

Gnoga allows you to leverage existing HTML tools to quickly design and create Forms for use in Gnoga applications.

Here is a simple step by step guide to quickly creating a bootstrap based Form using a simple on-line tool with Gnoga.

### Create From On-Line

1. Go to <http://bootsnipp.com/forms?version=3>
2. Click on Form Name for the title that will be displayed above the form, for this Example: "Hello World Gnoga and Bootstrap"
3. Drag a "Text Input" on to the form with your mouse
4. Click on the Text Input and fill in:
  - a. ID/Name : fname
  - b. Label Text : First Name
  - c. Placeholder : blank
  - d. Help Text : Enter your first name
  - e. Click requied
  - f. Leave input size at Medium
  - g. Click Save
5. Drag a "Text Input" on to the form with your mouse under the First Name field
6. Click on the Text Input and fill in:
  - a. ID/Name : lname
  - b. Label Text : Last Name
  - c. Placeholder : blank
  - d. Help Text : Enter your last name
  - e. Click requied
  - f. Leave input size at Medium
  - g. Click Save
7. Click on the "buttons" tab above the form elements
8. Drag a Single Button over under the two fields
9. Click on the Single Button and fill in:
  - a. ID/Name : sbutton
  - b. Label Text : blank
  - c. Button Label : Ok
  - d. Leave button type : Primary
  - e. Click Save

### Create Gnoga Project:

10. Let's create our skelleton project using gnoga\_make:
11. Run (add path if needed): gnoga\_make new form\_demo1 multi\_connect
12. Edit the path (if needed) to gnoga at form\_demo1/src/form\_demo1.gpr

- a. Since I didn't use default install my with of gnoga now reads: with  
"/Users/dbotton/workspace/gnoga/src/gnoga.gpr"; instead of with "gnoga";
- 13. CD to the html directory for your project and copy from your gnoga/html directory  
boot\_bootstrap3.html and replace boot.html with it.
  - a. For example on my system : cp ~/workspace/gnoga/html/boot\_bootstrap3.html  
boot.html
- 14. CD to the css directory of your project and copy the bootstrap css files
  - a. For example on my system : cp ~/workspace/gnoga/css/bootstrap\* .
- 15. CD to the js directory and copy all the js files
  - a. For example on my system : cp ~/workspace/gnoga/js/\* .
- 16. Make the directory templates
  - a. For example on my system : mkdir templates
- 17. Go back to our form builder on the web and click the Rendered tab.
- 18. Copy the html and paste it into the body of form\_demo1.html in the directory templates.

### Edit Files:

- 19. Next we edit our view spec form\_demo1-view.ads
  - a. add with Gnoga.Gui.Element.Form;
  - b. Replace the record contents of Default\_View Type with:  
First\_Name : Gnoga.Gui.Element.Form.Text\_Type;  
Last\_Name : Gnoga.Gui.Element.Form.Text\_Type;
- 20. Next we edit our view form\_demo1-view.adb
- 21. In the procedure Create after the call to the parent Create add:
  - a. Replace the Create procedure body with:

```
Gnoga.Gui.View.View_Type (View).Create (Parent, ID);
View.Load_File ("form_demo1.html");
View.First_Name.Attach_Using_Parent (View, "fname");
View.Last_Name.Attach_Using_Parent (View, "lname");
```

- 22. Now lets edit the form\_demo1-controller.adb
  - a. Replace the On\_Click with:

```
procedure On_Submit (Object : in out Gnoga.Gui.Base.Base_Type'Class);

procedure On_Submit (Object : in out Gnoga.Gui.Base.Base_Type'Class) is
  View : form_demo1.View.Default_View_Type renames
    form_demo1.View.Default_View_Type (Object);
begin
  Gnoga.Log ("First Name : " & View.First_Name.Value);
  Gnoga.Log ("Last Name : " & View.Last_Name.Value);
```

```
end On_Submit;
```

```
b. Replace the body of Default with:  
View.Dynamic;  
View.Create (Main_Window);  
View.On_Submit_Handler (On_Submit'Access);
```

23. Now build the project by running make at the root dir of your project and open your browser to localhost:8080 and your done :)

The complete View and Controller files follow along with the form\_demo1.html clip from the website:

```
with Gnoga.Gui.Base;  
with Gnoga.Gui.View;  
with Gnoga.Gui.Element.Form;
```

```
package form_demo1.View is
```

```
type Default_View_Type is new Gnoga.Gui.View.View_Type with  
  record  
    First_Name : Gnoga.Gui.Element.Form.Text_Type;  
    Last_Name  : Gnoga.Gui.Element.Form.Text_Type;  
  end record;  
type Default_View_Access is access all Default_View_Type;  
type Pointer_to_Default_View_Class is access all Default_View_Type'Class;
```

```
overriding  
procedure Create  
  (View : in out Default_View_Type;  
   Parent : in out Gnoga.Gui.Base.Base_Type'Class;  
   ID : in String := "");
```

```
end form_demo1.View;
```

```
package body form_demo1.View is
```

```
-----  
-- Create --  
-----
```

```
overriding
```

```

procedure Create
  (View : in out Default_View_Type;
   Parent : in out Gnoga.Gui.Base.Base_Type'Class;
   ID : in String := "")
is
begin
  Gnoga.Gui.View.View_Type (View).Create (Parent, ID);
  View.Load_File ("form_demo1.html");
  View.First_Name.Attach_Using_Parent (View, "fname");
  View.Last_Name.Attach_Using_Parent (View, "lname");
end Create;

end form_demo1.View;

with Gnoga.Gui.Base;

with form_demo1.View;

package body form_demo1.Controller is

  procedure On_Submit (Object : in out Gnoga.Gui.Base.Base_Type'Class);

  procedure On_Submit (Object : in out Gnoga.Gui.Base.Base_Type'Class) is
    View : form_demo1.View.Default_View_Type renames
      form_demo1.View.Default_View_Type (Object);
  begin
    Gnoga.Log ("First Name : " & View.First_Name.Value);
    Gnoga.Log ("Last Name : " & View.Last_Name.Value);
  end On_Submit;

  procedure Default
    (Main_Window : in out Gnoga.Gui.Window.Window_Type'Class;
     Connection : access
       Gnoga.Application.Multi_Connect.Connection_Holder_Type)
  is
    View : form_demo1.View.Default_View_Type :=
      new form_demo1.View.Default_View_Type;
  begin
    View.Dynamic;
    View.Create (Main_Window);
    View.On_Submit_Handler (On_Submit'Access);
  end Default;

```

```
begin
  Gnoga.Application.Multi_Connect.On_Connect_Handler
    (Default'Access, "default");
end form_demo1.Controller;
```

### **templates/form\_demo.html**

```
<form class="form-horizontal">
<fieldset>

<!-- Form Name -->
<legend>Hello World Gnoga and Bootsrap</legend>

<!-- Text input-->
<div class="form-group">
  <label class="col-md-4 control-label" for="fname">First Name</label>
  <div class="col-md-4">
    <input id="fname" name="fname" type="text" placeholder="" class="form-control input-md"
required="">
    <span class="help-block">Enter your first name</span>
  </div>
</div>

<!-- Text input-->
<div class="form-group">
  <label class="col-md-4 control-label" for="lname">Last Name</label>
  <div class="col-md-4">
    <input id="lname" name="lname" type="text" placeholder="" class="form-control input-md"
required="">
    <span class="help-block">Enter your last name</span>
  </div>
</div>

<!-- Button -->
<div class="form-group">
  <label class="col-md-4 control-label" for="sbutton"></label>
  <div class="col-md-4">
    <button id="sbutton" name="sbutton" class="btn btn-primary">Ok</button>
  </div>
</div>
</fieldset>
</form>
```