



# Data Science Gallery 2

Justin Skycak  
July 11, 2016



# Previous Blueprint for Integrating my Prototype with Notebooks

ds-gallery/	
dslib/	network_plot.py save_to_gallery.py
assets/ images/	au-network.png
_includes/	image_list.html
_posts/	2016-06-27-au-network.markdown
scripts/	2016-06-27-au-dep-network.ipynb

```
2016-06-27-au-dep-network.ipynb

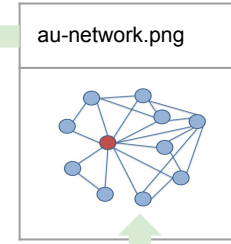
import dslib
load data
my_img = dslib.network_plot(data)
dslib.save_to_gallery(image = my_img, image_ext = ".png",
name = "au-dep-network", tags = ["au", "network"],
description = "This is a network visualization of Aunsight
dependencies")
```

```
2016-06-27-au-network.markdown

---
layout: post
image_ext: .png
code_ext: .ipynb
---

This is a network visualization of
Aunsight dependencies
```

```
{date: "2016-06-27",
name: "au-dep-network",
image_ext: ".png",
tags: ["au", "network"]}
```



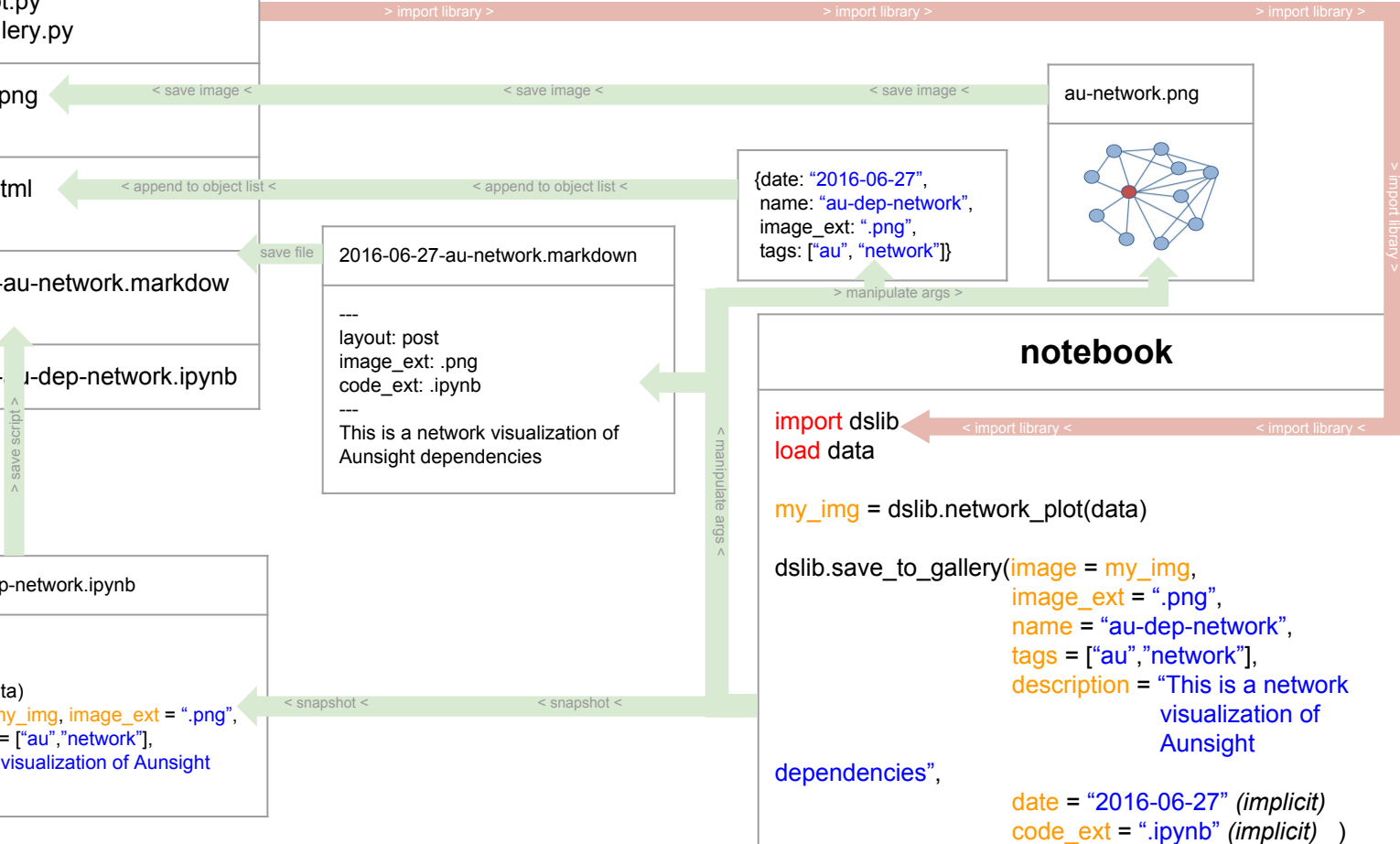
```
notebook

import dslib
load data

my_img = dslib.network_plot(data)

dslib.save_to_gallery(image = my_img,
image_ext = ".png",
name = "au-dep-network",
tags = ["au", "network"],
description = "This is a network
visualization of
Aunsight
dependencies",

date = "2016-06-27" (implicit)
code_ext = ".ipynb" (implicit) )
```



GraphDash can do more,  
better, than my prototype.

# GraphDash in Action

Default title

Default subtitle

Free text and #keywords

searchclear

---

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1. Category 1 (2)NEW

2. Category 2 (1 sub-family)IMPORTANT

# Setting Up GraphDash

```
$ git clone https://github.com/AmadeusITGroup/graphdash.git  
$ cd graphdash  
$ pip install --user
```

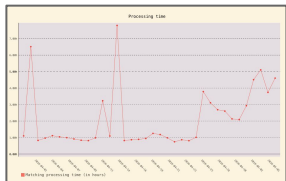
Add `export PATH = "~/.local/bin:$PATH"` to `~/.bash_profile`

```
$ GraphDash -c docs/graphdash.yaml  
(make sure you're in graphdash directory)
```

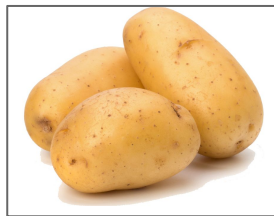
Graphs and their metadata are  
stored in `default_graph_dir`

default\_graph\_dir/ → http://0.0.0.0:5555/

graph.svg



graph.png



data.csv

```
15/01/2014,0.2257,0.1149,0.6594
16/01/2014,0.2164,0.1272,0.6565
17/01/2014,0.2196,0.1232,0.6572
18/01/2014,0.2222,0.122,0.6558
```

graph.yaml

```
name: graph.svg
family: [category 1, subcategory]
title: '*Real serious* graph'
export: graph.png
file: data.csv
labels: new
index: keyword
text: |
```

Title

----

This is the *\*overall\** data.

```
```bash
```

```
$ some code
```

```
```
```

```
```python
```

```
i = 0
```

```
def f():
```

```
    return 2
```

```
```
```

Example of title ;)

Example of subtitle

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1. Category 1 (2) NEW
2. Category 2 (1 sub-family) IMPORTANT



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- Category 1

1. Real serious graph NEW
2. Another important graph, again

← Example of title ;)

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1 / 2 NEW



**title**

This is the *overall* data.

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Tags: #new #keyword

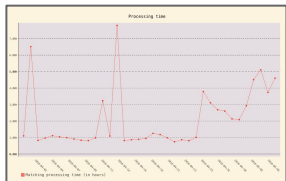
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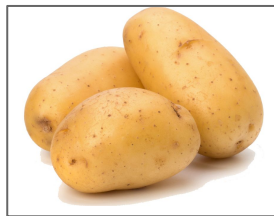


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Example of title ;)

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1. Category 1 (2) NEW
2. Category 2 (1 sub-family) IMPORTANT



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View full screen Export graph Get raw data Permalink

1 / 2 NEW



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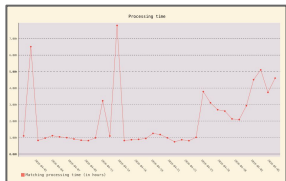
2 / 2



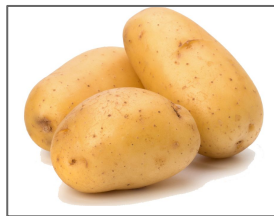


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1. Category 1 (2) **NEW**
2. Category 2 (1 sub-family) **IMPORTANT**



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1. **Real serious graph** **NEW**
2. Another important graph, again

← Example of title ;)

Example of subtitle

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1 / 2 **NEW**



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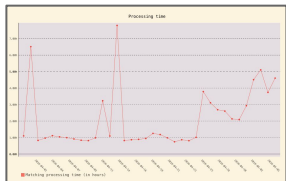
[View full screen](#) [Export graph](#) [Get raw data](#) [Permalink](#)

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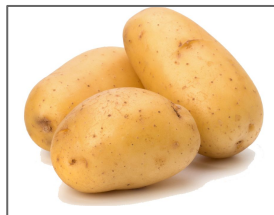


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1. Category 1 (2) NEW
2. Category 2 (1 sub-family) IMPORTANT



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1. Real serious graph NEW
2. Another important graph, again

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1 / 2 NEW



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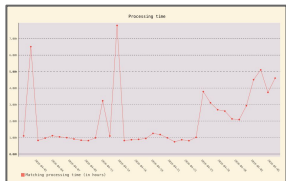
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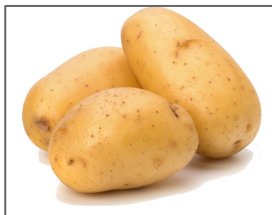


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1. Category 1 (2) NEW
2. Category 2 (1 sub-family) IMPORTANT



← Example of title ;)

Example of subtitle

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1 / 2 NEW



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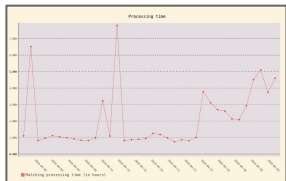
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Example of title ;)

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Free text and #keywords

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1. **Real serious graph** **NEW**
2. Another important graph, again

← Example of title ;)

Example of subtitle

View full screen Export graph **Get raw data** Permalink

1 / 2 **NEW**



**title**

This is the *overall* data.

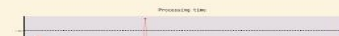
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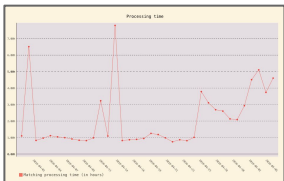
View full screen Export graph **Get raw data** Permalink

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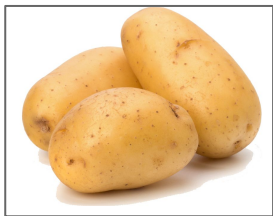


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```

Home

- Category 1

- Real serious graph **NEW**
- Another important graph, again

**Example of title ;)**  
Example of subtitle

Free text and #keywords

search clear

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- Category 1 (2) **NEW**
- Category 2 (1 sub-junior) **IMPORTANT**



**Example of title ;)**  
Example of subtitle

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1 / 2 **NEW**

**title**

This is the overall data.

\$ some code

```
i = 0
def f():
    return 2
```

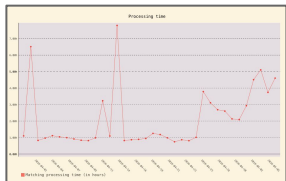
Tags: **#new** #keyword

View full screen Export graph Get raw data Permalink

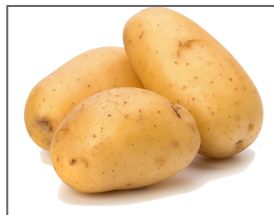
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default\_graph\_dir/ → http://0.0.0.0:5555/

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Home

- Category 1

- Real serious graph NEW
- Another important graph, again

Example of title ;)

Example of subtitle

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- Category 1 (2) NEW
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← Example of title ;)

Example of subtitle

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This is the *overall* data.

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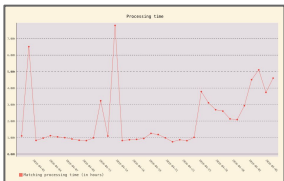
Tags: #new #keyword

[View full screen](#) [Export graph](#) [Get raw data](#) [Permalink](#)

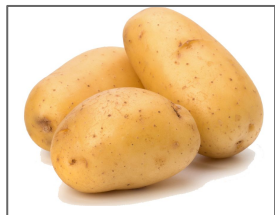
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default\_graph\_dir/ → http://0.0.0.0:5555/

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← Example of title ;)

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title

This is the overall data.

\$ some code

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i = 0
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Tags: #new #keyword

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Site layout/structure can be modified



# Webapp Configuration

docs/graphdash.yamll

```
root: ../default_graph_dir
title: "Example of title ;)"
subtitle: "Example of subtitle"
placeholder: "Free text and #keywords"
logfile: application.log
showfamilynumbers : true
showgraphnumbers: true
theme: light
keep: 0.20
raw: false
verbose: false
debug: false
port: 5555
footer : |
```

-----  
The footer  
-----  
  
. . .

## Example of title ;)

Example of subtitle

Free text and #keywords

search

clear

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1. Category 1 (2) NEW
2. Category 2 (1 sub-family) IMPORTANT

### The footer

Note that this is interpreted as *markdown*.

```
def so_cool():
    """And nicely formatted!
    """
    if True:
        return "yes !"
```

Since you are reading this, you might as well enjoy this little code snippet ;)

```
@contextmanager
def chdir(dirname=None):
    curdir = os.getcwd()
    try:
        if dirname is not None:
            os.chdir(dirname)
        yield
    finally:
        os.chdir(curdir)
```

```
with chdir('/home'):
    do_stuff()
```

Unicode is supported too ;)

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1. Real serious graph NEW
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## ← Example of title ;)

Example of subtitle

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1 / 2 NEW



### title

This is the *overall* data.

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Tags: #new #keyword

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Next step: create function to upload graphs/metadata/code to GraphDash from notebook