
Havaiana Documentation

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Havaiana is a dynamic web interface for Ojota (<http://ojota.rtfid.org>).

Havaiana is Free Software! you can check the code at <http://github.com/felipelerena/havaiana>

How to use it

1.1 Hello World

```
import ojota.examples.examples as pkg
from havaiana import Site

site = Site(pkg)
site.serve()
```

1.2 Custom rendering for a field

```
import food_data

from havaiana import Site

def ingredients_list(field, item, backwards):
    required = field in item.required_fields
    ingredients = getattr(item, field)
    items = []
    for element in ingredients:
        item = '<li><a href="/Ingredients/%s">%s</a></li>' % (element.primary_key,
                                                                element)

        items.append(item)
    value = "<ul>%s</ul>" % "".join(items)
    related = False

    return (field, value, required, related)

if __name__ == "__main__":
    renderers = [('Recipe', 'ingredients', ingredients_list)]
    site = Site(food_data, "My Food Database", renderers)

    site.serve()
```

1.3 Adding a chart on a view

```
import food_data
```

```
from havaiana import Site
from havaiana.charts import LineChart

class RainChartView(LineChart):
    def __init__(self):
        LineChart.__init__(self, "Recipes uploaded to the site",
                            "uploads", 800, 400)

    def get_data(self, data):
        keys = []
        points = []
        for element in data:
            keys.append(element.date)
            points.append({"value": int(element.number),
                          "xlink": "/Recipes uploaded by day/%s" % element.date})
        return keys, points

if __name__ == "__main__":
    renderers = [
        ('RecipesByDay', "__index_chart", RainChartView)
    ]

    site = Site(food_data, "My Food Database", renderers)
    site.serve()
```


Screenshots

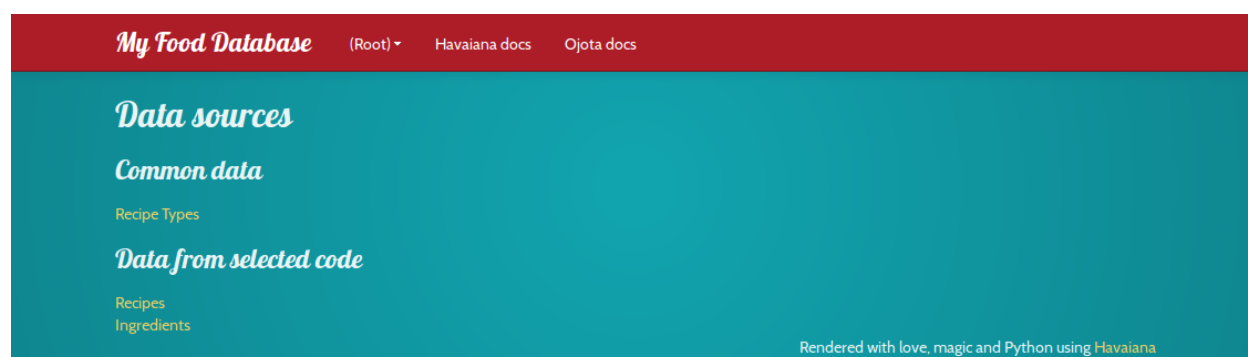


Fig. 2.1: All the data sources in the package.

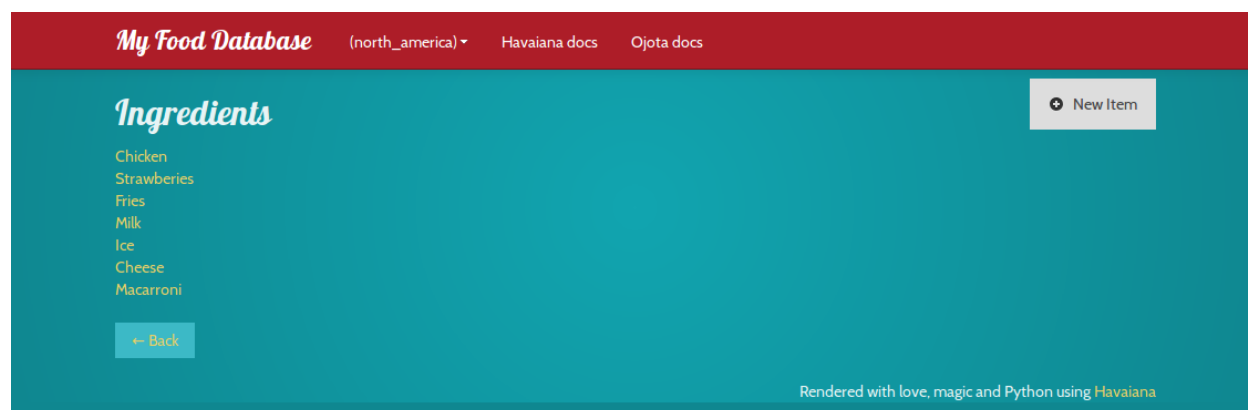


Fig. 2.2: The items in the data source.

```
sudo easy_install Havaiana
```

With pip

```
sudo pip install Havaiana
```

From source

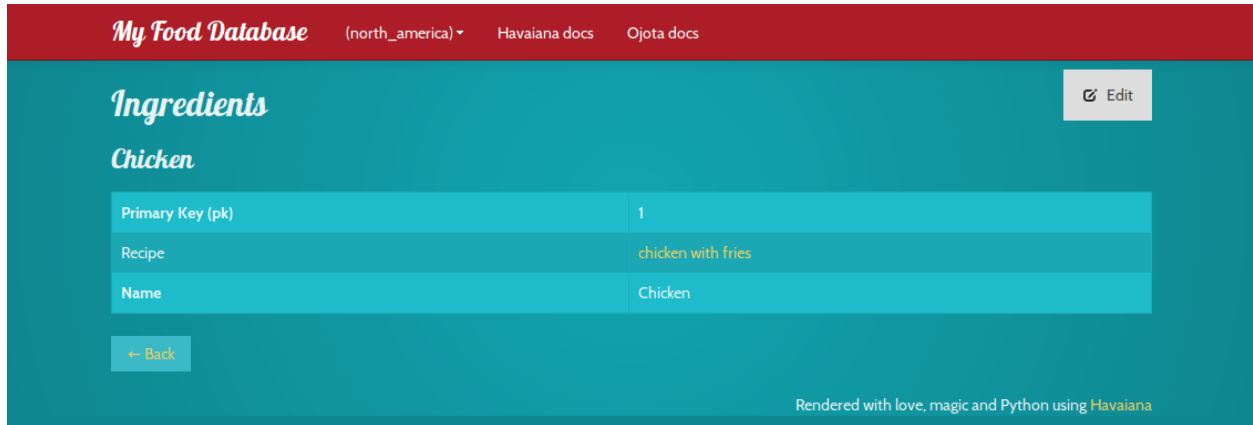


Fig. 2.3: An item detail.

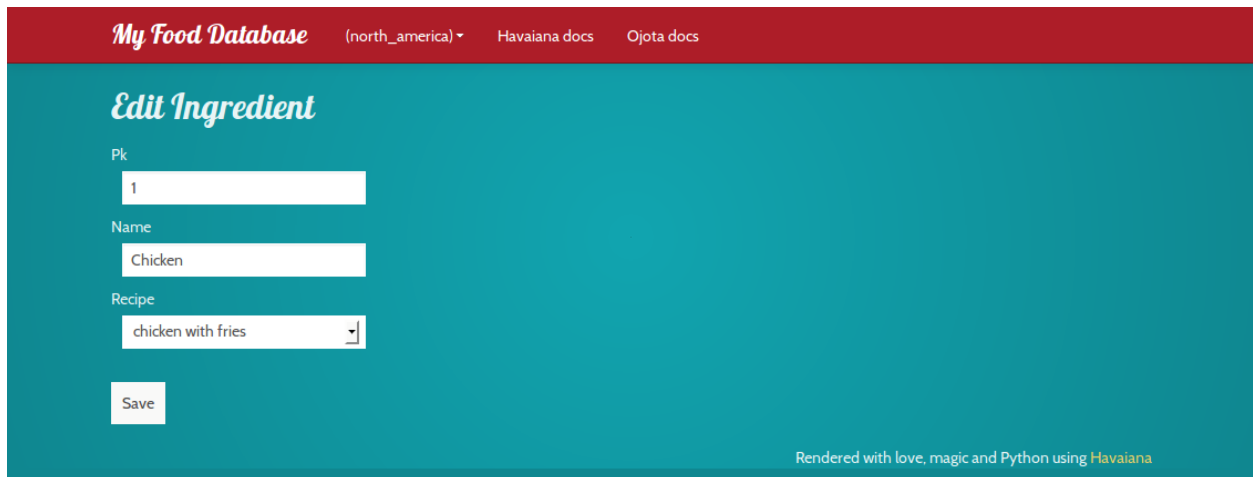


Fig. 2.4: Edit an existing element.



Fig. 2.5: Create new element.

The screenshot shows a web application interface for a recipe database. At the top, there is a dark red navigation bar with the text "My Food Database" in white, and two links: "Havaiana docs" and "Ojota docs". Below the navigation bar is a teal header with the word "Recipes" in a white, cursive font. Underneath, the title "Mac and Cheese" is displayed in a white, cursive font. The main content area is a teal table with the following rows:

Primary Key (pk)	3
Instructions	Does not exist outside US
Name	Mac and Cheese
Recipe type	Main course
ingredients	<ul style="list-style-type: none">• Cheese• Macarroni

At the bottom left of the table area, there is a light blue button with a left-pointing arrow and the text "Back". At the bottom right of the teal area, there is a small white text string: "Rendered with love, magic and Python using Havaiana".

Fig. 2.6: A view with custom rendering.

The screenshot shows a web application interface for a list of ingredients. The title "Ingredients" is displayed in a white, cursive font on a teal background. Below the title is a list of ingredients: "Chicken", "Strawberries", "Fries", "Milk", "Ice", "Cheese", and "Macarroni". At the bottom left, there is a light blue button with a left-pointing arrow and the text "Back". At the top right, there is a grey button with a plus sign and the text "New Item", and a dropdown menu with a downward-pointing triangle and the text "Order". The dropdown menu is open, showing a list of options: "pk", "recipe_id", "name", and "No order".

Fig. 2.7: You can sort the data.

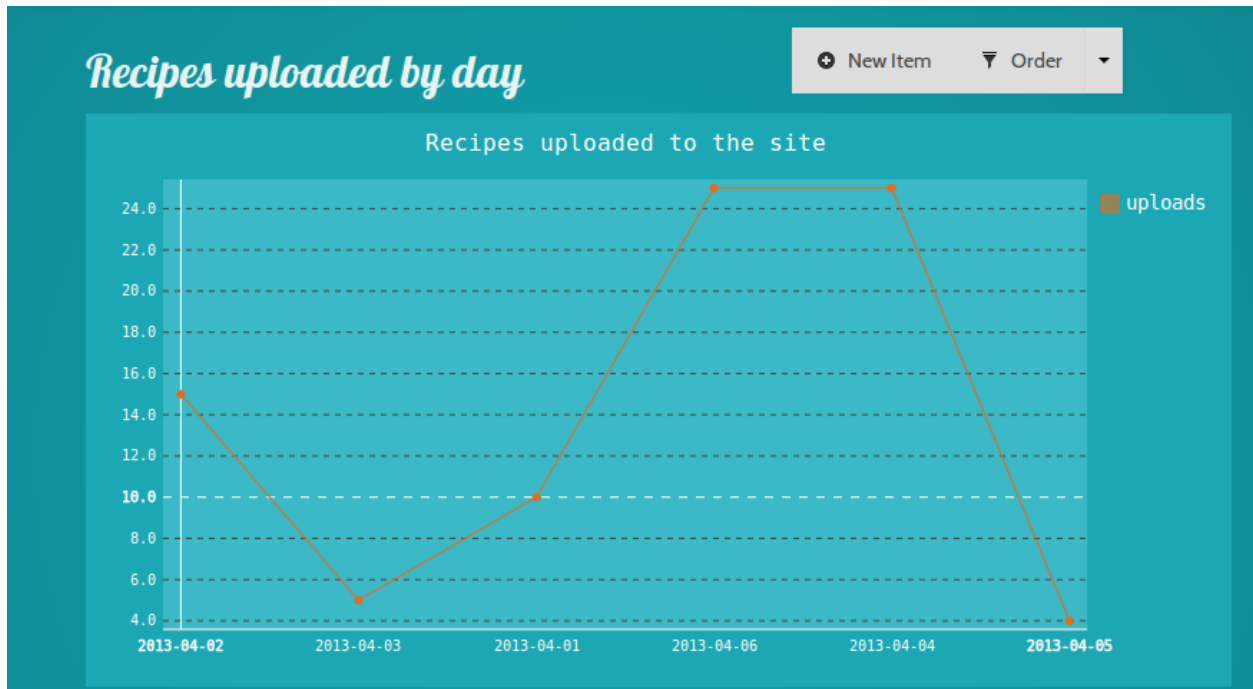


Fig. 2.8: *Render charts with your data*
Installation

```
git clone git@github.com:felipelerena/havaiana.git
sudo python setup.py install
```

Table of contents

3.1 Example

```
"""
This file is part of Havaiana.

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it under the terms of the GNU LESSER GENERAL PUBLIC LICENSE as published by
the Free Software Foundation, either version 3 of the License, or
(at your option) any later version.

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GNU Lesser General Public License for more details.

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along with Havaiana. If not, see <http://www.gnu.org/licenses/>.
"""
from __future__ import absolute_import

from __init__ import Site

import ojota.examples.examples as pkg

if __name__ == '__main__':
    site = Site(pkg)
    site.serve()
```

Dependencies

- flask
- Ojota
- wtforms
- pygal

Indices and tables

- `genindex`
- `modindex`
- `search`