Notes and links

May 2nd, 2 h.

a short bio of Pietro Terna
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A look to the program, from the Cmap
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My book.http://www.palgrave.com/it/book/9781137339805
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Epstein, J.M. (2014), Agent_Zero: Toward Neurocognitive Foundations for Generative Social Science: see the Cmap/Readings
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The importance of our Cmap
Leibniz's dream
Leibniz (xi. De scientia universali seu calculo philosophico): quando orientur controversiae, non magis disputatione opus erit inter duos philosophos, quam inter duos computistas. Sufficiet enim calamos in manus sumere sedereque ad abbacos et sibi mutuo () dicere, calculemus.
Calculemus = Simulemus
Artifacts in social science
_
A short paper on models, Simon and complexity, by Pietro Terna.
From the Cmap look at
Terna p. 4, three types of models
From the Cman look at

Axtell and Epstein p. 6, the Axtell and Epstein's definition of ABMs
_
Agent-based models and programming .
_
starting NetLogo
_
students' cues and projects
May 8 th , 3 h.
students' cues and projects
A first look to NetLogo
Using NetLogo Starter
The content of the NetLogo box in the Cmap
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The Go button 'forever' (using also reset-ticks, tick and ticks)
The box <i>Programming examples</i> of the Cmap
look at 1, 2, 3 cases
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complexity in the Cmap
_
students' cues and projects

May 9th, 2 h.

students' cues and projects

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turtles going around and changing their color il they found closely another turtle of a different color (both change to a third color)

look at 4, 4plot cases

chameleons http://terna.to.it/chameleons/chameleons.html

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breeds.nlogo

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students' cues and projects

May 15th, 3 h.

students' cues and projects

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Exploring the stock market with



CDA_basic_model.nlogo

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Trend agents in CDA

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Scratch, StarLogo TNG

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Network analysis
NetLogo and the NW extension.
Preliminary steps with the NW library following:
a) ourFirst_NW_Example.nlogo
b) the Usage section in https://github.com/NetLogo/NW-Extension with:
- nw:context (our file contexts.logo)
- Special agentsets vs. normal agentsets (look at ourFirst_NW_Example+SIZE.nlogo)
c) from https://github.com/NetLogo/NW-Extension/tree/5.x/demo (within branch 5.x) look at the Network Extension General Demo with the info sheet and to its weblinks
reported also in our repository
d) an emerging network: productionWorld.nlogo
In NetLogo box
BehaviorSpace eXtraWidgets
-
Genetic Algorithms and NetLogo in the specific box we have the link to http://www.behaviorsearch.org/index.html where, under Download, we read: "ALERT: BehaviorSearch currently only works with Netlogo 5.2.x and earlier. We are working on a new version of BehaviorSearch that will work with Netlogo 5.3.x and above"

but, within the NetLogo 6.0 folder, we have the "Behaviorsearch 6.0.app" for Mac (or proper executables for the other operating systems) and

a folder of examples

a folder of documentation (with a tutorial)

let's see the Example_Flocking_Convergence.bsearch example (via File / Open Example) we are using models/Sample Models/Biology/Flocking.nlogo

what if we want to evolve a specifica agent, not a model?

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a digression

 ${\tt SLAPP~$\underline{https://github.com/terna/SLAPP}$ (with Python) + Oligopoly model $\underline{https://github.com/terna/oligopoly}$$

Python / IPython / Jupyter / JupyterLab with https://tmp59.tmpnb.org

(and https://juliabox.com)

students' cues and projects