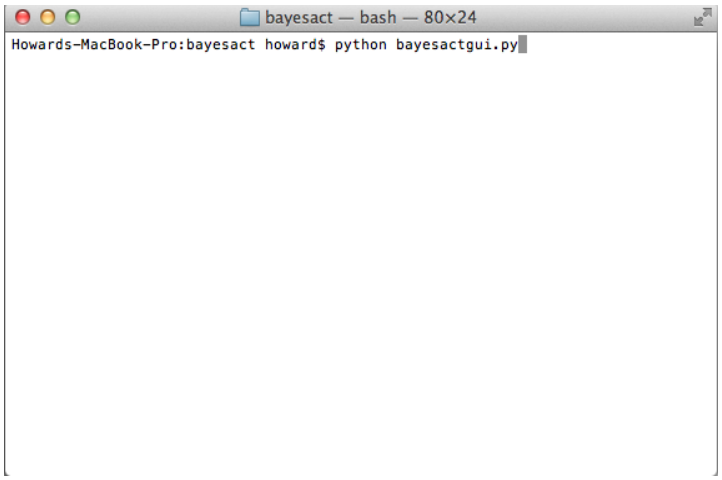
Bayesact Help Guide

Requirements:

- Requires Python 2.7
- Requires wxPython3.0, matplotlib, and wxmpl2.0 installed

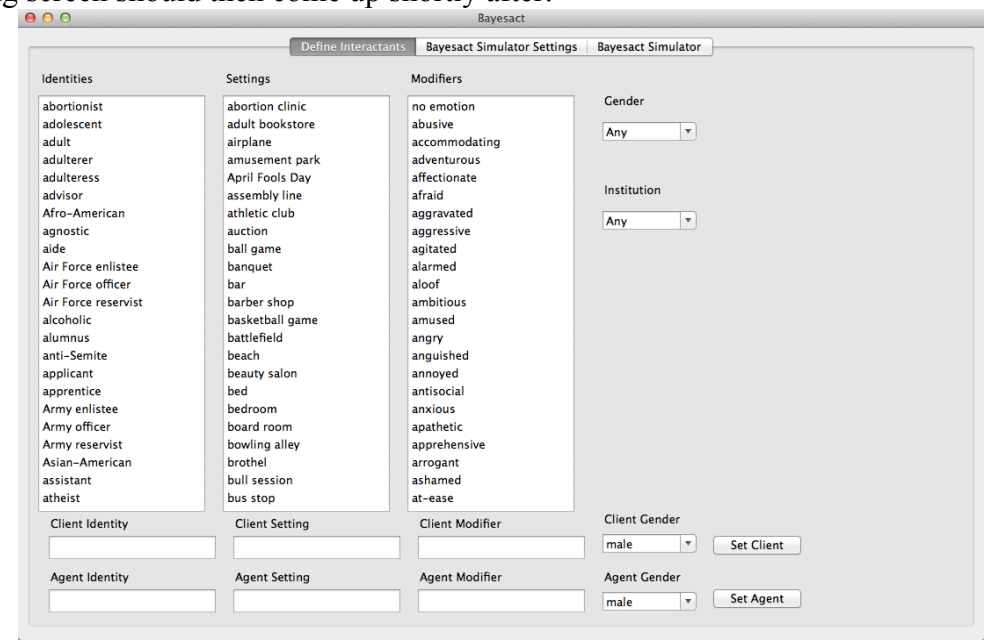
To run bayesact, type in

python bayesactgui.py



on the terminal and press enter

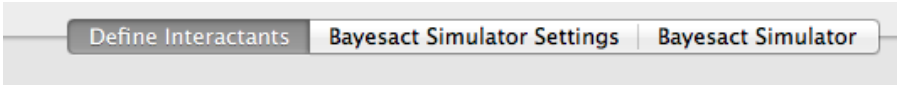
The following screen should then come up shortly after:



This is the Graphical User Interface (GUI) for Bayesact.

There are tabs located on the top of the window which are:

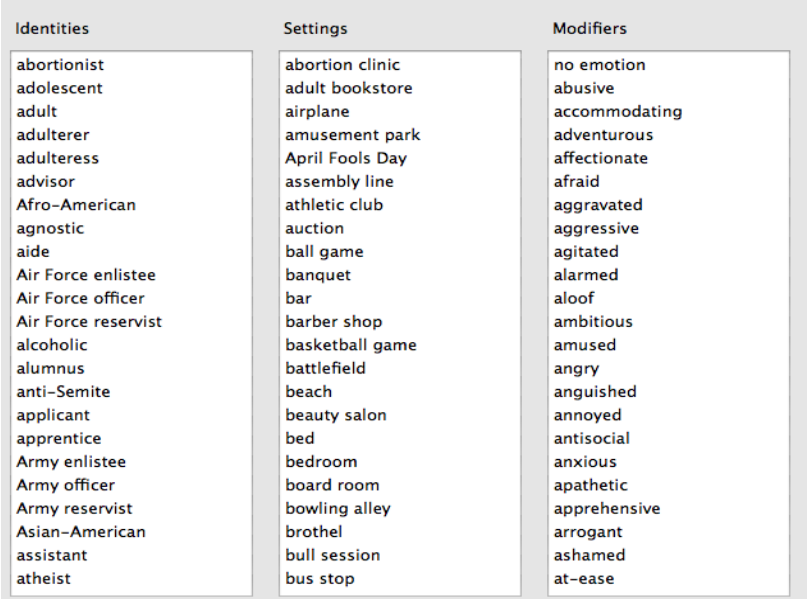
- Define Interactants
- Bayesact Simulator Settings
- Bayesact Simulator



You may left click on them to switch between the tabs.

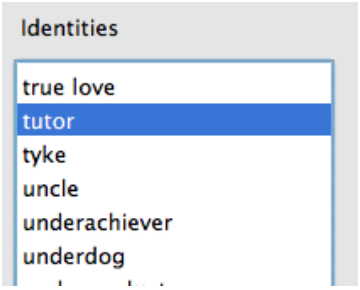
We will start off with “Define Interactants”, this is where you define the two interactants for bayesact.

We have a client and an agent. We choose the identities by selecting an identity from the list below.

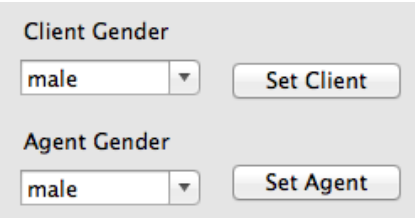


Currently, the settings and modifiers are not supported, but have been left in there for possible future development.

We will start with selecting an identity, here we will select the identity, tutor, as the agent by scrolling down the list and left clicking on it.

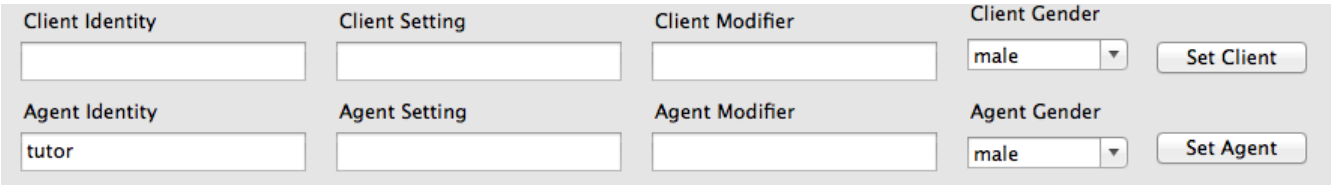


We will then set this identity by clicking on the set agent button.



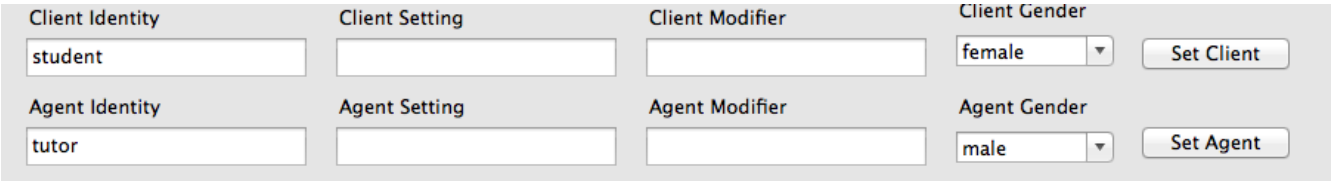
Note here that you may also change the gender of the agent/client by selecting the gender next to the button.

Now that you set the agent as the tutor, it should look like the following:



The above picture describes the agent as a male tutor.

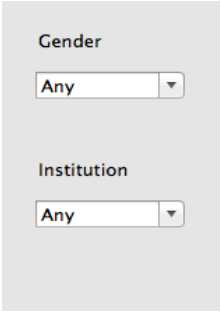
For variety, we will then set the client as a female student by repeating the steps above.
It should look like the following:



Extra features of the program allows you to switch sentiment identity data for different groups by clicking on the file menu. But please only do this if you know what you are doing.

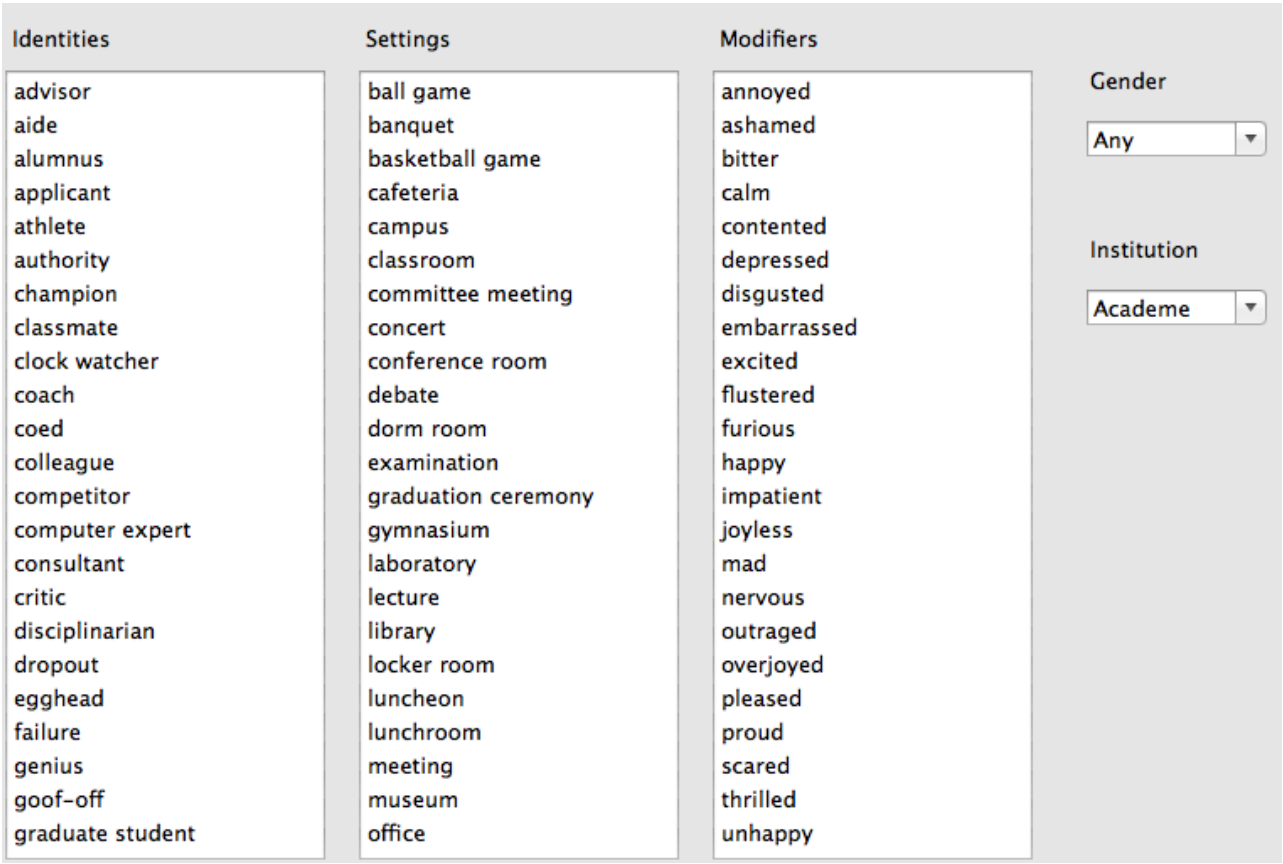
The data have a specific format and loading an incompatible data file will prevent you from starting the simulation until you either reset the program, or selecting an appropriate compatible data set.

Another extra feature allows you to filter the identities by choosing specific institution using the drop down boxes as shown here:



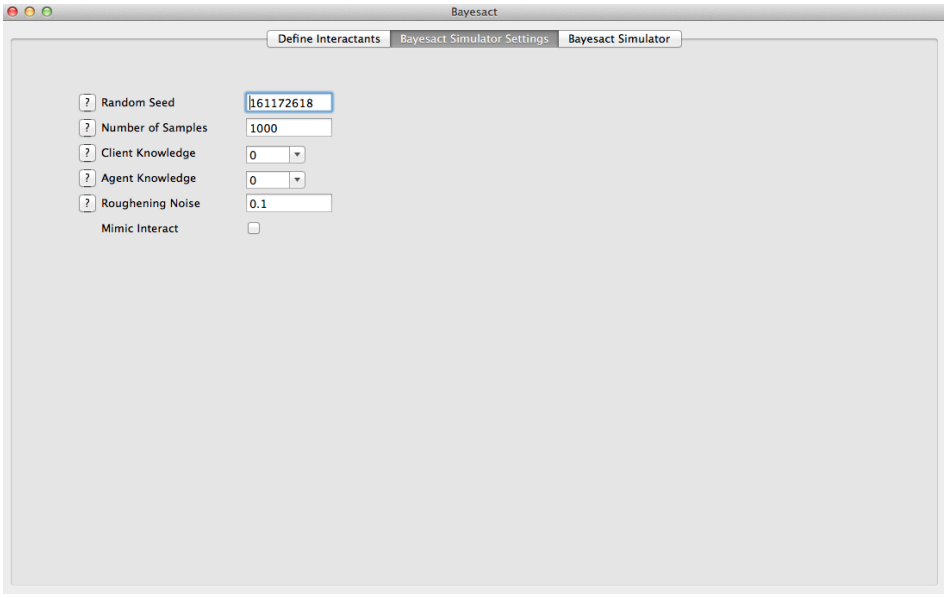
You may choose a different gender or select an institution to filter out different identities.

For example, setting the institution as academe should produce the following data for the identities.



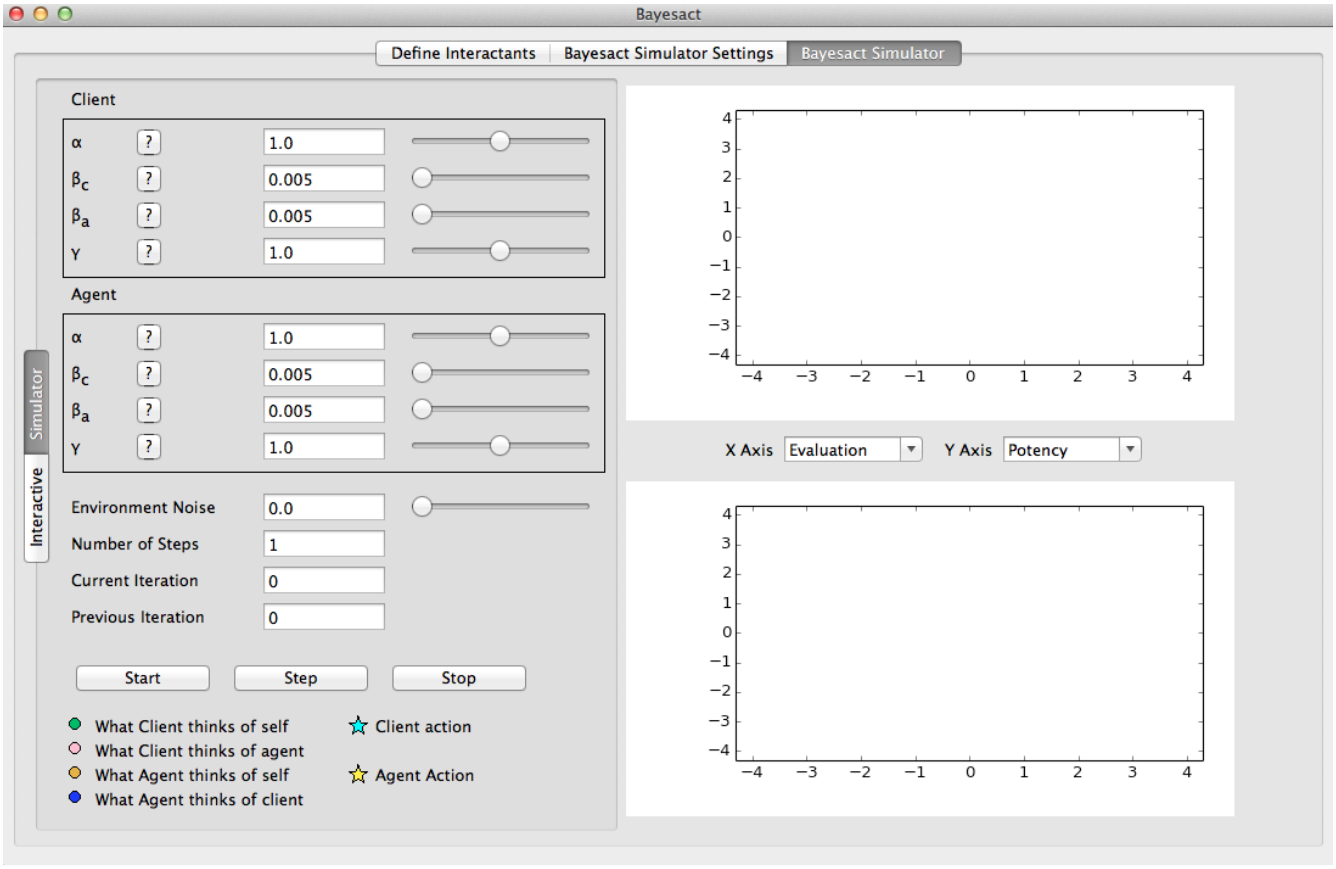
Now we will move over to the Bayesact Simulator Settings.

Left click on the top of tab “Bayesact Simulator Settings” and you should see the following:



You may adjust the initial parameters here, click on the ? buttons to read a description of with each setting does.

Next up will be Bayesact Simulator, left click on the tab to switch over to the tab, then you should see the following:

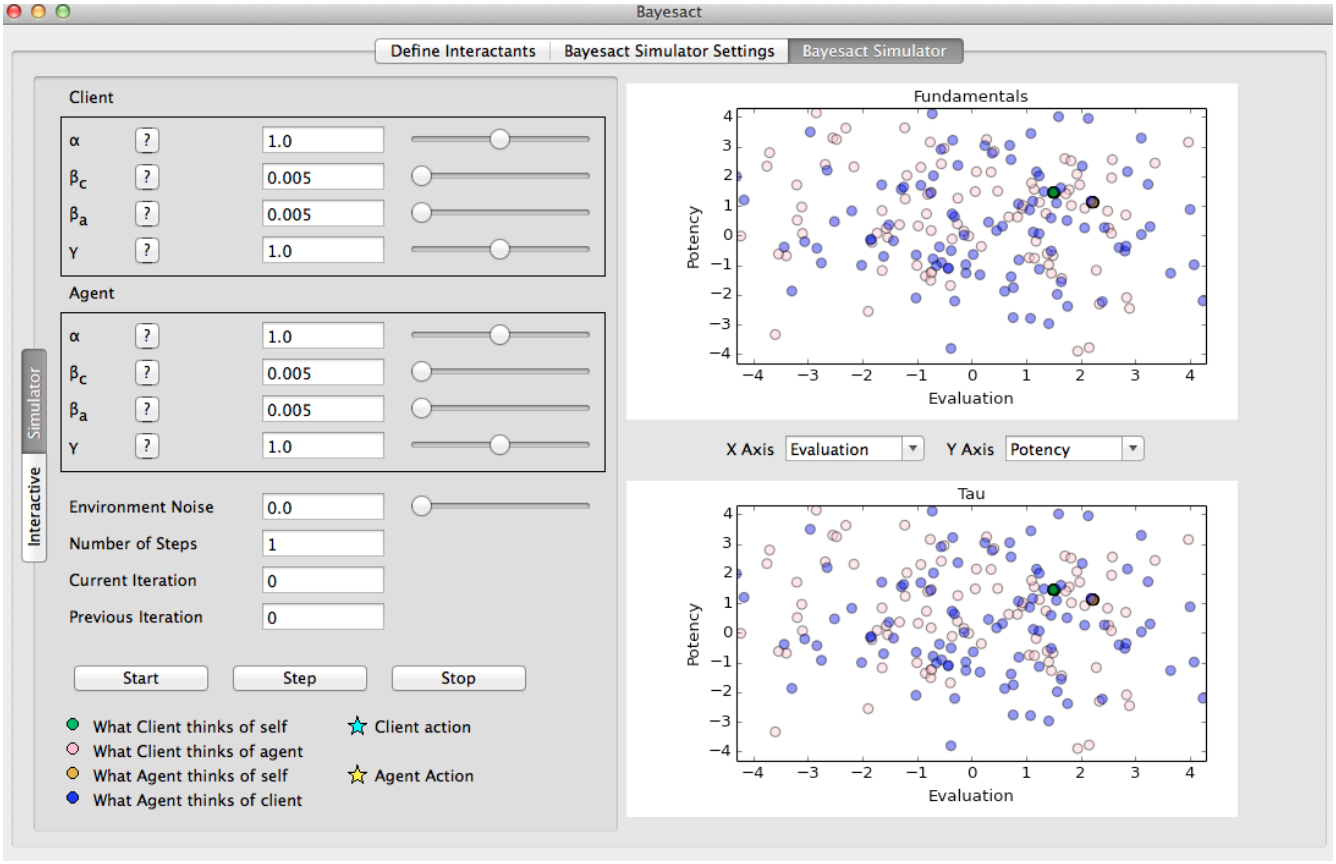


Please note that this is a two part simulation, you may choose to simulate the interaction or to actually determine what actions the agent or client should do.

You may adjust the settings on the side bar here:

To start the simulation, press either the start of step button. Please note that pressing the step button will start the simulation and also simulate one step of the simulation.

Here we pressed the start button:



Your screen may not look like this depending on the seed, but if you set the seed as seen earlier in this document, and have the exact same settings including the agent and client, with the same data files, your screen should look like the above.

In this document, we are using the same settings as the April 26, 2014 commit of Bayesact.

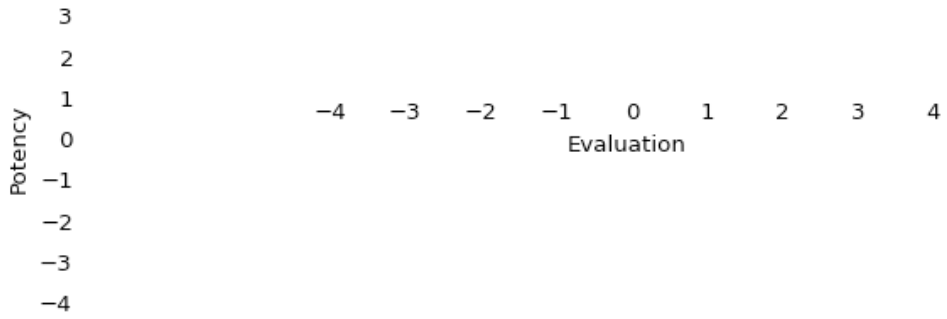
You may press the step button to advance a step(s) the simulation, adjust the number of steps, or any of the settings you see on the screen.

Press the stop button to stop the simulation and clear the plots, or press the start button again to reset the simulation.

You may adjust the x and y-axis of the plots by choosing from the drop down menu here:

You may pan the plot by right clicking the plot and dragging it. If it does not work, please consult the m_MousePanButton variable in cConstants.py

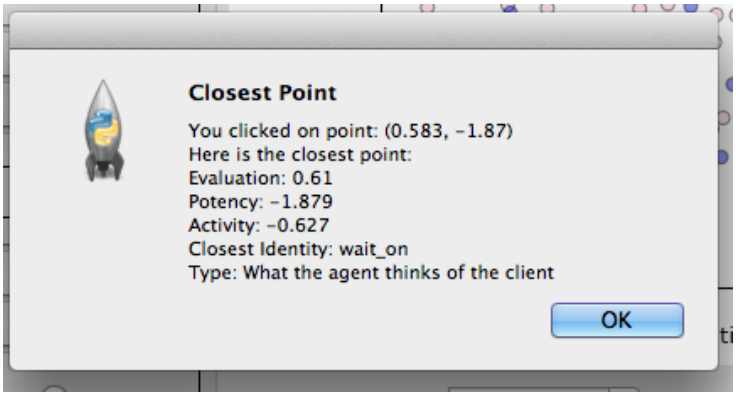
To zoom in or out, press alt+= or alt+- respectively. If it does not work LEFT click a little outside of the plot such as on the axis labels here:



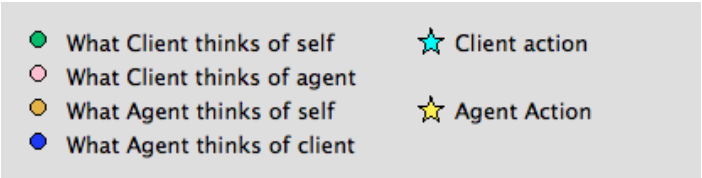
You may also pan left and right with alt+q and alt+w
Up and Down with alt+a and alt+s

These settings may be changed in cConstants.py

Left click a sample/point on the plot to get the closest point, and estimate the identity of the sample and provide information. This will not take into account of the star points, which are the agent/client actions.

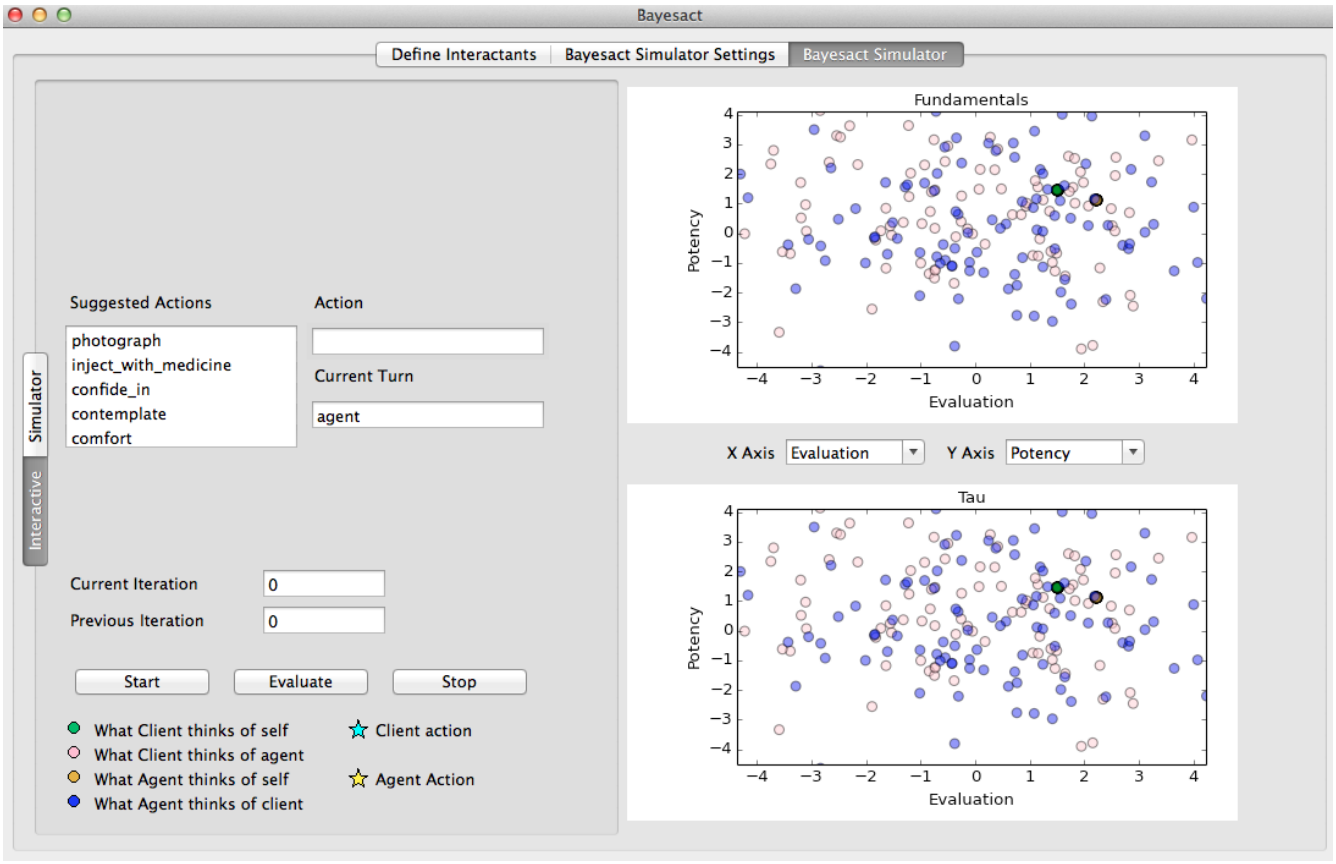


The legend for the plot is shown here on the bottom left of the window:



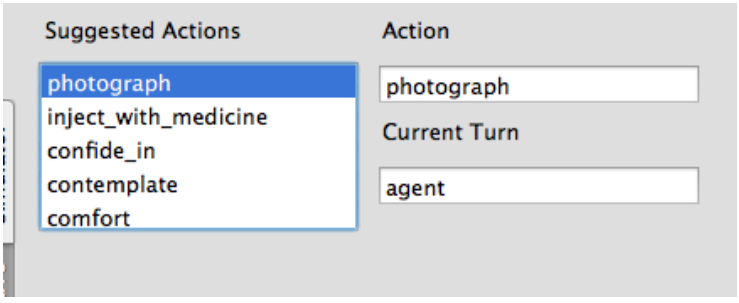
Now we will go over the bayesact interactive.

Left click on the “Bayesact Interactive” tab on the left side and you should see the following window.

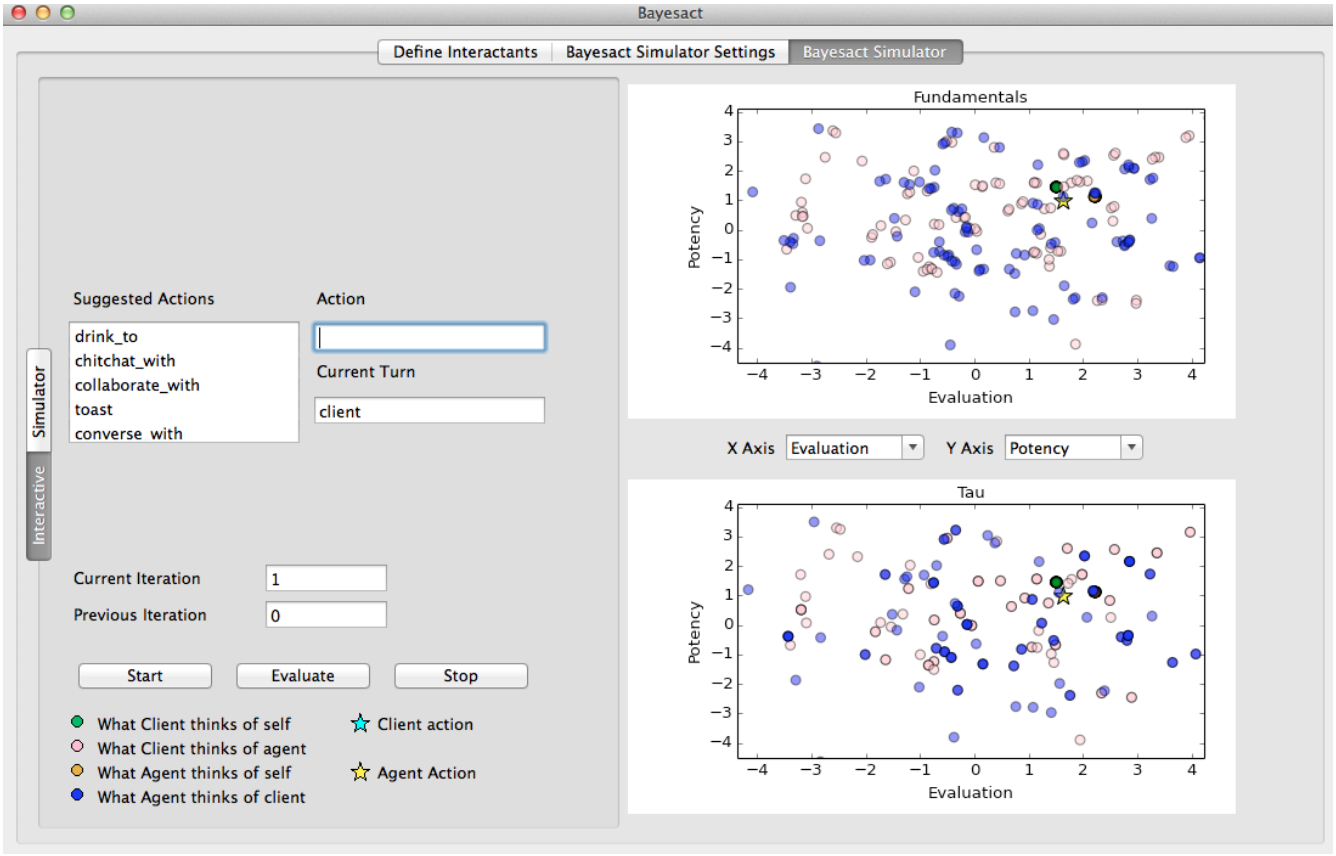


You may select actions to for the agent/client to (symbolically) do to the other agent.

Left click an action and press the evaluate button to send the action.



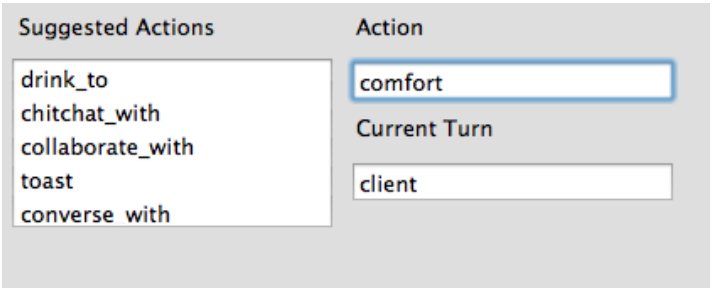
Here, it is the agent's turn and we have selected the action to “photograph” the client.
And we may evaluate the interaction:



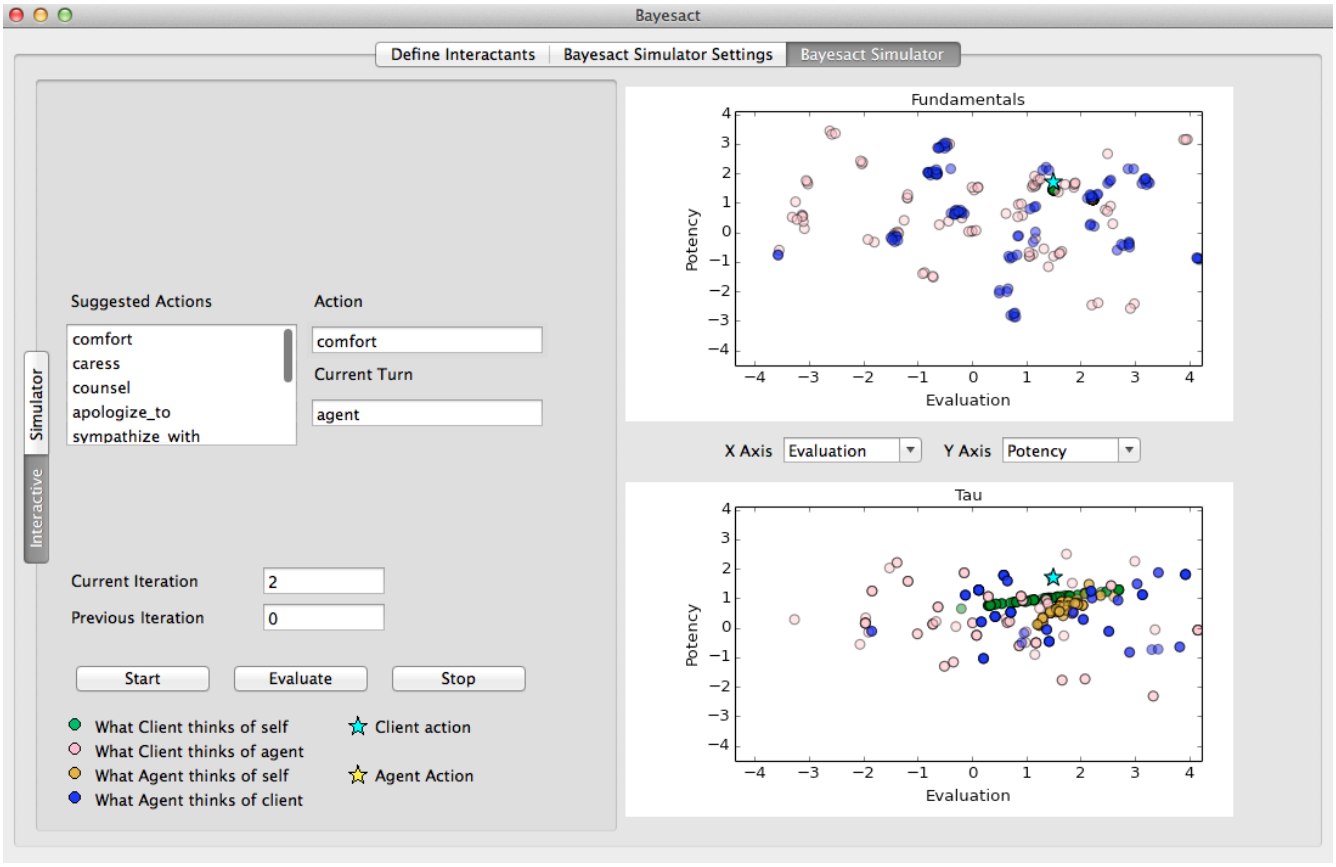
The yellow star indicates the EPA value of "photograph"

You may also type in your own action which is limited to the actions set out by the fbehaviours data file.

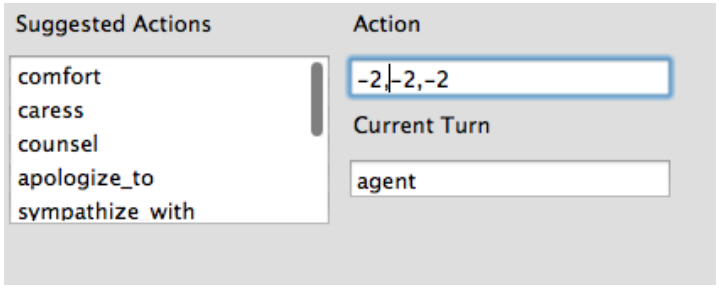
For example we may type in "comfort" even though it is not on the current list of suggested actions.



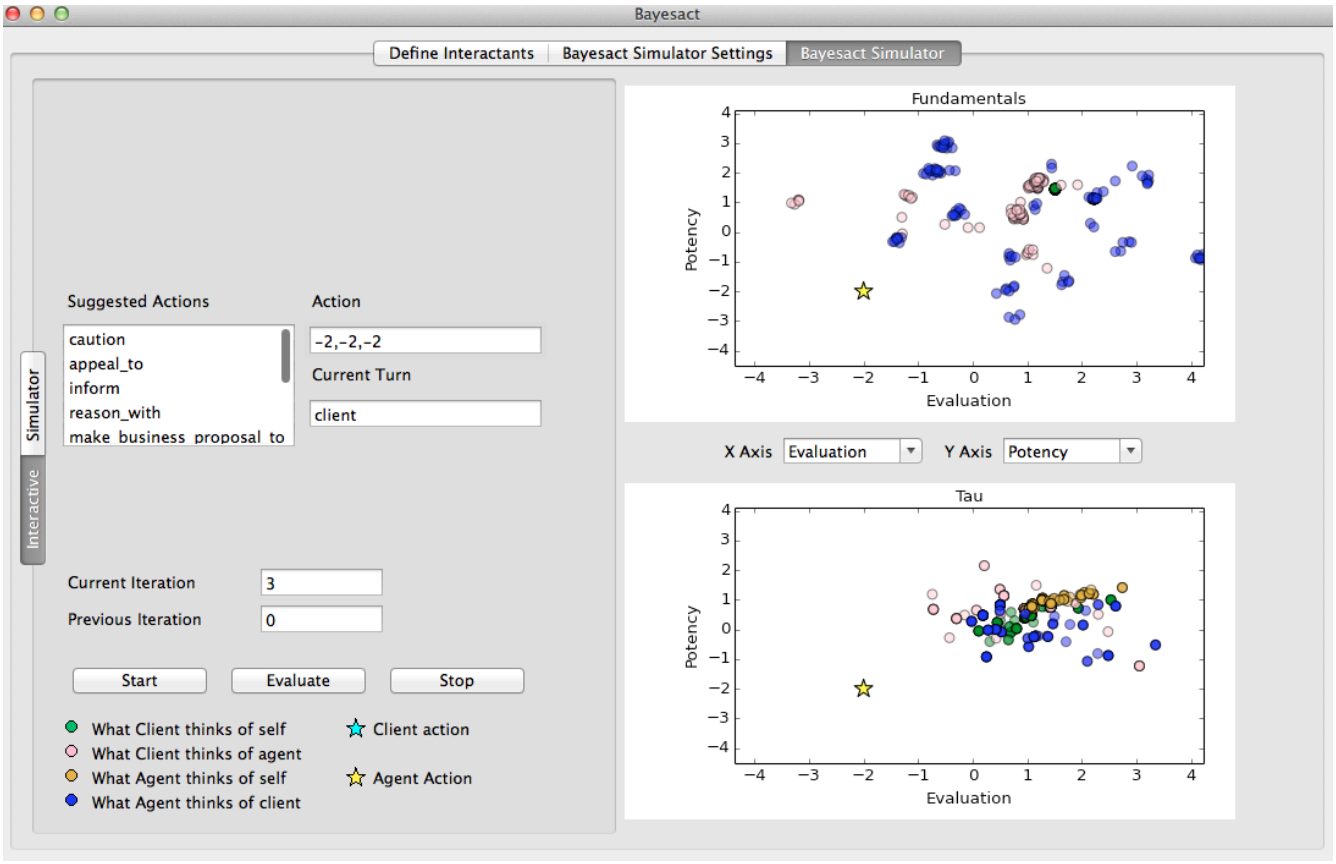
And we will evaluate the action and see the following screen.



We may also type in our own action on in terms of E, P, and A values by inputting it as a comma separated list of values in the action text box as shown here:



Pressing evaluate should generate the following screen, once again, this will only look “exactly” like this if you followed the exact same steps with the exact same steps and random seed.



This concludes the help/tutorial on of the bayesactgui