

## 1. Basic

1) All textual `<input>`, `<textarea>`, and `<select>` elements with `.form-control` are set to width: 100%; by default.

2) Wrap labels and controls in `.form-group` for optimum spacing.

3) 각각은 `div`로 group별로 구분하는 것이 좋다.

```
<form>
  <div class="form-group">
    <label for="useremail">Email address</label>
    <input type="email" class="form-control" id="useremail" placeholder="Email">
  </div>
</form>
```

4) `<input type="file">` 경우

-아래와 같이 `.help-block` class를 사용하면 설명을 넣을 수 있다.

```
<div class="form-group">
  <label for="userfile">File input</label>
  <input type="file" id="userfile">
  <p class="help-block">Example block-level help text here.</p>
</div>
```

5) Checkbox나 Radio인 경우

```
<div class="checkbox">
  <label>
    <input type="checkbox"> Check me out
  </label>
</div>

<form>
  <div class="radio">
    <label>
      <input type="radio" name="gender"> Male
    </label>
  </div>
  <div class="radio">
    <label>
      <input type="radio" name="gender"> Female
    </label>
  </div>
</form>
```

## 2. Inline form

1) Add `.form-inline` to your form (which doesn't have to be a `<form>`) for left-aligned and inline-block controls.

2) This only applies to forms within viewports that are at least 768px wide.

3) 하지만 사용자 정의 넓이가 요구될 수도 있다.

```
<form class="form-inline">
  <div class="form-group">
    <label for="exampleInputName2">Name</label>
    <input type="text" class="form-control" id="exampleInputName2" placeholder="Jane Doe">
  </div>
  <div class="form-group">
    <label for="exampleInputEmail2">Email</label>
    <input type="email" class="form-control" id="exampleInputEmail2"
      placeholder="jane.doe@example.com">
  </div>
  <button type="submit" class="btn btn-default">Send invitation</button>
```

```

55     </form>
56
57 4) 항상 label이 내장되어 있으려면 .sr-only class를 사용한다.
58 -sr은 Screen Reader를 의미한다.
59 <form class="form-inline">
60     <div class="form-group">
61         <label class="sr-only" for="exampleInputEmail3">Email address</label>
62         <input type="email" class="form-control" id="exampleInputEmail3"
63             placeholder="Email">
64     </div>
65     <div class="form-group">
66         <label class="sr-only" for="exampleInputPassword3">Password</label>
67         <input type="password" class="form-control" id="exampleInputPassword3"
68             placeholder="Password">
69     </div>
70     <div class="checkbox">
71         <input type="checkbox"> Remember me
72     </div>
73     <button type="submit" class="btn btn-default">Sign in</button>
74 </form>
75
76
77 3. Horizontal form
78 1) 한 줄에 label과 form group을 배치하기 위한 layout
79 2) 각 행은 .row 대신에 .form-group class를 사용한다.
80 <div class="container-fluid">
81     <h1 class="h1 text-center">회원가입</h1>
82     <form class="form-horizontal">
83         <div class="form-group">
84             <label for="inputEmail3" class="col-sm-2 control-label">Email</label>
85             <div class="col-sm-8">
86                 <input type="email" class="form-control" id="inputEmail3" placeholder="Email">
87             </div>
88         </div>
89         <div class="form-group">
90             <label for="inputPassword3" class="col-sm-2 control-label">Password</label>
91             <div class="col-sm-4">
92                 <input type="password" class="form-control" id="inputPassword3"
93                     placeholder="Password">
94             </div>
95         </div>
96         <div class="form-group">
97             <label for="" class="col-sm-2 control-label">Gender</label>
98             <div class="col-sm-10 radio">
99                 <label for=""><input type="radio" name="gender" id="">Male</label>
100                 <label for=""><input type="radio" name="gender" id="">Female</label>
101             </div>
102         </div>
103         <div class="form-group">
104             <div class="col-sm-offset-2 col-sm-10">
105                 <button type="submit" class="btn btn-default">Sign in</button>
106             </div>
107         </div>
108     </form>
109 </div>

```

```
110
111 4. Supported controls
112 1)inputs
113 -Most common form control, text-based input fields. Includes support for all HTML5 types.
114 -text, password, datetime, datetime-local, date, month, time, week, number, email, url,
    search, tel, and color.
115
116 2)TextArea
117 -Form control which supports multiple lines of text.
118 -Change rows attribute as necessary.
119     <textarea class="form-control" rows="3"></textarea>
120
121 3)Checkboxes and radios
122 -default : stacked
123     <div class="checkbox">
124         <label>
125             <input type="checkbox" value="냑시">냑시
126         </label>
127     </div>
128     <div class="checkbox disabled">
129         <label>
130             <input type="checkbox" value="등산" disabled>등산
131         </label>
132     </div>
133
134     <div class="radio">
135         <label>
136             <input type="radio" name="gender" value="male" checked>Male
137         </label>
138     </div>
139     <div class="radio">
140         <label>
141             <input type="radio" name="gender" value="female">Female
142         </label>
143     </div>
144
145 -Inline checkboxes and radios
146 -Use the .checkbox-inline or .radio-inline classes.
147     <div>
148         <label class="checkbox-inline">
149             <input type="checkbox" value="냑시">냑시
150         </label>
151         <label class="checkbox-inline">
152             <input type="checkbox" value="등산">등산
153         </label>
154         <label class="checkbox-inline">
155             <input type="checkbox" value="게임">게임
156         </label>
157     </div>
158     <div>
159         <label class="radio-inline">
160             <input type="radio" name="gender" value="male">남성
161         </label>
162         <label class="radio-inline">
163             <input type="radio" name="gender" value="female">여성
164         </label>
165     </div>
166
```

```

167
168 5. Static control
169 1)미리 값이 결정되어 있어서 수정할 수 없이 값이 출력되어 있어야 할 때 사용.
170 2).form-control-static class 사용
171 <form class="form-horizontal">
172   <div class="form-group">
173     <label class="col-sm-2 control-label">Email</label>
174     <div class="col-sm-10">
175       <p class="form-control-static">email@example.com</p>
176     </div>
177   </div>
178   <div class="form-group">
179     <label for="inputPassword" class="col-sm-2 control-label">Password</label>
180     <div class="col-sm-10">
181       <input type="password" class="form-control" id="inputPassword"
182         placeholder="Password">
183     </div>
184   </div>
185 </form>
186
187 6. Validation states
188 1)입력창에 style을 주려면 form-group class에 has-style이름 class명을 넣어준다.
189 <div class="container">
190   <div class="row">
191     <div class="col-xs-12">
192       <form>
193         <div class="form-group has-success">
194           <label for="useremail">Email</label>
195           <input type="email" class="form-control" name="" id="useremail"
196             placeholder="Input Email">
197         </div>
198       </form>
199     </div>
200   </div>
201 </div>
202 2)label tag에 class="control-label"을 부여하면 form-group이 가지고 있는 style을 따라간다.
203 -즉 아래와 같이 email control에 has-success style을 부여한 것을 labe에게도 같이 부여하려면 label에
204 control-label을 부여하면 된다.
205 <div class="form-group has-success">
206   <label for="useremail" class="control-label">Email</label>
207   <input type="email" class="form-control" name="" id="useremail" placeholder="Input
208     Email">
209 </div>
210 <div class="form-group has-error">
211   <label for="userpasswd" class="control-label">Password</label>
212   <input type="password" class="form-control" name="" id="userpasswd"
213     placeholder="Input Password">
214 </div>
215 3)입력칸에 아이콘을 붙이려면 input-group으로 감싸고 그 안에 input-group-addon이라는 class명을 활용한다.
216 <div class="form-group has-success has-feedback">
217   <label for="" class="control-label">Input group with success</label>
218   <div class="input-group">
219     <span class="input-group-addon">@</span>
220     <input type="text" name="" id="" class="form-control">
221   </div>

```

```
220     </div>
221
222     4)red계열 style을 주려면 class명 has-error를 준다.
223
224
225 7. Lab
226 <!DOCTYPE html>
227 <html lang="en">
228 <head>
229     <meta charset="UTF-8">
230     <meta name="viewport" content="width=device-width, initial-scale=1.0">
231     <title>Document</title>
232     <link rel="stylesheet" href="css/bootstrap.css">
233     <script src="js/jquery-3.4.1.js"></script>
234     <script>
235
236         $(function(){
237             var flag = 0;
238             $("#name").bind("change", function(){
239                 if($("#name").val()){
240                     $("#namediv").attr("class", "form-group has-success has-feedback");
241                     $("#nameicon").attr("class", "glyphicon glyphicon-ok form-control-feedback");
242                     $("#namesr").text("(success)");
243                     flag++;
244                 }
245             });
246
247             $("#age").bind("keyup", function(){
248                 if($("#age").val() > 20 && $("#age").val() < 65){
249                     $("#agediv").attr("class", "form-group has-success has-feedback");
250                     $("#ageicon").attr("class", "glyphicon glyphicon-ok form-control-feedback");
251                     $("#agesr").text("(success)");
252                     flag++;
253                 }
254             });
255
256             $(".:radio").bind("click", function(){
257                 $("#genderdiv").attr("class", "form-group has-success has-feedback");
258                 flag++;
259             });
260
261             $("#city").bind("change", function(){
262                 if($("#city").val()){
263                     $("#citydiv").attr("class", "form-group has-success has-feedback");
264                     flag++;
265                     if(flag == 4){
266                         $('button').removeAttr("disabled");
267                     }
268                 }
269             });
270         })
271     </script>
272 </head>
273 <body>
274     <div class="container">
275         <div class="row">
276             <h1 class="h1 text-center">회원가입</h1>
277         </div>
```

```
278 <div class="row">
279   <form class="form-horizontal">
280     <div id="namediv" class="form-group has-error has-feedback">
281       <label for="name" class="col-sm-3 control-label">Name</label>
282       <div class="col-sm-6">
283         <div class="input-group">
284           <span class="input-group-addon"><span class="glyphicon
                glyphicon-user"></span></span>
285           <input type="text" name="name" id="name" class="form-control"
                placeholder="Enter your name">
286         </div>
287         <span id="nameicon" class="glyphicon glyphicon-remove form-control-feedback"
                aria-hidden="true"></span>
288         <span id="namesr" class="sr-only">(error)</span>
289       </div>
290     </div>
291
292     <div id="agediv" class="form-group has-error has-feedback">
293       <label for="age" class="col-sm-3 control-label">Age</label>
294       <div class="col-sm-4">
295         <div class="input-group">
296           <span class="input-group-addon"><span class="glyphicon
                glyphicon-music"></span></span>
297           <input type="number" name="age" id="age" class="form-control"
                placeholder="Enter your age">
298         </div>
299         <span id="ageicon" class="glyphicon glyphicon-remove form-control-feedback"
                aria-hidden="true"></span>
300         <span id="agesr" class="sr-only">(error)</span>
301       </div>
302     </div>
303
304     <div id="genderdiv" class="form-group has-error has-feedback">
305       <label class="col-sm-3 control-label">Gender</label>
306       <div class="col-sm-6">
307         <label class="radio-inline">
308           <input type="radio" name="gender" value="male">Male
309         </label>
310         <label class="radio-inline">
311           <input type="radio" name="gender" value="female">Female
312         </label>
313       </div>
314     </div>
315
316     <div id="citydiv" class="form-group has-error has-feedback">
317       <label for="city" class="col-sm-3 control-label">City</label>
318       <div class="col-sm-6">
319         <select name="city" id="city" class="form-control">
320           <option value="">--선택--</option>
321           <option value="서울">서울</option>
322           <option value="부산">부산</option>
323           <option value="대전">대전</option>
324           <option value="광주">광주</option>
325         </select>
326       </div>
327     </div>
328
329   <div class="form-group">
```

```
330         <div class="col-sm-6 col-sm-offset-3">
331             <button class="col-sm-4 btn btn-primary" disabled>Submit</button>
332         </div>
333     </div>
334 </form>
335 </div>
336 </div>
337 </body>
338 </html>
```