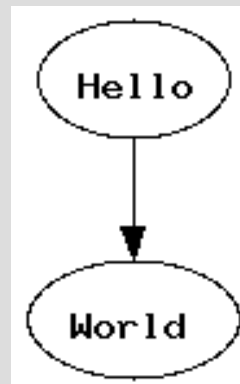


Gvglue.py

Generating cool graphviz dot files

What is Graphviz ?

- Represents structured informations as diagrams
- Easy to use and script
- “digraph G { Hello->World }” will produce :



Why Gvglue.py ?

- Simple API to generate dot files
- Not a libgraphviz frontend
- No need to learn more than 3 functions to do anything you need from graphviz
- KISS spirit, because a graph does not need more than : “This is linked with that”
- Graphviz provides a set of programs that can read dot files and produces nice graphs

Why not using pydot or other frontend ?

- You need to learn both the frontend and graphviz
- Because.. well I couldn't put a node in a cluster belonging to an other cluster
- You face bugs that are not related to graphviz
- Not that easy to use

Simple example

```
#!/usr/bin/env python

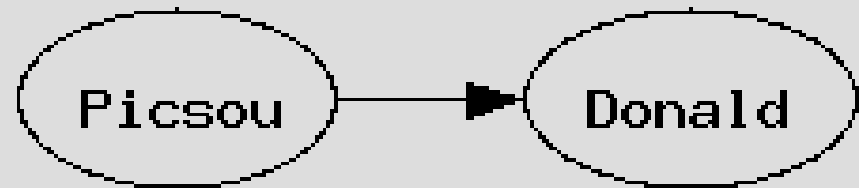
from gvglue import *

if __name__ == "__main__":
    gvg = GvGlue()

    radin = gvg.newItem("Picsou")
    maladroit = gvg.newItem("Donald")

    gvg.newLink(radin, maladroit)

    gvg.finish()
```



Graphs are for viewing

```
#!/usr/bin/env python

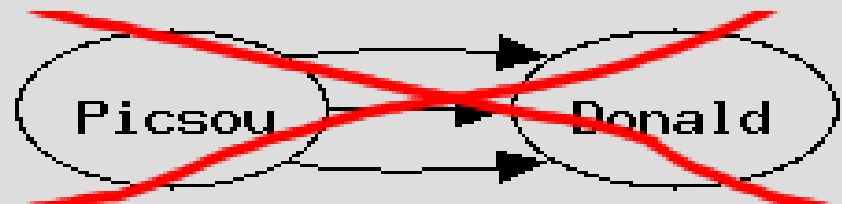
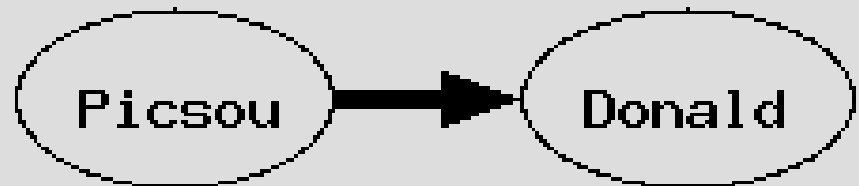
from gvglue import *

if __name__ == "__main__":
    gvg = GvGlue()

    radin = gvg.newItem("Picsou")
    maladroit = gvg.newItem("Donald")

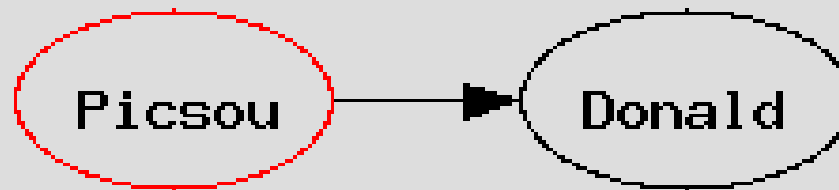
    gvg.newLink(radin, maladroit)
    gvg.newLink(radin, maladroit)
    gvg.newLink(radin, maladroit)

    gvg.finish()
```



Adding a property

```
property_add(radin, "color", "red")
```



- All graphviz properties can be used here :
<http://www.graphviz.org/doc/info/attrs.html>

Defining styles

```
gvg = GvGlue()
```

```
radin = gvg.newItem("Picsou")
```

```
maladroit = gvg.newItem("Donald")
```

```
gvg.newLink(radin, maladroit)
```

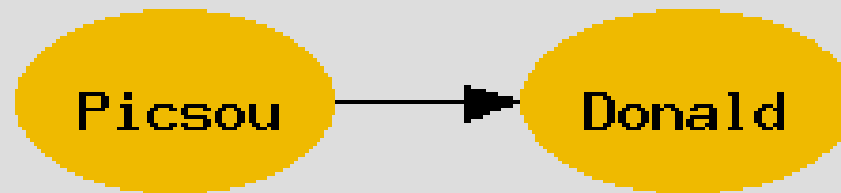
```
gvg.properties_style_add("duck", "color", "#efba00")
```

```
gvg.properties_style_add("duck", "style", "filled")
```

```
gvg.properties_style_apply("duck", maladroit)
```

```
gvg.properties_style_apply("duck", radin)
```

```
gvg.finish()
```



Apply styles anywhere

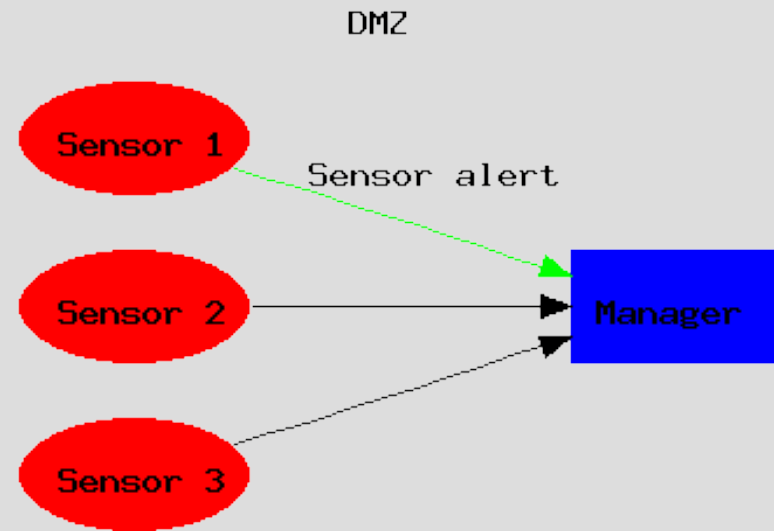
```
gvg.properties_style_add("sensor", "shape", "ellipse")  
gvg.properties_style_add("sensor", "style", "filled")  
gvg.properties_style_add("sensor", "color", "red")
```

```
gvg.properties_style_add("manager", "shape",  
"rectangle")  
gvg.properties_style_add("manager", "style", "filled")  
gvg.properties_style_add("manager", "color", "blue")
```

```
dmz = gvg.newItem("DMZ")  
s1 = gvg.newItem("Sensor 1", dmz)  
gvg.properties_style_apply("sensor", s1)  
s2 = gvg.newItem("Sensor 2", dmz)  
gvg.properties_style_apply("sensor", s2)  
s3 = gvg.newItem("Sensor 3", dmz)  
gvg.properties_style_apply("sensor", s3)
```

```
m1 = gvg.newItem("Manager", dmz)  
gvg.properties_style_apply("manager", m1)
```

```
l1 = gvg.newLink(s1, m1, "Sensor alert")  
gvg.property_add(l1, "color", "green")  
gvg.newLink(s2, m1)  
gvg.newLink(s3, m1)
```



Get it!

<http://www.wallinfire.net/files/gvglue.py>