

PieSpy (v0.1)

1. Description

Creates social networking diagrams based on irc activity.

PieSpy is an IRC bot that monitors a set of IRC channels. It uses a simple set of heuristics to infer relationships between pairs of users. These inferences allow PieSpy to build a mathematical model of a social network for any channel. These social networks can be drawn and used to create animations of evolving social networks.

Note:

This is a slightly modified version of the PieSpy bot by Jibbler.

2. Configuration

The configuration file for this plugin is **system/PieSpy/PieSpyConfig.xml**

2.1. image

Defines parameters specific to the social network chart image file, such as dimensions, colors, directory, etc.

- **width** - width, in pixels, that you want the chart to be
- **height** - height, in pixels, that you want the chart to be
- **directory** - local directory to store the images
- **createCurrent** - Create a channel-current.png file
- **createArchive** - Create an archive image file
- **createRestorePoints** - Serialize the graph object for later retrieval when bot is restarted. Otherwise all data is lost between bot instances.
- **color** - Define colors of the various chart elements.

```
<image>
  <width>800</width>
  <height>600</height>
  <directory>/tmp/</directory>
  <createCurrent>true</createCurrent>
  <createArchive>true</createArchive>
  <createRestorePoints>>false</createRestorePoints>
  <color>
    <background>#ffffff</background>
    <channel>#eeeeff</channel>
    <label>#000000</label>
    <title>#9999cc</title>
    <node>#ffff00</node>
    <edge>#6666ff</edge>
    <border>#666666</border>
  </color>
</image>
```

2.2. ignoreSet

A list of nicks to ignore when generating the graphs, e.g. the bot itself and/or other bots in the channels.

```
<ignoreSet>
  <ignore>PieSpy</ignore>
  <ignore>rizbot</ignore>
  <ignore>zibrot</ignore>
</ignoreSet>
```

2.3. advanced

The settings in the advanced section of the configuration should not be edited unless you really know what you're doing. I don't know even know what they can affect.

```
<advanced>
  <temporalDecayAmount>0.02</temporalDecayAmount>
  <springEmbedderIterations>1000</springEmbedderIterations>
  <k>2</k>
  <c>0.01</c>
  <maxRepulsiveForceDistance>6</maxRepulsiveForceDistance>
  <maxNodeMovement>0.5</maxNodeMovement>
  <minDiagramSize>10</minDiagramSize>
  <borderSize>50</borderSize>
  <nodeRadius>5</nodeRadius>
  <edgeThreshold>0</edgeThreshold>
  <showEdges>true</showEdges>
</advanced>
```

3. Commands

3.1. ignore

Command: ignore

Description: Tells the bot to ignore a nick and remove it from future graphs.

Auth Level: trusted

Where to give command: private message

Example(s):

- ignore rizzo

3.2. remove

Alias for **ignore**.

3.3. draw

Command: draw

Description: Tells the bot to immediately create a graph image file and send it to you via DCC.

Auth Level: trusted

Where to give command: private message

Example(s):

- draw

4. Change History

v0.1	First Version by Don "rizzo" Seiler
------	---