<input type="number">

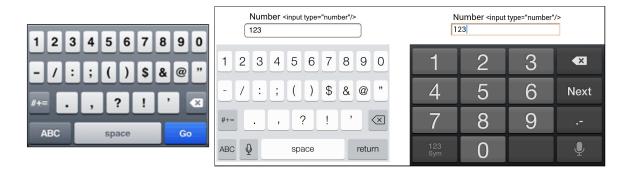
This input field is useful for entering numerical values (integer or float), but not for entering zip codes. On desktop implementations and on some mobile implementations, it provides a user interface with small vertical arrows for incrementing/decrementing the current value, while on mobiles it will display a numeric keyboard.

For zip codes, a <input type="text" pattern="...."> is preferable. See examples given in the the pattern attribute section of this course.



Example: <input type="number" value="25" min="0" step="5" max="500"/>

Screenshot examples taken with mobile devices (left: IOS, right: Android)



Examples on desktop (the width will be adjusted depending on the min and max attributes):

Quantity (between 1 and 5):	
Quantity (between 1 and 5):	3 Soumettre

TYPICAL USAGE

<input type="number" value="25" min="0" step="5" max="500"/>

This field accepts specific attributes max, min, step, value(default displayed value).

This input type is very interesting as it provides default validation behaviors:

- If the value entered using a keyboard is not a valid number, or is not in the range defined by the min and max attributes, the field is *invalid* and gets the pseudo CSS class :invalid,
- If the value is a number and is between min and max and multiple of step, then it gets the CSS pseudo class :valid

WARNING: Using a step attribute with an integer value will make the arrows increment/decrement the current value with thestep value, and make the input field valid only when multiples of the step value are entered. By default, omitting the step attribute is equivalent to step="1", so for entering float values, it is necessary to use step="any".

Online example at JS Bin: (try changing the attribute values, usestep="any" and try float values, etc).

Or, do it here in your browser (enter manually a value that is not in the range, or not a multiple of 5, try the up and down arrows, etc.):

Quantity (between 1 and 500, should be a multiple of 5 otherwise it's invalid): 25

Source code:

```
<!DOCTYPE html>
<html>
<head>
<style>
#number:invalid {
    background-color:pink;
    }

#number:valid {
    background-color:lightGreen;

10. }
</style>
</head>
<body>
```

```
Example of <code><input type=number></code>:
    <label for="number">Quantity (between 1 and 500, should be a multiple of 5
    otherwise it's invalid):</label>
    <input type="number" id="number" value="25"min="0" step="5" max="500"/>

    Change the different values for attributes step, max, min, value, dont't forget to try step="any" for float values...
    </body>
    </html>
```

SOURCE CODE FOR THE KNOWLEDGE CHECK

```
<!DOCTYPE html>
    <html lang="en">
    <head>
     <meta charset="utf-8">
     <title>Example type=number</title>
     <style>
       #myField:valid {
         background-color:lightGreen;
       }
       #myField:invalid {
10.
          background-color:pink;
       }
     </style>
    </head>
    <body>
      <label for="myField">Please enter a number between 0 and 30: </label>
      <input type="number" id="myField" min="0"step="5" max="30"/>
    </body>
19. </html>
```

KNOWLEDGE CHECK 5.4.5 (NOT GRADED)

Suppose we enter the value 17 in the input field defined by the above code. What will be the

Suppose we enter the value 17 in the input field defined by the above code. What will be the backgroung color?



lightGreer

 $^{\circ}$ red