## Comparison of Neural Network Simulators

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Simulator	Publications	Release history	License	Platforms	Community	Language	Focus	Coding Style	Virtual environment	Backpropagation	Self Organizing	Constraint Satisfaction	Supported Neurons	Parallel Computing	PyNN (http://www.neuralensemble.org /trac/PyNN)
emergent Neural Network Simulation System (http://grey.colorado.edu/emergent /index.php/Nain, Page 6.3.2  De Randy OReid) vignity-hysteckordado.edu/iv Tkornity/  De Randy OReid) vignity-hysteckordado.edu/iv Tkornity/  edit this simulatior (http://grey.colorado.edu/emergent/index.php/Special/FormEdit /AdSimulatior/compress/	AisaMingsuOReilly07 (http://gryc.colorade.colu/mcdiawiki/sites //mccgcoff/mages //abb/AisaMingsuOReilly07.pdf)		GNU GPL	Windows OS X Linux Unix	Mailing List (http://grey.colorado.cdu /cgi-bin/mailmanfistinfu/emergent- users)	C++	Networks	Visual Scripts C++	Rigid body physics 3D graphics 3D model file import Full robotics support	Cross-entropy Feedforward (SRN) Recurrent Almeida Pineda Real-time continuous	Competitive Learning (hard/soft) Hebbian (soft/hard/ZSH Kohonen)	Boltzmann Binary/continuous Hopfield Interactive Activation and Competition GRAIN	Point Biological	MPI GPU	No No
XNBC (http://www.b3e_jussicu.fr/xnbc/) 9.11  Dr. Jean Françis VIBERT (http://www.bc.jussicu.fr/xibert/)  Françis VIBERT (http://www.bc.jussicu.fr/xibert/)  edit this simulator (http://grz.colorslo.colu.emr.grafinfee.php/Special-FormEdit //A/d/simulator/XNEC/)	VibertAxmy92 (http://grey.colorado.edu /emergentindex.php/VibertAxmy92) VibertEAN97 (http://grey.colecado.edu /emergentindex.php/VibertEAN91) VibertEAN9 (http://grey.colecado.edu /emergentindex.php/VibertEAN11)	1998-2011	GNU GPL	Windows OS X Linux Unix		C++	Neurons Networks	Visual			Hebbian		Point Biological		No
Wolfram Mathematica Neurral Networks (http://www.wolfram.com/products // hpplications/neurralnetworks/) 1.1.1  Wolfram Necarch Inc.  Wolfram Necarch Inc.  **Contract True   December True  **Southware True	Unknown	2002-2005	©, Proprietary	Windows OS X Linux Unix		Mathematica	Networks	Scripts		Feedforward Radial Basis Dynamic (Recurrent)		Hopfield			No
Torch5 (http://torch5.sourceforge.net/) 0.50  Renac Calabert (http://tonca.calabert.com/) Sany Henjin (http://tonca.calabert.com/) Leon Botton (http://tonc.botton.com/) Leon Botton (http://tonc.botton.com/) edit this simulator (http://jpry.colar-slo.calaberts/graft/index.php/Special-FormEdit/A/AdSimulator/Torch5)	CollebertBengieMariéthos022 (http://pphthistiap.idage.ch/downloads /neports/2002/rt02-46.pdf)	2002-2008	GNU GPL	Windows OS X Linux Unix		c		Lua scripts							No
Topographica Neural Map Simulator (http://topographica.org/) 0.3.8  De James A. Bechar (http://tompages.infed.ac.ob/bechar/)  De James A. Bechar (http://tompages.infed.ac.ob/bechar/)  Gelit this simulator (http://grey.colorado.edu/emergent/infe-php/Special/FormEdit/Add/Simulator/Topographica_Neural_Map_Simulator/  Topographica_Neural_Map_Simulator/	BednaffiAlO4 (http://grey.colondo.edu /emergent/index.ph/flecharfiAlO4) BednaffiAlO9 (http://d.doi.org/10.3389 /neuro.11.008.2009)	1998-2012	BSD	Linux Mac OS X Windows any platform with Python	Mailing List (http://topographica.org	Python C++	Networks	Python scripts Visual C++	Blender Interface		Hebbian (soft/hard /covariance /CPCA) SOM LISSOM GCAL BCM		Point Biological	Distributed MPI	No
Theano (http://deeplearning.net/software/theano/) 0.6 Author Unknown edit this simulator (http://grey.cobrado.edu/emergent/index.php/Special-FormEdit //AdSimulator/Theano)	Unknown	2007-2013			[1] (http://groups.google.com/group /theano-users)	C Python	Networks	Script						GPU	No
Stuttgart Neural Network Simulator (http://www.ra.cs.umi-tuebingen.de/SNNS) 4.3  Dr. Andreas Zell (http://www.ra.cs.umi-tuebingen.de/SNNS) 4.3  Dr. Andreas	ZellEiAPI (http://gpty.colorado.edu /emergentindes.php/ZellEiAPI) Petros99 (http://grey.colorado.edu /emergentindes.php/Petros99)	1991-2008	Other FOSS	Windows Others from source	Mailing List (http://www.ra.cs.uni-tucbingen.de/SNNS/about-ml.html)	C++	Networks	Visual		Quickprop RPROP Backpercolation Counterpropagation	Hebbian Kohonen Delta		Point		No
SpikeNET (http://sccn.ucsd.edu/%/TEarno/spikenet/) 1.02  Arnaud Delorme (http://swwx.cnl.saik.edu/%/TEarno/) Simon Thorpe	Unknown	1000 2004	GNU GPL			C++	Networks	Configuration					Biological		No
edit this simulator (http://grey.colorado.edu/emergent/index.php/Special:FormEdit /AddSimulator/SpikeNET) SpikeFun (http://www.dimkovic.com/node/1) 0.63	Сикали	1,7,7-2,004	0.10 012			Civ	- Terrore	Files					Diological		
From Dimberise (http://www.dimberise.com/)  ###################################	Unknown	2011-2012	Other	Windows		C/C++	Networks	Configuration files					3d		No
Simbrain (http://www.simbrain.net/) 3.0 Beta 1  Jeff Yoshim  Jeff Yosh	Yoshimi08 (http://www.brains-minds- media.org/archive/1411)	2002-2012	GNU GPL	Java	Forum (http://simbrain.963258.n4.nabble.com/)	Java	Networks	Visual Scripts	Simple 2D world		Hebbian SOM Short Term Plasticity	Hopfield IAC	Point Biological		No
edit this simulator (http://grey.colorsdo.edu/enregrenfindez.php/Special/FormEdit/Add/Simulator/Senens_ECANE)	Unknown	2009-2009	©, Proprietary	Windows		Visual C++		Visual Scripts			Self-organising maps				No
Sharky Neural Network (http://www.sharkitime.com/ns_sharky.NeuralNetwork.html) 13  Shark Time Software (http://www.sharkitime.com/) No Images Provided  Shark Time Software (http://www.sharkitime.com/) No Images Provided  For Images Provided  Only Time Time Time Time Time Time Time Time	Unknown	2009-2009	©, Proprietary	Win. 2000/XP /Vista/7/8			Networks			Yes	No	No	Point		No
SNNAP (Simulator for Neural Networks and Action Potentials) (http://snnap.ath.fnnce/du/\$Li  Dr. John Byrne (http://sn.ath.co.delroomeer/deady/hemberolyyne.htm)  Dr. Douglas Baxter (http://sn.ath.mc.edu/besources/faculy/membero/haxter.htm)	Unknown	2001-2007	©, Proprietary	Java	Forum (http://smap.proboards40.com/)	Java	Neurons Networks					Hebbian	Point Biological		No

/AddSimulator/SNNAP_%28Simulator_for_Neural_Networks_and_Action_Potentials%29)  PyNeurGen (http://pyneurgen.sourceforge.net/) 3.0															
Don Smiley (http://www.grammatical-evolution.org/)  edit this simulator (http://grey.colorado.edu/emergens/index.php/Special-FormEdit //Add/Simulator/Ty/Near-Gen)	Unknown	-2012				Python	Networks	Script		Yes			Point		No
PyDSTood (http://www.ai.gsu.edu/% FErcelveley/PyDSTool/FrontPage.html) 0.88 Dr. Robert Clev ley (http://www.2.gsu.edu/% Fizmatther)	Unkaown	2004-2009	) BSD	Python	Wiki (http://www.cam.cornell.edu /%/Terclowky/cgi-bin/moin.cgi /ProntPage)	Python	Neurons	Python Scripts					Point		No
edit this simulator (http://grey.colorado.edu/emergent/index.php/Special:FormEdit //AddSimulator/PyDSTool)  Peltarion Synapse (http://www.peltarion.com/products/products.html) 1.6.0															
Pelturion    Pelturion   Peltu	Unkzown	2006-2012	©, Proprietary	Windows	Forum (http://www.peltarion.com /forums/)	NET		Visual Scripts .NET components		Quickprop Levenberg- Marquardt Recurrent	Self-organising maps Hebbian Kohonen Competitive Learning	Hopfield	Point		No
PSICS (Parallel Stochastic Ion Channel Simulator) (http://www.psics.org/) 1.0.9  Dr. Matthew Nolan (http://www.nr.ed ac.uk/ink/NNolan htm)  edit this simulator (http://grey.colorado.edu/emergen/index_php/Special-FormEdit /Add/Simulator/PSICS, %28/brailel, Stochastic, Ion, Channel, Simulator/%29)	Unkaown	2008-2010	) GNU GPL	Java		Java Fortran		Visual					Point 3d Biological		No
PDFTool (http://www.stanford.edu/group/pdplab/resources.html) 2.02  Jay McClelund (http://psych.stanford.edu/%/Tiplat/)  Jay McClelund (http://psych.stanford.edu/%/Tiplat/)  edit this simulator (http://grey.colorado.edu/emergen/indes.php/Specia/FormEdit/AdSSmultator/PDFTool)	Unknown	1986-2009	GNU GPL	Windows OS X		MATLAB	Networks	Visual MATLAB		Backpropagation Recurrent	Competitive Learning		Point		No
PCSIM (http://www.kom.tugrznzat/pcsim/) 6.5.4  Dr. Thomas Natschlager (http://www.scst.nd/RenderHTML.ags/1page=117& lang=1d&subpage=3& desia=284)  Dr. Peccesid Dejan  edit this simulator (http://grzy.coloralo.eth/emergent/index.php/Special/FormEdit/AdSlimulator/PCSIM)	BretteEtAI07 (http://grey.colorado.edu /emergent/index.php/BretteEtAI07)	2008-2009	GNU GPL	OS X Linux Unix	Mailing List (http://sourceforge.net //mailarchive //forum.php?forum_name=pcsim-users)	C++ Python	Neurons	Scripts Java		possible	STPD	possible	Point Biological	MPI	No
OpenNN (http://www.interlaics.com/openna) L0 Interlaic (http://www.interlaics.com/openna) Boherin Longez Open Neural Neiseurha Library  OpenNN  Artificial Intelligence edit this simulator (http://grey.colorado.colorum/greyfindire.php/Npecials/FormEdit Addissimulator/Charles	Documentation (http://www.intelnics.com/openna /documentation)	2003-2014	GNU LGPL	Multiplatform		C++	Networks	C++ main function		Yes	No	Yes			No
Nodus (http://www.inb.ua.ac.he/software/nodus/nodus_info.shtml) 3.2  Dr. Erik De Schutter (http://groupe.cist_jrjcune/ride-schutter)  The transfer of the schutter (http://groupe.colorada.edu/emergent/indes.php/Special-FormEditi.)  The transfer of the schutter (http://groupe.colorada.edu/emergent/indes.php/Special-FormEditi.)	DeSchutter93 (http://grzy.colorado.edu /emergens/index.php/DeSchutter93)	1983-1999	©, Proprietary			Fortran	Neurons Networks						Biological		No
Neuroph (http://neuroph.sourceforge.net/) 2.8  Zena Sevane For Goloskolovic For Tait  edit this simulator (http://grzy.colorado.edu/marr.gon/index.php/Special-FormEdit /AddSimulator/Scureph)	Unkaown	2008-2013	Other FOSS	Java	Forum (http://hourceforge.net/projects /neuroph/forums)	Java	Networks	Java		Multi Layer Perceptron with Backpropagation	Kohonen Hebbian Competitive	Hopfield	Point		No
NeuronC (http://retina.anatomy.upeam.edu/% TErob/neuronc.html) 6.44  Dr. Robert Smith (http://retina.anatomy.upeam.edu/% TErob)  dr. Robert Smith (http://retina.anatomy.upeam.edu/% Terob	Smith92 (http://grey.colorado.edu. /emerg.ent/nadex.php/Smith92)	1986-2008	s GNU GPL	OS X Linux Unix	None	C C++	Neurons Networks	Visual Scripts (interpreted) Scripts (compiled to DLL)	No	possible	possible	possible	Biological	MPI	
NeuroSolutions (http://www.neurosolutions.com/products/ne/) 6.02  NeuroDimension, Inc  NeuroD	Unknown	1995-2010	©, Proprietary	Windows Linux (w/o GUI) Unix (w/o GUI)		Visual C++	Networks	Visual C (compiled to DLL) MATLAB		Generalized Feedforward Levenberg- Marquardt	Competitive Learning Hebbian	Hopfield		GPU	No
NeuroJet (http://www.neurojet.com/) 3.0 William Levy Ben Hocking Aprotim Sanyal	Unknown	1990-2008	Other FOSS	Window OS X Linux	Wiki (http://www.neurojet.com/wiki_1/)	C C++	Neurons	MATLAB Domain- Specific Language		Excitatory Synaptic Modification	possible	possible	Biological	MPI	No

edit this simulator (http://prvy.colorada.edu/suergent/index.php/Special:FormEdit /AddSimulator/Neuraled Neural Designer (http://www.intelnics.com/neuraldesigner) 1.0															
latelinic (http://www.intelnics.com/) Roberto Lopez Inmad Santana  linead Sant	Documentation (http://www.intelnics.com/neuraldesigner/documentation) Examples (http://www.intelnics.com /neuraldesigner/examples)	2014-2014	©, Proprietary			C++	Networks	Graphical User Interface		Yes	No	No			No
NetMaker (http://www.ire.pw.cdu.pl/%Texulej/NetMaker/) 0.9.5.2  Robert Soliej  Robert Soliej  Getti this simulator (http://grzy.colorzabo.efu/emergen/index.php/Special-FormEdit /AddSimulator/NetMaker)	Unknown	2006-2008	©. Proprietary			C# C ASM	Networks	GUI		Quickprop Levenberg- Marquardt BPTT					No
Nengo (http://hengo.ca/) L L Chris Elisanish (http://hearts.metelevo.ca/s/Tketlanni/) Teny Stewart (http://www.tenystewart.ca/) Teny Stewart (http://www.tenystewart.ca/) Teny Tripp (http://hytripp.com/) Teny Tripp (http://hytripp.com/) Teny Tripp (http://hytripp.com/) Teny Tripp (http://hytripp.com/) Teny Stewart (http://grzy.colorado.edu/emrgent/index.php/Special-FormEdit /AddSimulator/Nengo.	EliasmithAnderson04 (http://www.amzoo.com/Neural- Engineerig Approxemations Neural-Representations Ado/0262550601)	2010-2012	Other FOSS	Windows Linux OSX		Java Python	Neurons Networks	GUI	No				Point Biological		No
NeMo (http://nemosim.sourceforge.net/) 0.7.2  Andreas Fidjeland edit this simulator (http://grey.colorado.edu/energent/index.php/Special-FormEdit /AddSimulator/NeMo)	Figlend, Andreas K., et al. NeMe A platform for near-modelling of spiking neurons using GPUs." Applications specific Systems, Architectures and Processor, 2009. ASAP 2009. 20th IEEE International Conference on IEEE, 2009. (https://doi.org/10.1016/j.cc.10.1016/j.cc.1	-2012		Linux Windows MacOS		C++	Networks	C++ C Python and Matlab.					Point Biological	GPU	Yes
NEURON (http://www.neuron.yale.edu/neuron/) 7.3  Dr. Michael Hine (http://www.cy.yale.edu/neuron/) 7.3  Dr. Michael Hine (http://www.cy.yale.edu/neuron/) 6.0  dit this simulator (http://grey.edurado.edu/neuron/) 6.0  dit this simulator (http://grey.edurado.edu/neuron/) 6.0  AddSimulator/NEURON)	Hines 93 (http://grey.colorado.edu /emergent/index.php/Hines 93) (http://grey.colorado.edu/emergent /index.php/HinesCarnevale97) HinesExA00 (http://grey.colorado.edu /emergent/index.php/HinesEtA00)	1986-2013	GNU GPL	Windows OS X Linux Unix	Forum (http://www.neuron.yale.edu /phpBB/)	C C++ Fortran	Neurons Networks	Visual Scripts (interpreted) Scripts (compiled to DLL)	No	possible	possible	possible	Point 3d Biological	MPI	Yes
NEST (NEural Simulation Tool) (http://www.nest-initiative.org/) 2.2.2  NIST Initiative (http://www.nest-initiative.org/)  NIST INITIATIVE (http://www.nest-init	DieumaniELA95 (http://grey.coloralo.edu/emergent index.php/DieumaniELA95) DieumaniGewiltigt0 (http://grey.colora.edu/emergent index.php/DieumaniGewiltigt0 (grewiligiELAQ UE)/pfg/grey.coloralo.du/emergent index.php/DieumaniGewiltigt0 (grewiligiELAQ UE)/pfg/grey.coloralo.du/emergent/index.php.GewaligiELA02)		GNU GPL	OS X Linux Unix	Mailing List (http://www.nest- initiative.org/index.php /Software.Mailinglists)	C++ Python	Neurons Networks	Python Scripts SLI Interpreter			STDP other plastic symapses		Point 3d Biological	Distributed MPI	Yes
Mvaspike (https://gforg.cinria.fr/project/uhvaspike) 1.0.18 Mohamed Ghalih Kashi (https://gforg.inria.fr/project/uhvaspike) Dominique Marimere (https://gforg.inria.fr/meve/damarime) edit this simulator (http://grzy.colorado.edu/emergent/index.php/Special:FormEdit AddSimulator/Natjul	Unknown	2006-2013	S Other		Mailing List (https://gforge.inria.fr /mail/?group_id=602)		Neurons Networks						Point Biological		No
MOOSE (Multiscale Object-Oriented Simulation Environment) (http://mooses.sourceforge.net/) 3  Upinder S. Bulli North S. Bulli AddSimulator/MOOSE, % 2001/ndiced. Object-Oriented Simulation, Environment 9, 29)	Ray and Bhalala 2008 (http://www.ncbi.nlm.nih.gov/pubmed /19129922)	2007-2013	GNU LGPL	Windows OS X Linux Unix	Mailing List they/four-of-ope.net /mail/?group_id=165660)	C++ and Python	Neurons Networks	Python scripting GUI					Point 3d Biological	MPI	Yes
MATLAB Neural Network Toolbox (http://www.mathworks.com/products/neuralnet/). 6.6.4  Mathworks  ###################################	Unknown	1998-2010	©, Proprietary	Windows OS X Linux Solaris 64-bit			Networks	Visual MATLAB			Hebbian LVQ Widrow-Hoff Kohonen				No
Addisimulator/M.H.A.W. serral. Network (mohes)  LENS (The light, efficient neural network simulator) (http://tedlab.mit.edu/% 7Edr  **Reno/ 2-A3**  Dr. Douglas Robe (http://tedlab.mit.edu/s/ 7Edr)  Dr. Douglas Robe (http://tedlab.mit.edu/s/ 7Edr)  **The company of the company	Reduke99 (http://grey.colorado.edu /emergent/ndex.php/Reduke99)	1998-2000	Other FOSS	Windows OS X Linux Unix		c	Networks	Visual		Quickprop Feed-forward recurrent RBPTT/CRBPTT	Kohonen	Boltzmann	Point		No
$KInNeSS~(KDE~Integrated~NeuroSimulation~Software)~(http://symphony.bu.edu/)\\ 0.3.4~RC2$	GorchotechnikovEtAl04 (http://symphony.bu.edu/Docs/KInNeSS /ICCNS_04.pdf)	2004-2008	GNU GPL	Linux		C++									No

Dr. Anatoli Gercheschaikov	Grandwerg IAMS (http://rymphory.hacs.nd/bac/KlaNeSS //CCNS_US.pdf)														
Dr. Andreas Zell (http://www.ra.c.umi-turbingen.do/mitarth/tell/welcome_e_html)  edit this simulator (http://grzy.colorado.edu/emrgest/index_php/Special-FormEdit //AdS/mitator/jawNNS)	Unknown	2002-2007	©, Proprietary	Java		Java	Networks	Visual		Quickprop RPROP Backpercolation Counterpropagation	Hebbian Kohonen Delta		Point		No
HHsim (http://www.cs.cmu.edu/%7EdsUHHsim/) 3.2  Dr. David S. Touethy (http://www.cs.cmu.edu/%7edet) Mark V. Albert Mahiya Benshdarpour No Images Provided edit this simulator (http://grey.colorado.edu/emergent/index_php/SpecialFormEdit //AddSimulator/HHsim)	Unknown	2003-2012	2 GNU GPL	Windows OS X Linux Unix		MATLAB	Neurons	Visual					Biological		No
GENESIS (the GEneral NEural Simulation System) (http://genesis-sim.org/) 2.3  D. Jame Bower (http://www.lab.org/)  Dr. Dave Beeman (http://doptar.colvrado.olu/decenan/dbeeman.html)  Dr. Dave Beeman (http://doptar.colvrado.olu/decenan/dbeeman.html)  dr. Dr. Dave Beeman (http://gray.colvrado.olu/dbeeman/dbeeman.html)  dr. Dr. Dave Beeman (http://gray.colvrado.olu/dbeeman/db	Beemanli AU7 (http://www.biemedcentral.com/content /psdf/471-2202-8-52-P4.pdf)	1988-2007	7 GNU GPL	Windows Mac Linux	Mailing List (http://nourceforge.net /mailarchive fromm.php?com_nume=genesis- um-users)	c	Neurons	Visual Scripts (interpreted) Scripts (compiled to DLL)	No	possible	possible	possible	Point Biological		No
FANN (Fast Artificial Neural Network Library) (http://leenissen.dk/fann/) 2.2.0  Steffen Nissen  Geith Nissen  deit this simulator (http://prey.olorrado.cdu/emrgent/index.php/Special/FormEdit //Add/Simulator/fANN, CaParal.Artificial, Neural.Network_Library 8.29)	Nissen05 (http://grey.colorndo.edu /emergent/index.php/Nissen03)	2004-2012	2 GNU LGPL	Windows OS X Linux Unix	Forum	c	Neurons Networks	Visual Dozens of language bindings	No	RPROP iRPROP Quickprop	Kohonen	No	Point		No
Encog (http://www.heatouresearch.com/encog) 2.4  Jeff Heaton (http://www.heatouresearch.com/ehout.html)  The standard of the s	Unknown	2008-2010	Other FOSS	Java .NET	Forum (http://www.heatouresearch.com /forum)	Java C#	Networks	Java C# (other .NET languages)		Counterpropagation Elman Recurrent	Kohonen RSOM Competitive Learning	Hopfield Boltzmann	Point	GPU	No
Catacomb2 (Components And Tools for Accessible COmputer Modeling in Biology (http://www.compuseuro.org/catacomb/fieles.html) 2.111  Rebert Camon  Rebert Camon  General Camon Components And Tools for Accessible Computer Modeling in Biology (http://www.colorada.edu/emergen/index.php/Special:FormEdit /AddSimulator  //Catacomb2, 6-28/Components And, Tools for Accessible, COmputer Modeling, in, Biology)	Unknown	2001-2003	3 GNU GPL	Java		Java	Neurons Networks	Visual	Walls Sound sources Food dispeners Sensors Robot effectors				Biological		No
CX3D (CorteX simulation in 3D) (http://www.inl.uzh.ch/% 7Eamw/seco/cx3d/) 0.83 Frédéric Zubler (http://www.inl.uzh.ch/% 7Eamw/seco/cx3d/) 0.83 Frédéric Zubler (http://www.inl.uzh.ch/s/spoploifred)  Gelf this simulator (http://gry.colorado.chu/serrgent/index_php/Spocial:FormEdit //Add/Simulator/LD, 2-2/ScArteX_valundation_in_3/D5-29)	ZablerDouglas(9) (http://www.ini.uzh.ch /pub/pdfs /Zab,Dou_growth,2009_FCN.3.pdf)	2009-2010	GNU GPL	Java		Java	Neurons	Java					Biological		No
CNS (Cortical Network Simulator) (http://cbcl.mit.edu/jmutch/cns/) r4III  Jim Mutch (http://www.mit.edu/%TEjmutch)  Jim Mutch (http://www.mit.edu/%TEjmutch)  Gill this simulator (http://grzy.colorado.chicumergeni/mics.php/Special:FormEdit  //Add/simulator(NS, %Ze/Gritial,Network,Simulator%23)	MutchKnobichPoggio 10 (http://depuce.mit.edu/bustreum/hundle //721.1/5/88/MIT-CSAIL. TR. 3010-013.pdf)	2010-2013	3 GNU GPL	Windows OS X Linux Solaris 64-bit	Forum (http://cns/ranework.freeforums.org /cns-42.html)	С	Neurons Networks	MATLAB C (via mex)		3D convolutional networks			Biological	GPU	No
Brian (http://www.briansimulator.org/) 2 Romain Bretic (http://www.dcm.st/Fi/Thretic) Dan Goodman (http://www.d	GoodmaBretto(S (http://www.frontierini.org/ /neuroinformatic-i/paper10.3389/ /neuroinformatic-i/paper10.3389/ /neuroinformatic-i/paper10.3389/ /neuroinformatic-i/paper10.3389/ /river.plp/shouses-10/5-medicatio.org /orientphysicologic-i/formatic-index- /orientphysicologic-i/formatic-i/f	2008-2013	3 GNU GPL	Python	Forum (http://groups.google.fr/group /briansupport)	Python	Neurons Networks	Python Scripts			STDP short-term plasticity		Point 3d Biological	Distributed GPU	Yes
Basic Prop (https://web.archive.org/web/20130617212807/http://basic-prop.posterous.com/) 1.2  Fred Cummins (http://pworldroord.com/fred)  Gelf this simulator (http://grcy.colorado.edu/emergent/index.php/Special-FormEdit /AddSimulator/Basic, Prop)	Unkzowa	22 December 2011-22 December 2011	r Other	All		Java	Networks	No programming experience required. Suited for teaching.	JVM	Yes	No	No			No
(INVT) iI.ab Neuromorphic Vision C++ Toolkit (http://ilab.usc.edu/toolkit/) 3.1  Dt. Lument lisi (http://ilab.usc.adu/titi)  Dr. Christof Kech (http://www.kibe.calexch.edu/tit/  Dr. Christof Kech (http://www.kibe.calexch.edu/ti/  Education (http://www.kibe.calexch.edu/ti/  Education (http://www.kibe.calexch.edu/ti/  Edit this simulator (http://grys.olorado.edu/emergent/index.php/Special/FormEdit  /Add/simulator/tv22BNYT 8.2/I.ab. Networtpile: Vision, C++, Toolkit)  Retrieved from 'https://grsy.colorado.edu/emergent/index.php/litid=Comparison_of_Neural_Networtpile	Full List (http://klab.urs.cdu/nodkit /publications.shtml)  K.Simulators&oldid=10307	2001-2013	3 GNU GPL		Forum (http://liab.unc.eduk.gi-bin /yabb/ValtB.gt)	C++	Networks	C++					Point	MPI	No

■ This page was last modified on 24 December 2013, at 12:36.

■ This page has been accessed 52,862 times.