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Injects and Parameters in Blazor

[Inject] Dependency Injection

Injections got easier it seems, you can do them nicely in two ways now. Either mark it as `required`, or use a constructor.

`</> C#`

```
1 // Option 1, mark required
2 [Inject]
3 public required IJSRuntime JSRuntime { get; init; }
4
5 // Option 2, use constructor
6 public MyComponent(IJSRuntime jsRuntime)
7 {
8     // Either use in a primary constructor, or use in a
9     // normal constructor whatever works.
10 }
```

See here: [ASP.NET Core Blazor dependency injection |...](#)

[Parameter] Parameters

If the parameter is required, decorate it with the `[EditorRequired]` attribute so that the consumer of the component will get a warning at compile time if they don't provide the parameter.

Mark it as `required` to let the compiler know that it won't be null. Or use a question mark to mark it as nullable.

`</> C#`

```
1 [Parameter, EditorRequired]
2 public required string RequiredParam { get; set; }
3
4 [Parameter]
5 [EditorRequired]
```

```
6 public string? RequiredNullableParam { get; set; }
```

If the parameter is optional, don't use the `[EditorRequired]` attribute. If it's optional, you can provide a default value.

</> C#

```
1 [Parameter]
2 public string? OptionalParam { get; set; }
3
4 [Parameter]
5 public string OptionalParamWithDefaultValue { get; set; }
= "default value";
```

Optional Event Callback Parameter

The `EventCallback` in Blazor is a struct, so it can't be null in the first place. You can check it using `HasDelegate`, but it will not throw an error if `HasDelegate` is false, and you call `InvokeAsync()` on it.

</> C#

```
1 [Parameter]
2 public EventCallback OptionalCallback { get; set; }
3
4 protected async Task SomeFunction()
5 {
6     // Check HasDelegate, which is false when
7     // OptionalCallback hasn't been assigned a meaningful value.
8     if (OptionalCallback.HasDelegate)
9         await OptionalCallback.InvokeAsync();
10
11    // Calling it anyway when HasDelegate is false does
12    // not throw an error.
13    await OptionalCallback.InvokeAsync();
14 }
```

It may be clearer to explicitly mark it as nullable when it is optional, and not when it is required. This has the drawback of allowing for "two zeros" as I would call it: a null value, and a default value that's not null but `HasDelegate` is false. I think the pros outweigh the cons though, so I prefer this style.

```
1 [Parameter]
2 public EventCallback? OptionalCallback { get; set; }
3
4 [Parameter, EditorRequired]
5 public required EventCallback RequiredCallback { get; set;
6 }
7
8 protected async Task SomeFunction()
9 {
10     // Compiler warns if you don't check for null
11     if (OptionalCallback.HasValue)
12         await OptionalCallback.Value.InvokeAsync();
13
14     // No need to check the required one
15     await RequiredCallback.InvokeAsync();
16 }
```