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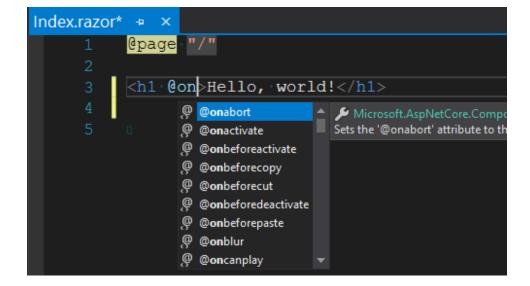
# Browser DOM events



When rendering any mark-up, it is possible to assign standard JavaScript events on the rendered HTML elements so that our own Blazor C# methods are executed. For example, we have used the <code>@onclick Directive</code> in many samples elsewhere:

<button @onclick=ButtonClicked>Click me</button>

These event directives have full IntelliSense support within the Visual Studio editor, so starting to type the @ symbol should present us with a comprehensive list of available directives, along with a description identifying which argument class type the event passes us in our event handler. DOM events start with @on.



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"Sets the '@onabort' attribute to the provided string or delegate value. A delegate value should be of type 'Microsoft.AspNetCore.Components.Web.ProgressEventArgs'"

Warning: When writing a Blazor app that runs entirely on the server, Blazor will hook events in the browser and send them to server so our C# methods can be invoked. This can lead to a noticeable slow-down for frequently fired events such as onmousemove.

**Note:** Because JavaScript invocation of C# methods is asynchronous, this means that in C# methods we cannot cancel events as we can in JavaScript. This is because cancelling browser DOM events is a synchronous operation, by the time our C# has been asynchronously invoked it is already too late to cancel the event.

Available DOM events and their parameter types include:

#### **General events**

DOM event	Argument type
on <i>a</i> ctivate	EventArgs
onbeforeactivate	EventArgs
on <i>b</i> efore <i>d</i> eactivate	EventArgs
on <i>d</i> eactivate	EventArgs
onended	EventArgs
on <i>f</i> ullscreenchange	EventArgs
on <i>f</i> ullscreenerror	EventArgs

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onloaded data	EventArgs
onloaded <i>m</i> etadata	EventArgs
onpointerlockchange	EventArgs
onpointerlockerror	EventArgs
on ready state change	EventArgs
onscroll	EventArgs

#### **Focus events**

DOM event	Argument type
onfocus	FocusEventArgs
on <i>b</i> lur	FocusEventArgs
on <i>f</i> ocus <i>i</i> n	FocusEventArgs
on <i>f</i> ocus <i>o</i> ut	FocusEventArgs

#### **Mouse events**

DOM event	Argument type
on <i>m</i> ouseover	MouseEventArgs
on <i>m</i> ouseout	MouseEventArgs
on <i>m</i> ouse <i>m</i> ove	MouseEventArgs
on <i>m</i> ouse <i>d</i> own	MouseEventArgs
on <i>m</i> ouse <i>u</i> p	MouseEventArgs

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onclick	MouseEventArgs
on <i>d</i> blclick	MouseEventArgs
oncontextmenu	MouseEventArgs
onwheel	WheelEventArgs
on <i>m</i> ousewheel	WheelEventArgs

#### **Drag events**

DOM event	Argument type
on <i>d</i> rag	DragEventArgs
on <i>d</i> ragend	DragEventArgs
on <i>d</i> ragenter	DragEventArgs
on <i>d</i> rag <i>l</i> eave	DragEventArgs
on <i>d</i> rag <i>o</i> ver	DragEventArgs
on <i>d</i> ragstart	DragEventArgs
on <i>d</i> rop	DragEventArgs

#### **Keyboard events**

DOM event	Argument type
on <i>k</i> ey <i>d</i> own	KeyboardEventArgs
onkeyup	KeyboardEventArgs
on <i>k</i> ey <i>p</i> ress	KeyboardEventArgs

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### **Input events**

DOM event	Argument type
onchange	ChangeEventArgs
on <i>i</i> nput	ChangeEventArgs
on <i>i</i> nvalid	EventArgs
on <i>r</i> eset	EventArgs
onselect	EventArgs
onselectstart	EventArgs
onselectionchange	EventArgs
onsubmit	EventArgs

# **Clipboard events**

DOM event	Argument type
on <i>b</i> efore <i>c</i> opy	EventArgs
on <i>b</i> efore <i>c</i> ut	EventArgs
on <i>b</i> efore <i>p</i> aste	EventArgs
oncopy	ClipboardEventArgs
oncut	ClipboardEventArgs
on <i>p</i> aste	ClipboardEventArgs

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#### **Touch events**

DOM event	Argument type
ontouchcancel	TouchEventArgs
ontouchend	TouchEventArgs
ontouch <i>m</i> ove	TouchEventArgs
ontouchstart	TouchEventArgs
ontouchenter	TouchEventArgs
ontouch <i>l</i> eave	TouchEventArgs

#### **Pointer events**

DOM event	Argument type
on got pointer capture	PointerEventArgs
on <i>l</i> ost <i>p</i> ointercapture	PointerEventArgs
on <i>p</i> ointer <i>c</i> ancel	PointerEventArgs
on <i>p</i> ointer <i>d</i> own	PointerEventArgs
on <i>p</i> ointerenter	PointerEventArgs
on <i>p</i> ointer <i>l</i> eave	PointerEventArgs
on <i>p</i> ointer <i>m</i> ove	PointerEventArgs
on <i>p</i> ointerout	PointerEventArgs
on <i>p</i> ointer <i>o</i> ver	PointerEventArgs
on <i>p</i> ointer <i>u</i> p	PointerEventArgs

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#### **Media events**

DOM event	Argument type
on <i>c</i> an <i>p</i> lay	EventArgs
oncan <i>p</i> lay <i>t</i> hrough	EventArgs
oncuechange	EventArgs
on duration change	EventArgs
onemptied	EventArgs
on <i>p</i> ause	EventArgs
on <i>p</i> lay	EventArgs
on <i>p</i> laying	EventArgs
on <i>r</i> atechange	EventArgs
onseeked	EventArgs
onseeking	EventArgs
onstalled	EventArgs
onstop	EventArgs
onsuspend	EventArgs
on <i>t</i> ime <i>u</i> pdate	EventArgs
onvolumechange	EventArgs
onwaiting	EventArgs

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# **Progress events**

DOM event	Argument type
on <i>l</i> oadstart	ProgressEventArgs
on <i>t</i> imeout	ProgressEventArgs
on <i>a</i> bort	ProgressEventArgs
on <i>l</i> oad	ProgressEventArgs
on <i>l</i> oadend	ProgressEventArgs
on <i>p</i> rogress	ProgressEventArgs
onerror	ErrorEventArgs

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