

Notes and links

January 11th

What means economy/economics and what these words mean for you.

Home-work (please send your homework to pietro.terna@unito.it)

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A close look to the program:

http://fisica-sc.campusnet.unito.it/do/corsi.pl/Show?id=gwpc;sort=DEFAULT;search=;hits=59#a_programma_gwpc

My book.

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

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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.¹

Calculemus = Simulemus

Artifacts in social science

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A short paper on models, Simon and complexity, by Pietro Terna.

From the Cmap look at

Terna p. 4, three types of models

Axtell and Epstein p. 6, the **Axtell and Epstein's definition of ABMs**

January 16th, 17th, and 18th

homework

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Agent-based models and programming.

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Cmap novelties

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A first look to NetLogo

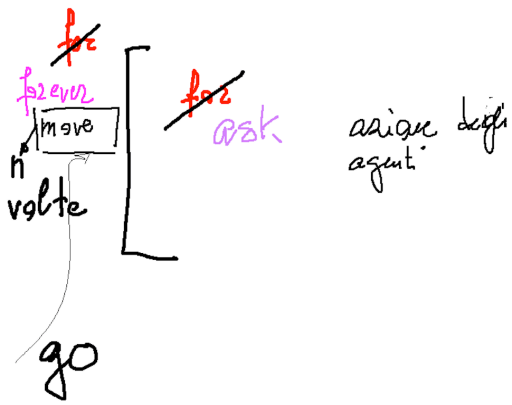
Using NetLogo Starter

The content of the **NetLogo box in the Cmap**

for ? in []:

ask turtles [.....]

20180117a.nlogo, 20180117b.nlogo

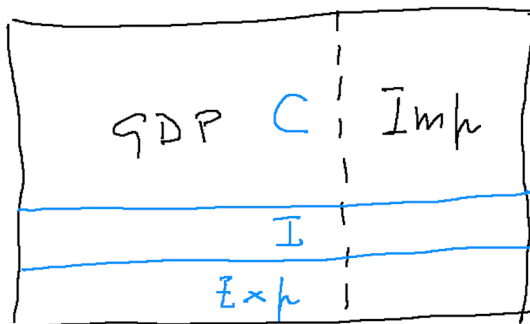


The Go button 'forever' (using also reset-ticks, risk and ticks)

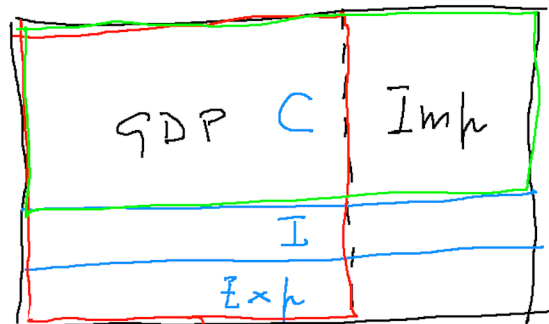
Using the box *Programming examples* of the Cmap

A rectangular pie.

GDP Italia 20



GDP Italia 2016



GDP ≈ Reddito nazionale

1.1.2016 → 31.12.2016

1.1.2016 → 31.12.2016

$\text{Risp} = \text{GDP} - C$

$\text{GDP} \gg C$

Ancora contabilità nazionale

$\text{GDP} + \text{Imp} = C + I + \text{Exp}$

$\text{GDP} - C = I + (\text{Exp} - \text{Imp})$

		Risparmio	
ITA	>0	>0	≈0
CINA	>>0	>>0	>>0

National accounting, look at the online primer (from the program, at https://www.bea.gov/national/pdf/nipa_primer.pdf, figure at p.3 and table at p. 4)

<http://hdr.undp.org/en/content/human-development-index-hdi>

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A first look to Python (3)

The content of the **Python box in the Cmap**

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familiarize with Python live in the IDLE shell or creating a .py file or via IPython and IPython notebook

squib & quirks

Alibaba and Microsoft AI beat humans in Stanford reading test
to read it, google the title

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<https://github.com/Zeta36/chess-alpha-zero>