

Cheatsheet * FormHelper

parsing form data

When a form is submitted to a Rails application, the parameters are automatically translated by Rails into the params object which is accessible as a hash structure.

Key/value pairs of your form's input fields are stored simply as key/value pairs in the params hash, such as the id which is extracted by routing from the URL:

/customers/1	id=1	1	:id	=>	"1"	}
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Square brackets [] are used to build more complex, nested structures:

text_field :user, :name	user[name]=David	{ :user => { :name => "David" }
text_field	user[address]	{ :user => { :address =>
"user[address]", :city	[city]=London	{ :city => "London" }}}
text_field	user[address]	{ :user => { :address =>
"user[address]", :street	[street]=Road	{ :street => "Road" }}}

Using empty square brackets [] after the name of a model object, such as is [], will insert the id of the record you are editing into the input field, useful for editing multiple records on one form

	<pre>text_field "address[]", :country</pre>	address[4] [country]=England	{ :address => { 4 => { :country => "England" }}}
1	<pre>text_field "address[]", :town</pre>	address[4] [town]=London	{ :address => { 4 => { :town => "London" }}

If the record is new and has no id, then upon submitting the form, Rails will convert the fields into an array of hashes in order of appearance:

<pre>text_field "address[]", :country text_field "address[]", :town</pre>	address[] [country]=England address[] [town]=London	{ :address => [
<pre>text_field "address[]", :country text_field "address[]", :town</pre>	address[] [country]=Australia address[] [town]=Sydney	{ :country => "Austra- lia", :town => "Sydney" }] }

input field helpers

```
f.error_messages
f.check_box :terms, { :class => 'check' }, "yes", "no"
f.file_field :image
f.hidden_field :id
f.label :customer, "Text for label"
f.password_field :password
f.radio_button :language, "French"
f.text_area :comment, :size => "20x30", :disabled => "disabled"
f.text_field :age, :size => "20", :class => "age_box"
 f.error_messages
```

Example

```
def new
    @customer = Customer.new
   3.times do
       @customer.addresses.build
    end
end
```

View

◆ Controller

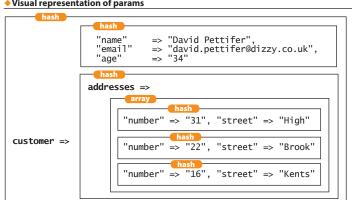
```
<% form_for(@customer) do |f| %>
       </= f.text_field :name %>
</= f.text_field :email %>
       %= 1.text_field .email %>
% @customer.addresses.each do |address| %>
    % fields_for "customer[addresses][]", address do |fields| %>
    %= fields.text_field :number %>
    %= fields.text_field :street %>
       <% end %>
<% end %>
```

```
◆HTML
 <form id="new_customer" class="new_customer" method="post" action="/</pre>
customers">
customers">
<input type="text" size="30" name="customer[name]"/>
<input type="text" size="30" name="customer[email]"/>
<input type="text" size="30" name="customer[addresses][][number]"/>
<input type="text" size="30" name="customer[addresses][][street]"/>
<input type="text" size="30" name="customer[addresses][][number]"/>
<input type="text" size="30" name="customer[addresses][][street]"/>
<input type="text" size="30" name="customer[addresses][][number]"/>
<input type="text" size="30" name="customer[addresses][][street]"/>
<input type="text" size="30" name="customer[addresses][][street]"/>
<input type="submit" value="Create" name="commit"/>
</form>
 </form>
```

params[]

```
params = {
          "customer" => {
                              1
        } }
```

◆Visual representation of params



form for

form_for is used to easily manipulate HTML forms which are based upon ActiveRecord model objects:

```
<%= submit_tag %>
<% end %>
```

Parameters

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:customer required	"string"	The name of the model object for all the fields in the form. All input fields will be prefixed with this. Rails will also look for an @instance_variable with the same name which should contain an instance of an existing or new ActiveRecord model object		
optional model object		If the @instance_variable containing the model object is named differently, you can pass a variable containing the actual model object here		
url <i>optional</i> :	"string" or {hash}	The URL to post the form to. Can take an explicit url as a string, or a hash in the same format as url_for		
		A {hash} of HTML attributes which will be added to the HTML <pre><form> tag.</form></pre>		
:method optional	:symbol	Pass as part of the {hash} of HTML attributes. Can be:put,:post,:get or:delete		

fields for

fields_for creates a scope around a specific model object like form_for, but doesn't create the form tags themselves, making fields_for suitable for specifying additional model objects in the same form. See the example on the left.

RESTful form for

When standard routes are used in a RESTful context, Rails will reflect upon the object passed to it and automatically build a form with the relevant RESTful URL depending on whether the form is wrapping a new record (create) or an existing record (update). Nested routes will require you to be more verbose.

◆Standard routes	new record?	method	URL
form_for(@customer)	✓	POST	/customers
form_for(@customer)	×	PUT	/customers/1
♦ Nested routes			
<pre>form_for(@address, :url => customer_addresses_path(@ customer))</pre>	✓	POST	/customers/1/ad- dresses
<pre>form_for(@address, :url => customer_addresses_path(@ customer))</pre>	×	PUT	/customers/1/ addresses/24

Multipart form

```
<% end %>
```

Model

```
class Customer < ActiveRecord::Base
def image_file=(uploaded_data)
self.filename = uploaded
             self.filename = uploaded_data.original_filename
self.image_data = uploaded_data.read
self.size = uploaded_data.size
             self.content_type = uploaded_data.content_type
       end
```



