

Generating Dynamic Markup with Tag Helpers



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Understanding Tag Helpers



Tag Helpers:

Provide a semantically friendly way to enhance or transform HTML markup.



Advantages of Tag Helpers

**Generate
intelligent links**

Manage URL data

Simplify caching

**Manage static
assets**

Influence layouts

**Build smarter
forms**



Applying Tag Helpers

Attribute Tag Helpers

Transform or enhance existing
HTML elements

Element Tag Helpers

Provide entirely new markup
elements with unique abilities



Tag Helpers as Attributes

Tag Helper
attributes

```
<a class="nav-link" asp-page="Item" asp-route-id="@Item.Id">Auto</a>
```

Rendered
HTML

```
<a class="nav-link" href="/Item/23">Auto</a>
```



Tag Helpers as Elements

Tag Helper
element

```
<environment include="Development">  
  <script src="scripts/dev-debug.js"></script>  
</environment>
```



Rendered HTML
(when running
locally)

```
<script src="scripts/dev-debug.js"></script>
```



Categorizing Tag Helpers

Utility Tag Helpers

General purpose helpers that
can be used across an app

Form Tag Helpers

Used exclusively when
building HTML Forms



Categorizing Tag Helpers

Utility Tag Helpers

Anchor Tag Helper

Image Tag Helper

Caching Tag Helper

Environment Tag Helper

Form Tag Helpers

Form Tag Helper

Input Tag Helper

Validation Tag Helper

Label Tag Helper



Demo



**Demo: Improving Navigation with
Tag Helpers**



Demo



Demo: Completing the Details Page



Demo



Demo: Improving Images



Demo



Demo: Managing Resources



Demo



Demo: Caching with Helpers



Summary



Tag Helpers provide a semantically friendly way to transform HTML

Tag Helpers can enhance standard HTML elements with new abilities

They can be implemented as both attributes and stand alone elements

.NET converts Tag Helpers into standard markup when a Razor Page is processed

Tag Helpers are an evolution over the more legacy HTML helpers

