input[month] DIRECTIVE IN ANGULARJS

- **input [month]** is one of the AngularJS input directive in module ng.
- AnguarJS directive **input [month]** is used to create an HTML element with month validation and transformation.
- The input value text must be entered in the format ISO-8601 (i.e. yyyy-MM)

  For ex: **2016-12.**
- This directives executes at priority level 0
- The model should be a Date object or else Angular will throw an error.
- Invalid Date objects (getTime( )) will be reflected as an empty string.
- The model is not set to the first of the month, then the next view to model update will set into the first of the month.

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Syntax for input [month] directive in AngularJs:

```
<input type="month"
        ng-model="string"
       [name="string"]
       [min ="string"]
       [max ="string"]
       [ng-min="date or string"]
       [ng-max=" date or string "]
       [required ="string"]
       [ng-required ="string"]
       [ng-change ="string"]>
```

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Parameter Values:

Parameters	Description
ngModel	Defines angular expression to data-bind to.
name (optional)	Name of the form under which the control is available.
min(optional)	To set the min validation error key if the value entered is shorted than min. (e.g {{ minmonth | date :'yyyy-MM'}})
max (optional)	To set the max validation error key if the value entered is greater than max. (e.g {{ maxmonth | date :'yyyy-MM'}})
ngMin (optional)	To set the min validation constraint to the Date/ISO week string the ngMin expression calculates to. Reminds that it does not set the min attribute.
ngMax(optional)	To set the max validation constraint to the Date/ISO week string the ngMax expression calculates to. Reminds that it does not set the max attribute.
required (optional)	Denotes the required validation error key if the value is not entered.
ngRequired (optional)	Sets the required attribute and required validation constraint to the element when the ngRequired expression sets to true. Instead of required use ngRequired when we want data-bind to the required attribute.

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ngChange (optional)	An expression of Angular to be executed when input changes due to user interaction with the input element.

Sample coding for input[month] directive in AngularJS

```
<!DOCTYPE html>
<html>
  <head>
    <title>Wikitechy AngularJS Tutorial</title>
    <script
src="https://ajax.googleapis.com/ajax/libs/angularjs/1.5.6/angular.min.js">
    </script>
  </head>
  <body>
    <form ng-app="myApp" name="Form" ng-controller="DateCtrl">
      <h3>input[month] directive example</h3>
      Pick a Month in 2016:
      <input type="month" name="input" ng-model="value"
          placeholder="yyyy-MM" min="2016-01" max="2016-12"
required/>
        <span  ng-show="Form.input.$error.required">
          Required!</span>
        <span  ng-show="Form.input.$error.month">
          Not a valid month!</span>
        <p>value = {{value | date: "yyyy-MM"}}</p>
        <p>Form.input.$valid = {{ Form.input.$valid }}</p>
        <p>Form.input.$error = {{ Form.input.$error }}</p>
        <p>Form.$valid = {{ Form.$valid }}</p>
        <p>Form.$error.required = {{ !!Form.$error.required }}</p>
    </form>
    <script>
      var app=angular.module('myApp', []);
      app.controller('DateCtrl', ['$scope', function($scope) {
      }]);
```

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```
    </script>
  </body>
</html>
```

Code Explanation input[email] directive in AngularJS:

```
<!DOCTYPE html>
<html>
    <head>
        <title>Wikitechy AngularJS Tutorial</title>
        <script src="https://ajax.googleapis.com/ajax/libs/angularjs/
        1.5.6/angular.min.js"></script>
    </head>
    <body>
        <form ng-app="myApp" name="Form" ng-controller="DateCtrl">
            <h3>input[month] directive example</h3>
            Pick a Month in 2016:
            <input type="month" name="input" ng-model="value"
                   placeholder="yyyy-MM" min="2016-01" max="2016-12" required />

            <span  ng-show="Form.input.$error.required">
                Required!</span>
            <span  ng-show="Form.input.$error.month">
                Not a valid month!</span>
            <p>value = {{value | date: "yyyy-MM"}}</p>
            <p>Form.input.$valid = {{ Form.input.$valid }}</p>
            <p>Form.input.$error = {{ Form.input.$error }}</p>
            <p>Form.$valid = {{ Form.$valid }}</p>
            <p>Form.$error.required = {{ !!Form.$error.required }}</p>
        </form>
        <script>
            var app=angular.module('myApp', []);
            app.controller('DateCtrl', ['$scope', function($scope) {
            }]);
        </script>
    </body>
</html>
```

1. The **ng-app** specifies the root element (**"myapp"**) to define AngularJS application.

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2. Ng-controller specifies the application controller in AngularJS the controller value is given as **"DateCtrl"**.
3. The **ng-model** bind an input field value to AngularJS application variable (**"value"**).
4. **Placeholder** is used to declare the month format (Like yyyy-MM).
5. **min** is used to set the min validation key starts from 2016-1
6. **max** parameter is used to declare the max validation key (i.e. 2016-12)
7. If the value is not entered into the text field then the **required** parameter is used.
8. Ng-show directive is used to hides HTML elements. If the required directive shows an error the content is displayed like **"Required"**
9. Ng-show directive is used to hides HTML elements. If the required directive shows an error the content is displayed like **"Not a valid month"**
10. Here the date filter formats a date into specified format (2016-12) and the output will be updated in the <p> tag.
11. **Form.input.$valid** to checks the valid month format or not. If the month is correct and the output displays true otherwise false.
12. **Form.input.$error** to check whether the month is error or not .If the month specified in error it throw an exception (Like "required"="true) otherwise it is an empty curly braces ({ }).
13. **Form.$valid** is used to check whether the form is valid or not and output will be displayed in <p> tag.

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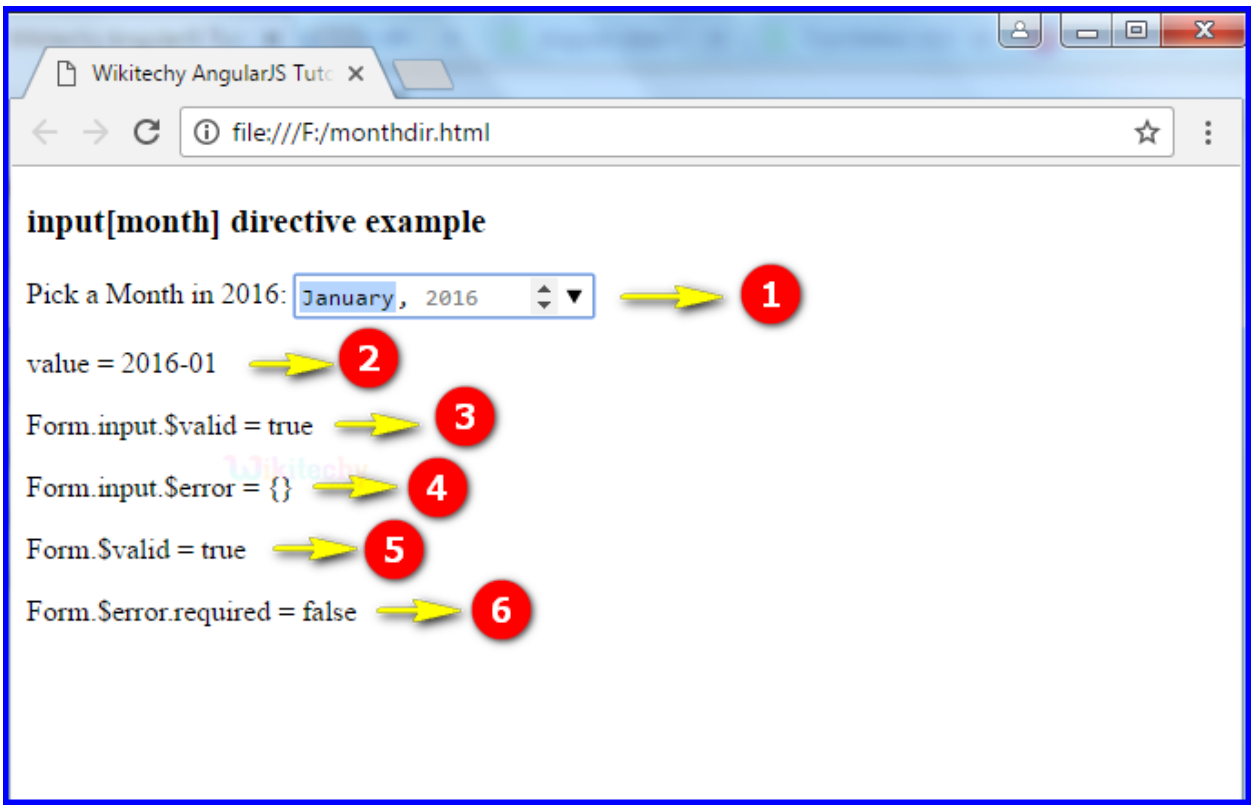
14. **Form.$error.required** is used to month is required or not. If the month is required and output will be displayed as false otherwise true.

Sample Output input[month] directive in AngularJS:



1. If the user scroll the month in the input field.
2. The output will be displays as **value=2016-01.**
3. The output displays true because it is consider as a specified month format.
4. The output displays empty curly braces it means there is no error.
5. The output displays true it is valid month.
6. If the text box does not empty so the output displays as false.

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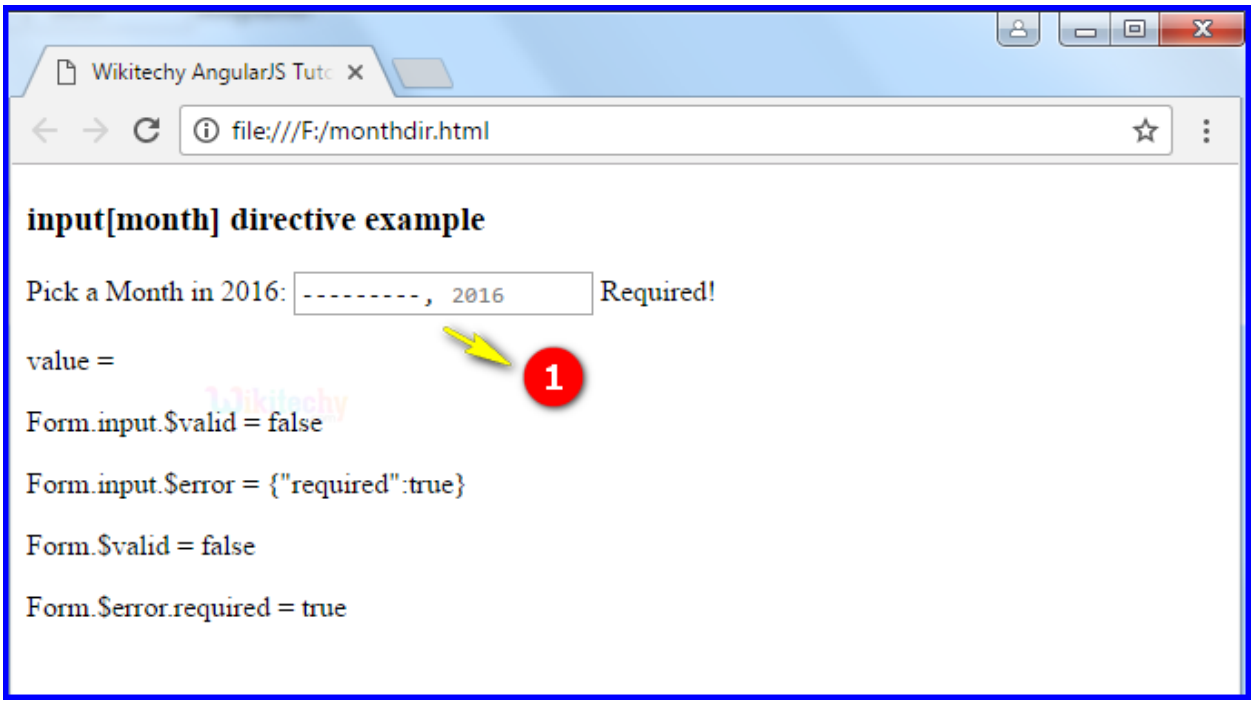

1. If user does not specify any month in the input field and output displays as “Required”.

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