



# Environments

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## .NET FUNDAMENTALS

# Agenda

- What are environments?
- .NET Environments
- Dependency Injection
- Environment Tag Helper
- Lab/Demo

# What are environments?

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- Most organizations have multiple hosting environments for applications:
  - Development, Staging, Production (or similar; sometime more, sometime less)
- Helps to isolate changes/version and provide independent configuration
- Functionality is built in to .NET

# .NET Environments

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- Microsoft Documentation: [NET Fundamentals - Environments](#)
- Can be set as Environment Variable in Visual Studio
- Can be set as a System Environment variable on a Windows computer
  - DOTNET\_ENVIRONMENT (for any type of NET app) – checked first if exists
  - ASPNETCORE\_ENVIRONMENT (for ASP.NET apps)
- Should be set to respective standard value: Development, Staging, Production

# Dependency Injection

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*IWebHostEnvironment* (common example is in Startup.cs Configure)

Example:

```
if (env.IsDevelopment())
{
    // execute only in development
}
if (env.IsProduction() || env.IsStaging() || env.IsEnvironment("Staging_2"))
{
    // execute in production, staging, and named "Staging_2"
}
```

Separate Startup classes per environment can be used

# Environment Tag Helper

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Example:

```
<environment include="Development">
```

```
    <div>The effective tag is: &lt;environment include="Development"&gt;</div>
```

```
</environment>
```

```
<environment exclude="Development">
```

```
    <div>The effective tag is: &lt;environment exclude="Development"&gt;</div>
```

```
</environment>
```

```
<environment include="Staging,Development,Staging_2">
```

```
    <div>
```

```
        The effective tag is:
```

```
        &lt;environment include="Staging,Development,Staging_2"&gt;
```

```
    </div>
```

```
</environment>
```

# Lab/Demo

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Source Code Available at

<https://github.com/bradthecoder/Samples.Environments>