

English ▼

ValidityState

The **ValidityState** interface represents the *validity states* that an element can be in, with respect to constraint validation. Together, they help explain why an element's value fails to validate, if it's not valid.

Properties

For each of these Boolean properties, a value of `true` indicates that the specified reason validation may have failed is true, with the exception of the **valid** property, which is `true` if the element's value obeys all constraints.

badInput | Read only

A Boolean that is `true` if the user has provided input that the browser is unable to convert.

customError | Read only

A Boolean indicating whether the element's custom validity message has been set to a non-empty string by calling the element's `setCustomValidity()` method.

patternMismatch | Read only

A Boolean that is `true` if the value does not match the specified `pattern`, and `false` if it does match. If true, the element matches the `:invalid` CSS pseudo-class.

rangeOverflow | Read only

A Boolean that is `true` if the value is greater than the maximum specified by the `max` attribute, or `false` if it is less than or equal to the maximum. If true, the element matches the `:invalid` and `:out-of-range` CSS pseudo-classes.

rangeUnderflow | Read only

A Boolean that is `true` if the value is less than the minimum specified by the `min` attribute, or `false` if it is greater than or equal to the minimum. If true, the element matches the `:invalid` and `:out-of-range` CSS pseudo-classes.

stepMismatch | Read only

A Boolean that is `true` if the value does not fit the rules determined by the `step` attribute (that is, it's not evenly divisible by the step value), or `false` if it does fit the step rule. If true, the element matches the `:invalid` and `:out-of-range` CSS pseudo-classes.

tooLong | Read only

A Boolean that is `true` if the value exceeds the specified `maxlength` for `HTMLInputElement` or `HTMLTextAreaElement` objects, or `false` if its length is less than or equal to the maximum length. **Note:** *This property is never true in Gecko, because elements' values are prevented from being longer than `maxLength`.* If true, the element matches the `:invalid` and `:out-of-range` CSS pseudo-classes.

tooShort | Read only

A Boolean that is `true` if the value fails to meet the specified `minlength` for `HTMLInputElement` or `HTMLTextAreaElement` objects, or `false` if its length is greater than or equal to the minimum length. If true, the element matches the `:invalid` and `:out-of-range` CSS pseudo-classes.

typeMismatch | Read only

A Boolean that is `true` if the value is not in the required syntax (when `type` is `email` or `url`), or `false` if the syntax is correct. If true, the element matches the `:invalid` CSS pseudo-class.

valid | Read only

A Boolean that is `true` if the element meets all its validation constraints, and is therefore considered to be valid, or `false` if it fails any constraint. If true, the element matches the `:valid` CSS pseudo-class; the `:invalid` CSS pseudo-class otherwise.

valueMissing | Read only

A Boolean that is `true` if the element has a `required` attribute, but no value, or `false` otherwise. If true, the element matches the `:invalid` CSS pseudo-class.

Specifications

Specification	Status	Comment
HTML Living Standard The definition of 'ValidityState' in	LS Living Standard	Living Standard

that specification.

HTML 5.1

The definition of 'ValidityState' in that specification.

 **REC**
Recommendation

No change from the previous snapshot HTML5.

HTML5

The definition of 'ValidityState' in that specification.

 **REC**
Recommendation

First snapshot of HTML Living Standard containing this interface.

Browser compatibility

[Update compatibility data on GitHub](#)

ValidityState

Chrome	15
Edge	12
Firefox	4
IE	10
Opera	12.1
Safari	11
WebView Android	4
Chrome Android	Yes
Firefox Android	64
Opera Android	12.1
Safari iOS	5
Samsung Internet Android	Yes

badInput

Chrome	25
Edge	14
Firefox	29

IE	No
Opera	15
Safari	11
WebView Android	4.4
Chrome Android	Yes
Firefox Android	64
Opera Android	14
Safari iOS	7
Samsung Internet Android	Yes

tooLong

Chrome	15
Edge	12
Firefox	4
IE	10
Opera	15
Safari	11
WebView Android	4
Chrome Android	Yes
Firefox Android	64
Opera Android	14
Safari iOS	5
Samsung Internet Android	Yes

tooShort

Chrome	40
Edge	17
Firefox	51
IE	No
Opera	27

Safari	11
WebView Android	67
Chrome Android	Yes
Firefox Android	64
Opera Android	27
Safari iOS	10
Samsung Internet Android	Yes

What are we missing?



Full support



No support

See implementation notes.

See also

- [Guide: Constraint validation](#)
- [Tutorial: Form data validation](#)

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ValidityState

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- badInput
- patternMismatch
- rangeOverflow

rangeUnderflow

stepMismatch

tooLong

typeMismatch

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HTMLAreaElement

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HTMLBaseFontElement

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HTMLCanvasElement

HTMLContentElement

HTMLDListElement

HTMLDataElement

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HTMLFieldSetElement

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HTMLFormElement

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HTMMLegendElement
HTMMLinkElement
HTMLMapElement
HTMLMediaElement
HTMLMetaElement
HTMLMeterElement
HTMLModElement
HTMLOListElement
HTMLObjectElement
HTMLOptGroupElement
HTMLOptionElement
HTMLOptionsCollection
HTMLOutputElement
HTMLParagraphElement
HTMLParamElement
HTMLPictureElement
HTMLPreElement
HTMLProgressElement
HTMLQuoteElement
HTMLScriptElement
HTMLSelectElement
HTMLShadowElement
HTMLSourceElement
HTMLSpanElement

HTMLStyleElement
HTMLTableCaptionElement
HTMLTableCellElement
HTMLTableColElement
HTMLTableDataCellElement
HTMLTableElement
HTMLTableHeaderCellElement
HTMLTableRowElement
HTMLTableSectionElement
HTMLTemplateElement
HTMLTextAreaElement
HTMLTimeElement
HTMLTitleElement
HTMLTrackElement
HTMLUListElement
HTMLUnknownElement
HTMLVideoElement
HashChangeEvent
History
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NavigatorOnLine
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PageTransitionEvent
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