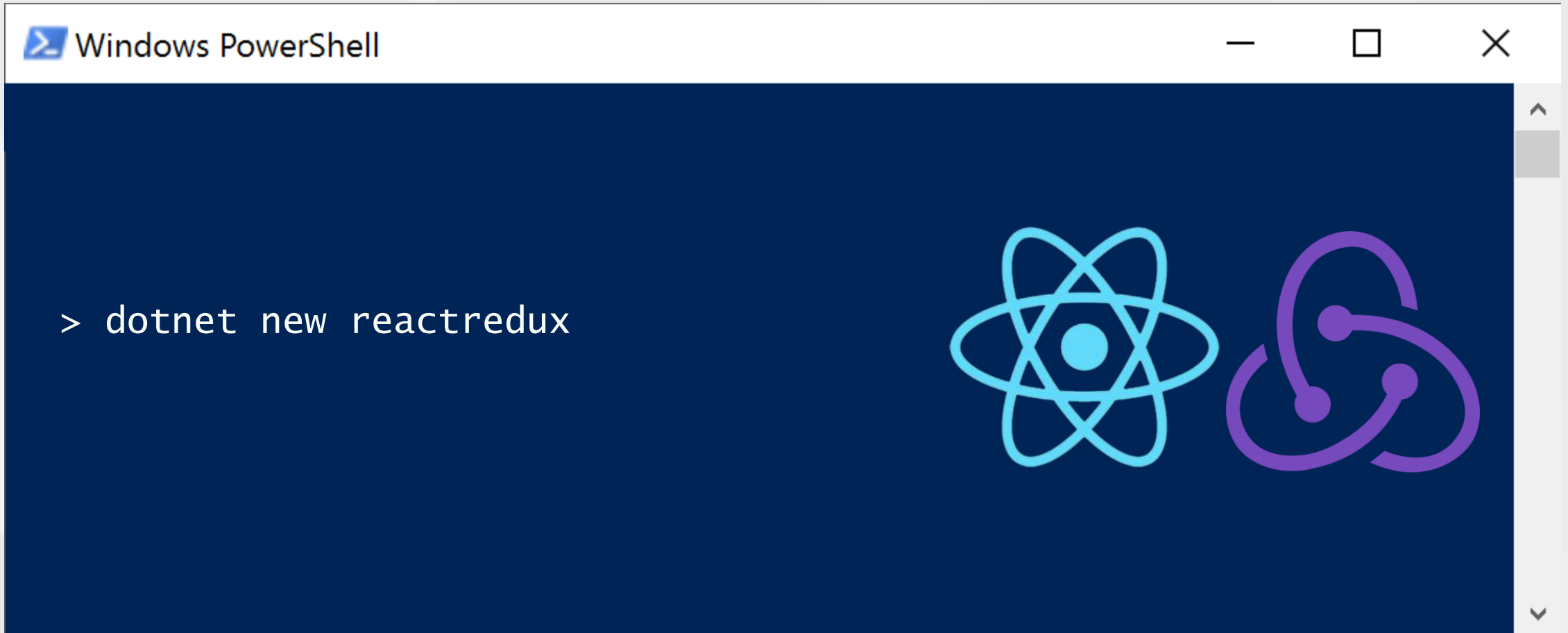
# Knockout + ASP.NET Core



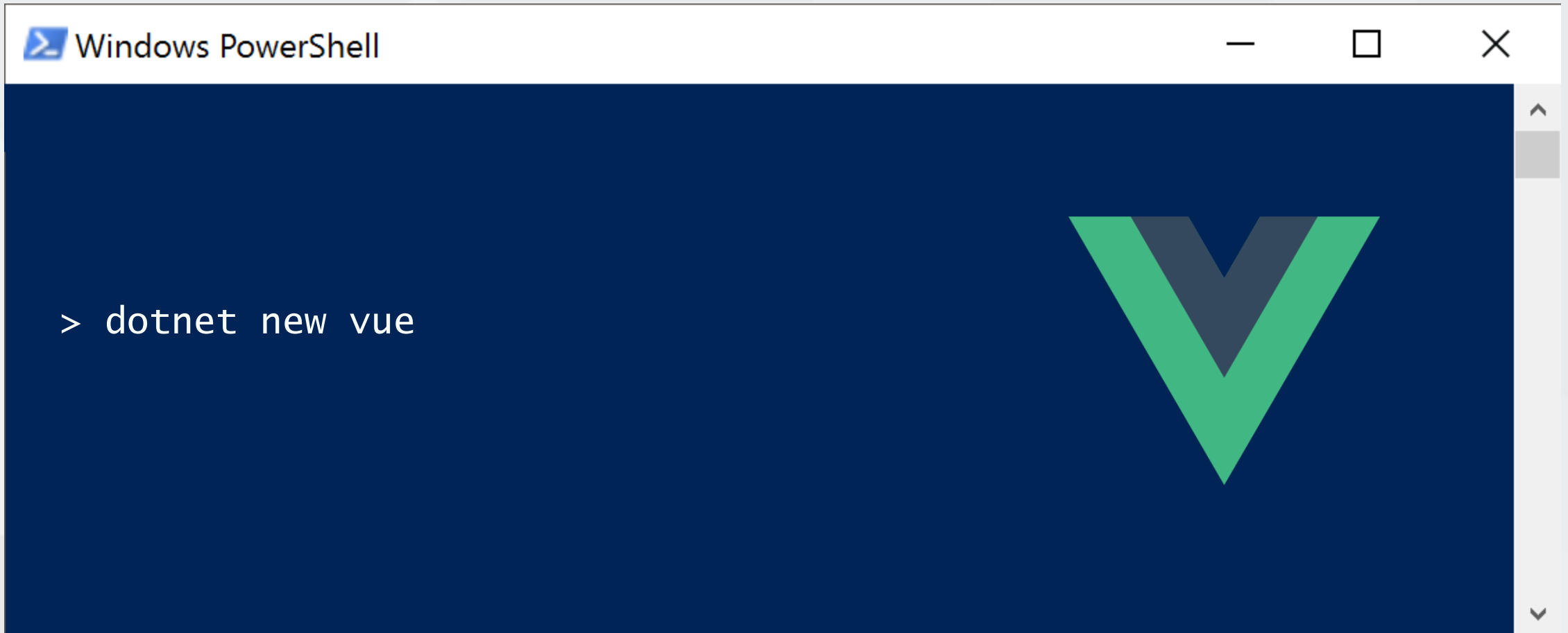
# React + ASP.NET Core



# React + Redux + ASP.NET Core



# Vue + ASP.NET Core



# Demo: Creating a SPA

Building single page applications with ASP.NET Core



# Agenda

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# Demo: Building a Web API

Creating an awesome ASP.NET Core Web API

# Agenda

Getting Started with SPA

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# Open API Specification (OAS)

Defines a standard interface description for Rest APIs

Allows humans to understand the capabilities of a service

Allows computers to generate documentation, code, clients and servers, and automate test cases

<https://github.com/OAI/OpenAPI-Specification>

# Demo: Working with Open API

Create an Open API definition document

Using Swagger UI to interact with our Web API

Create a TypeScript client for our Web API



# Agenda

Getting Started with SPA

Building a Web API

Using Open API

Next Steps

# Next Steps

[Visual Studio 2017](#) (version 15.3 or greater)

*or*

[Visual Studio Code](#) (latest version)

[.NET Core SDK](#) (version 2.0 or later)

[Node.js](#) (version 6 or later)

# Thank you!

@JasonGtAu

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