

Html form input type float

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⚡ HTML type attribute Define a field for entering a number (You can also set restrictions on what numbers are accepted): Quantity (between 1 and 5): Try it Yourself » Definition and Usage The defines a field for entering a number. Use the following attributes to specify restrictions: max - specifies the maximum value allowed min - specifies the minimum value allowed step - specifies the legal number intervals value - Specifies the default value Tip: Always add the tag for best accessibility practices! Browser Support Attribute type="number" Yes Yes Yes Yes Yes Syntax ⚡ HTML type attribute floating-pointhtmlinput According to html5.org, the "number" input type's "value attribute, if specified and not empty, must have a value that is a valid floating point number." Yet it is simply (in the latest version of Chrome, anyway), an "updown" control with integers, not floats: Is there a floating point input element native to HTML5, or a way to make the number input type work with floats, not ints? Or must I resort to a jQuery UI plugin? The number type has a step value controlling which numbers are valid (along with max and min), which defaults to 1. This value is also used by implementations for the stepper buttons (i.e. pressing up increases by step). Simply change this value to whatever is appropriate. For money, two decimal places are probably expected: Total Amount (I'd also set min=0 if it can only be positive) If you'd prefer to allow any number of decimal places, you can use step="any" (though for currencies, I'd recommend sticking to 0.01). In Chrome & Firefox, the stepper buttons will increment / decrement by 1 when using any. (thanks to Michal Stefanow's answer for pointing out any, and see the relevant spec here) Here's a playground showing how various steps affect various input types: Step 1 (default) Step 0.01 Step any Step 20 Step 60 (default) Step 1 Step any Step 0.001 Step 3600 (1 hour) Step 86400 (1 day) Step 70 (1 min, 10 sec)

As usual, I'll add a quick note: remember that client-side validation is just a convenience to the user. You must also validate on the server-side! As you may already know, HTML5 has introduced a number of new input types, one of which is the "number" type. As you might expect, this is a form field which accepts numeric input. So what happens in Chrome with the following HTML when we try to enter a decimal (floating point) number and submit the form? Answer: Chrome pops up a validation error: So what's going on here? Is it a bug? It doesn't fail in Firefox. Well actually it's not a bug: the form field is behaving as defined by the W3C. Numeric input fields can take additional attributes "min" and "step", which constrain the range of values allowed in your input. The "min" attribute is fairly obvious: it's the minimum value your number can be. The "step" attribute is less intuitive: by playing with different values, you would most likely work out that it controls the increase/decrease when clicking the up/down buttons on the field. If you input the number 1 and click the up arrow, it will increase to 2. This is because the default step is 1. So far, so obvious. However, the step attribute also determines which values are valid, so a step of 1 means you can enter 1, 2, 3 etc. and a step of 2 means you can enter 2, 4, 6 etc. and when you click the up/down buttons the number will increase/decrease by 2 each time, but entering 3 or 5 in the box will cause a validation error. You can also use a decimal value: for example, a step of 0.3 will allow values such as 0.3, 0.6, 0.9 etc, but not 1 or 2. But what if you want all the numbers to be valid, integers and decimals alike? In this case, set step to "any": Now you don't get a validation error. Yay! Also note that if you only want to accept positive numbers, you'll want to add min="0". So the lesson here is that the "step" attribute is linked to both the up/down buttons and the range of values allowed in the field. When step="any", the up/down buttons will increase/decrease the number by 1. As far as I can tell, there is no way to have step="any" and an increase/decrease of more (or less) than 1 when clicking the up/down buttons. Feel free to enlighten me in the comments though! About us: Isotoma is a bespoke software development company based in York and London specialising in web apps, mobile apps and product design. If you'd like to know more you can review our work or get in touch. Wrap a pair of and elements in .form-floating to enable floating labels with Bootstrap's textual form fields. A placeholder is required on each as our method of CSS-only floating labels uses the :placeholder-shown pseudo-element. Also note that the must come first so we can utilize a sibling selector (e.g., ~). When there's a value already defined, s will automatically adjust to their floated position. Input with value Form validation styles also work as expected. Invalid input Textareas By default, s with .form-control will be the same height as s. Comments To set a custom height on your, do not use the rows attribute. Instead, set an explicit height (either inline or via custom CSS). Comments Selects Other than .form-control, floating labels are only available on .form-selects. They work in the same way, but unlike s, they'll always show the in its floated state. Selects with size and multiple are not supported. Open this select menu One Two Three Works with selects Open this select menu One Two Three Works with selects Readonly plaintext Floating labels also support .form-control-plaintext, which can be helpful for toggling from an editable to a plaintext value without affecting the page layout. Input groups Floating labels also support .input-group. When using .input-group and .form-floating along with form validation, the -feedback should be placed outside of the .form-floating, but inside of the .input-group. This means that the feedback will need to be shown using javascript. Layout When working with the Bootstrap grid system, be sure to place form elements within column classes. Sass Variables \$form-floating-height: add(3.5rem, \$input-height-border); \$form-floating-line-height: 1.25; \$form-floating-padding-x: \$input-padding-x; \$form-floating-padding-y: 1rem; \$form-floating-input-padding-t: 1.625rem; \$form-floating-input-padding-b: .625rem; \$form-floating-label-opacity: .65; \$form-floating-label-transform: scale(.85) translateY(-.5rem) translateX(.15rem); \$form-floating-transition: opacity .1s ease-in-out, transform .1s ease-in-out, 4 days ago Example of using type="number" with its min, max, and step attributes: Here, the valid input would be 5, 10, 15, 20, and 25, and any other value will be rejected. For any floating-point numbers, use type="number", as it is widely supported and can also help to prevent random input. You can use the "any" value with step to allow any number ... Show details We've already covered the fact that by default, the increment is 1, and you can use the step attribute to allow decimal inputs. Let's take a closer look. In the following example is a form for entering the user's height. It defaults to accepting a height in meters, but you can click the relevant button to change the form to accept feet and inches instead. The input for the height in meters accepts decimals to two places. The HTML looks like this: Enter your height — meters; Enter your height — feet: inches. You'll see that we are using many of the attributes we've already looked at in the article earlier on. Since we want to accept a meter value in centimeters, we've set the step value to 0.01, so that values like 1.78 are not seen as invalid. We've also provided a placeholder for that input. We've hidden the feet and inches inputs initially using style="display: none;", so that meters is the default entry type. Now, onto the CSS. This looks very similar to the validation styling we saw before; nothing remarkable here. div { margin-bottom: 10px; position: relative; } input[type="number"] { width: 100px; } input + span { padding-right: 30px; } input:invalid+span:after { position: absolute; content: '✖'; padding-left: 5px; } input:valid+span:after { position: absolute; content: '✓'; padding-left: 5px; } And finally, the JavaScript: const metersInputGroup = document.querySelector('.metersInputGroup'); const feetInputGroup = document.querySelector('.feetInputGroup'); const metersInput = document.querySelector('#meters'); const feetInput = document.querySelector('#feet'); const inchesInput = document.querySelector('#inches'); const switchBtn = document.querySelector('input[type="button"]'); switchBtn.addEventListener('click', () => { if (switchBtn.getAttribute('class') === 'meters') { switchBtn.setAttribute('class', 'feet'); switchBtn.value = 'Enter height in meters'; metersInputGroup.style.display = 'none'; feetInputGroup.style.display = 'block'; feetInput.setAttribute('required', ''); inchesInput.setAttribute('required', ''); metersInput.removeAttribute('required'); metersInput.value = ''; } else { switchBtn.setAttribute('class', 'meters'); switchBtn.value = 'Enter height in feet and inches'; metersInputGroup.style.display = 'block'; feetInputGroup.style.display = 'none'; feetInput.removeAttribute('required'); inchesInput.removeAttribute('required'); metersInput.setAttribute('required', ''); feetInput.value = ''; inchesInput.value = ''; } }); After declaring a few variables, an event listener is added to the button to control the switching mechanism. This is pretty simple, mostly involving changing over the button's class and , and updating the display values of the two sets of inputs when the button is pressed. (Note that we're not converting back and forth between meters and feet/inches here, which a real-life web application would probably do.) Note: When the user clicks the button, the required attribute(s) are removed from the input(s) we are hiding, and empty the value attribute(s). This is so the form can be submitted if both input sets aren't filled in. It also ensures that the form won't submit data that the user didn't mean to. If you didn't do this, you'd have to fill in both feet/inches and meters to submit the form!

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