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Poietic Generator

The **Poietic Generator** is a social-network game designed by Olivier Auber^[1] in 1986; it was developed from 1987 under the label *free art*^[2] thanks to many contributors.^[3] The game takes place within a two-dimensional matrix in the tradition of *board games* and its principle is similar to both *Conway's Game of Life* and the *surrealists' exquisite corpse*.

However, it differs from these models in several respects. It is not an algorithm like Conway's, but human players who control in real time the graphic elements of a global matrix, based on one unit per person. Unlike the *exquisite corpse*,^[4] in which there are always hidden parts, here all the players' actions are visible at all times by each of them. Unlike *board games*, there is no concept of winning or losing, the goal of the game is simply to collectively draw recognizable forms and to observe how people create them together.

The name "Poietic Generator", derived from the concept of autopoiesis in life sciences (Francisco Varela), and of poietic in philosophy of art (Paul Valéry, René Passeron), illustrates the process of *self-organization* at work in the continuous emergence of the global picture. Since its inception, the Poietic Generator has been designed as part of a wider *action research* to create an "Art of Speed".^[5]

Rules of the game

Every player draws on a small part of a global mosaic formed by the dynamic juxtaposition of those parts, which are manipulated by all the participants (eventually it will be possible for several thousand players to play simultaneously). Every player can therefore change the sign in their square, depending on the overall state of the image, which itself depends on the actions of all the individual players. Out of this cybernetic loop emerges a kind of narrative: autonomous forms, sometimes abstract, sometimes figurative, appear in a completely unpredictable manner and tell stories.^[6]

Images of the Poietic Generator

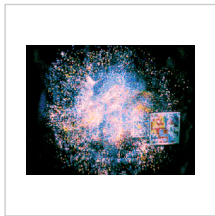
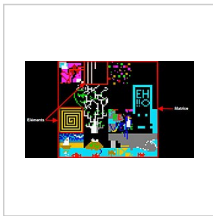
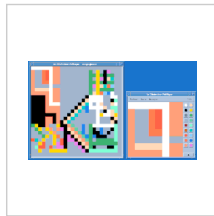


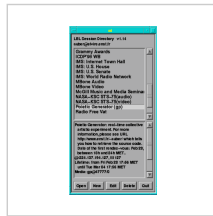
Illustration of the concept (1988)



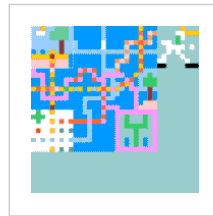
Each player draws on one element of the total matrix



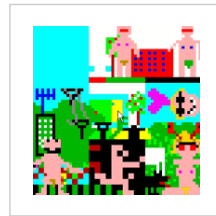
Interface, Multicast version (1994)



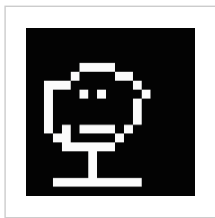
Announcement of a session on the Mbone (February 1996). Screenshot of the "session directory" (Lawrence Berkeley National Laboratory)



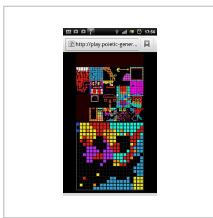
Recording the first real-time group interaction without any center (1996)



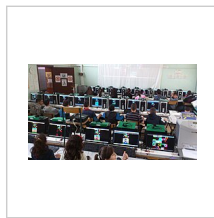
Recording of a web experiment, X-00 festival (2000)



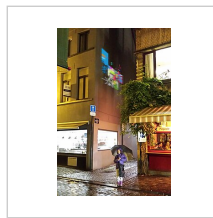
Recording of an experiment with the "Elmediator" digital public space (2005-03-23)



Mobile phone user interface (2012)



Poietic Generator classroom experiment in Brussels (2013)



First permanent urban display, Rue du Chien Marin, Brussels. Dec. 2013.

In practice, each player can draw (using a graphics tablet) on a very simple image. This image is limited in size (20×20 pixels) by design. This was done to prevent a single player from drawing figurative signs by themselves. The overall image is continuously formed in the style of a spiral, that is to say the sign of the first player occupies the whole image, and the signs of the newcomers are juxtaposed in the first winding around it, and so on. If a player forfeits the game, their sign immediately disappears and its position remains empty until another player occupies it. A zoom in/zoom out feature ensures that the image, constituted by the juxtaposition of all signs, is permanently visible to all the players.

Versions

The Poietic Generator runs on two types of architecture, a centralized network (for versions 1, 3, 4), or an *ad hoc* distributed network capable of implementing the multicast protocol (case version 2). Therefore, no location in the network plays a particular role and according to the rules of the Poietic Generator, an "all-all" interaction may take place without the intervention of any kind of control center.

1. Videotex version, developed in C for the French Minitel system (1987)^[7]
2. IP Multicast version, developed in C for the Internet Mbone (1995)^[8]
3. IP Unicast version, developed in Java for the Web (1997)^[9]
4. Mobile version developed in Ruby on Rails and JavaScript (2012)^[10]

This latest version is available on the web,^[11] via Android mobile phone,^[12] iPhone / iPad,^[13] via Facebook,^[14] and has a reference site.^[15]

Experiments

Since 1987, the Poietic Generator (various versions) inspired many experiments in diverse contexts. The first public experiment was at the Centre Georges Pompidou in 1990 as part of the "Communication and monumentality" exhibition.^[16] Other museums, art galleries, digital public spaces, festivals,^[17] and international conferences,^[18] etc. then followed, including the 1991 "Communicating Machines" exhibition by the Cité des Sciences et de l'Industrie (Paris).^[19]

Several experiments were performed on the periphery of academic research. For instance, experiments were conducted in particular at Telecom ParisTech (where Olivier Auber was a guest artist between 1994 and 1997), during the Internet Mbone experiment (with Lawrence Berkeley National Laboratory and Xerox PARC), and at other laboratories. The subjects of the experiments were diverse: network protocols, the process of emergence of forms, human-machine interfaces, collective intelligence,^[20] group behavior,^[21] etc.

Since 1997, the Poietic Generator is accessible to everyone on the web as a work of free art (under Free Art License from 2002). At the request of various groups of artists, teachers or researchers, this led to several hundred recorded^[22] game sessions, some of them commented.^[23] In several of these sessions, 70 players participated simultaneously. Several experiments were in kindergarten, elementary and secondary schools (including one experiment linking multiple classrooms).

The most recent event was in the spring of 2011 when 70 people responded to a call on the France Culture radio station^[24] to finance the mobile version of the Poietic Generator via the crowd-funded platform^[25] This version is currently online (2012).

Position in art history

Several art historians and theorists, including Don Foresta,^[26] Gilberto Prado,^{[27][28]} Mario Costa,^[29] Caterina Davinio,^[30] Jean-Paul Fourmentraux,^[31] Louis-José Lestocart,^[32] Elisa Giaccardi,^[33] Edmond Couchot and Norbert Hillaire,^[34] Annick Bureau,^[35] Judy Malloy,^[36] recognize the Poietic Generator as one of the historical works of digital art, interactive art, generative art and Net.art. Note that the Poietic Generator was born at the time of Minitel, before the invention of the Web (1994), and implemented from 1995 onwards on experimental Multicast networks foreshadowing IPv6. The introduction of the Minitel in France, offered, for the first time in the world, an easy way to implement telematic art. Several French artists attempted somewhat similar experiments,^[37] but none of them had the durability of Poietic Generator.

Anne Cauquelin, who deals with the mechanisms of the "system of art" in several of her works,^[38] considers the Poietic Generator to be the prototype of a new "cognitive art". This new "cognitive art", following Marcel Duchamp, Yves Klein and Andy Warhol, re-institutes the task of questioning again, and in a more radical way, the "doxa of art".

Like in the Renaissance, art becomes (a) heuristic, a type of probe with the task to explore a continent.^[39]

Since 1987, the Poietic Generator directly inspired multiple variations and derivative works. Some of them developed by its original author^[40] based on his own research process,^[41] some of them by other artists and/or researchers, especially Yann Le Guennec^[42] and fr:Albertine Meunier.^[43] It has also initiated various experiments with some communities, including some contributors of Wikipedia.^[44] As a model, the Poietic Generator directly inspired the work of some architects, planners,^[45] social scientists^[46] and anthropologists.^[47] Indirectly, the Poietic Generator probably inspired many other artists and designers too.^[48]

In other respects, many commercial games have partially taken up the principle of the Poietic Generator (the act of dropping one or more 2D or 3D pixels into a more or less synchronous collective space), notably The Million Dollar Homepage (2005), Minecraft (2009), Place (Reddit) (2017), etc.

Theoretical aspects

Modelling

Jean-Paul Fourmentraux, in his classification^[49] of Net.art devices, quotes the Poietic Generator as one of the few representatives of the "alteraction" devices category. These types of devices support processes of pure synchronous human communication, free from algorithmic control or introduction of external data. This alteraction process, envisioned as "an intermediate action which makes one become other"^[50] (Philippe Quéau), lies outside the field studied by the general theory of games, as its branch covering multiplayer games (coordination games, cooperative games) which does not consider the emergence of meta-levels: specifically the "becoming other". According to testimony, the Poietic Generator has an amazing ability to immerse its players in a learning process of social phenomena: it gives not only the possibility to live a kind of "conversation", but in some degree, to access to its model by observing and interpreting autopoietic phenomena, that is to say the "life", which takes place there. According to Olivier Auber, there would be in the Poietic Generator, intrusion of eigenfrequencies, similar to those existing in other autopoietic systems (cell, cerebral cortex, etc.).^[51] Despite their apparent complexity, these temporal phenomena (oscillations between structure and chaos, complexity and simplicity) could be analyzed, even "mathematised",^[52] particularly in the light of the simplicity theory.^{[53][54]} (Jean-Louis Dessalles). Structuring phases corresponds to a "becoming other" (Quéau) and a greater "simplicity" (Dessalles). The emergence of these kinds of paradigm shifts would be both unexpected and deterministic.

Perspectives

The Poietic Generator may be seen as a generic model^[55] of multiple complex systems (informational, urban, economic, ecological, etc.) to which everyone is confronted daily. But unlike these systems, often opaque about their prerequisites, their rules and infrastructure, the Poietic Generator is perfectly transparent: "everything is known or knowable",^[6] in particular the fact that it operates either centrally or without any center. According to Olivier Auber,^[56] these two architectures, centered or not, are achieving some forms of "perspective" (within the meaning of the Renaissance) in which the vanishing point lies, in the first case, in a physical center (the server), in the second in a "code" under cover of which the network is sharing information (its sign of recognition in some way). He speaks in the first case of a "temporal perspective" because it is in the center where emerges moment by moment the "proper time" of the network (its rhythmic pulsations). In the second case, he speaks of a "digital perspective"^[57] because it is a "code" (an arbitrary number) which is the guarantor of the emergence of the proper time of the network in each of its nodes. These two perspectives are of course not visual as is the case of the spatial perspective, but they share with it some topological and symbolic attributes. In particular, one can speak of "legitimate perspective", as Alberti did in the Renaissance. The Poietic Generator as an Ideal city, implements these two non-visual perspectives, described by Oliver Auber as "anoptical perspectives," as perfectly and obvious as possible. Throughout the game, players can gradually take a cognitive step back, and by analogy grasp in thought the nature of the perspectives in question. The hypothesis of Olivier Auber is that these perspectives are exercised within the framework of "real" systems, opaque and complex as mentioned above, and that they shape the imagination and judgment, that is to say the doxa of those who are enrolled in it.

In attempting to uncover the "anoptical perspectives", the Poietic Generator positions itself as a metagame which invites a questioning of the processes of social interaction, especially when they are mediated by technological devices interacting with social networks.^[58] For Olivier Auber, the Poietic Generator, as a model and experience available to all, could contribute to "a certain conceptual knowledge (*dianoia*) of how the *doxa* is formed and exercised on us, especially through technology". At a time when technical objects are close to the body and are preparing to invade it, the Poietic Generator could help us by providing "a set of conceptual tools for the new "perspecteurs" (Abraham Bosse) that we could all become" in order, he says, to "rethink the imagination of the technology in full light".^{[59][60]}

Reception by the institutions of research, culture and media

Attempts like this are crucial to emancipate the technology from the status a mere instrument for defined purposes, and to recognize the role that it should have as a creator of culture and practices.^[61]

Since the 1990s, many scientists in all disciplines, mentioned the Poietic Generator as a model which may help to rethink the cultural, even anthropological changing, latent in networks, and especially emphasized the urgency of a "redefinition of the notion of authorship".^[62] Some of these researchers^[63] brought in a personal support to attempts to practice large-scale experiments using channels such as broadcast television stations, museums, public places, etc. Without listening and support from these institutional broadcasters,^[64] very few of these projects have been successful. Handicapped by its transdisciplinary or even "undisciplinary" nature, and naturally questioning the legitimacy of human organizations to which it is dealing with, the action research on the Poietic Generator has never found any other field to flourish as the Internet itself. Nevertheless, the Poietic Generator and writings of its author are quoted in many academic thesis,^[65] and in at least one "100% plagiarized".^[66]

See also

- Autopoiesis – System capable of producing itself
- Poiesis – Concept in semiotics
- Game classification – Taxonomy of game activities
- Game theory – Mathematical models of strategic interactions

- **Doxa** – Greek word meaning common belief or popular opinion
- **Telematic art** – Type of art projects
- **Net.art** – Group of artists that use the Internet as their medium
- **r/place** – Online social experiment on Reddit

References

- Olivier Auber, independent researcher, member of the research cluster of the P2P foundation (<http://p2pfoundation.net>), affiliated since 2012 to the interdisciplinary research group "Evolution, Complexity and COgnition" (ECCO), Vrije Universiteit Brussel (<http://ecco.vub.ac.be/?q=node/30>) and to the Global Brain Institute (<http://globalbraininstitute.org>).
- Prior the free art license (2000), the Poietic Generator had its own free license: <https://web.archive.org/web/20020605145918/http://perso.enst.fr/~auber/sonnmaire.html#statut>
- Poietic Generator's contributors : http://poietic-generator.net/blog/?page_id=91 Archived (https://web.archive.org/web/20120520031327/http://poietic-generator.net/blog/?page_id=91) 2012-05-20 at the Wayback Machine.
- Gothardt, Alexxa (2018-08-04). "Explaining Exquisite Corpse, the Surrealist Drawing Game That Just Won't Die" (<https://www.artsy.net/article/artsy-editorial-explaining-exquisite-corpse-surrealist-drawing-game-die>). *Artsy*. Retrieved 2020-04-28.
- Esquisse d'une position théorique pour un art de la vitesse* (http://nid.effer.net/proj/_SPEED_/1.4/articles/auber.html), Olivier Auber, SPEED 1997.
- Olivier Auber, in *Poietic Generator reloaded, l'aventure peut (re)commencer !* (<http://www.kisskissbankbank.com/fr/projects/generateur-poietique/news/poietic-generator-reloaded-l-aventure-peut-re-commencer>) Archived (<https://web.archive.org/web/20140107075545/http://www.kisskissbankbank.com/fr/projects/generateur-poietique/news/poietic-generator-reloaded-l-aventure-peut-re-commencer>) 2014-01-07 at the Wayback Machine
- Vidéotex version for the Minitel system (1987): deprecated.
- "gp" IP Multicast version of the Poietic Generator, developed in C for the Internet Mbone (1995): (Telecom ParisTech server (<http://www.in.fres.enst.fr/~dax/guides/multicast/mdownload.html>) Archived (<https://web.archive.org/web/20150924034926/http://www.in.fres.enst.fr/~dax/guides/multicast/mdownload.html>) 2015-09-24 at the Wayback Machine)
- IP Unicast version, developed in Java for the Web (1997)(Olivier Auber's server (<http://perspective-numerique.net/SOURCES>))
- Mobile version developed in Ruby on Rails and JavaScript (2012) (Github (<https://github.com/Gnuse/poietic-generator>))
- Play over the web : <http://play.poietic-generator.net/>
- "Android app" (<https://play.google.com/store/apps/details?id=com.applidium.poieticgen>).
- "Iphone/Ipad App" (<https://web.archive.org/web/20130704144145/https://itunes.apple.com/fr/app/generateur-poietique/id467380785?mt=8>). *iTunes*. Archived from the original (<https://itunes.apple.com/fr/app/generateur-poietique/id467380785?mt=8>) on July 4, 2013.
- "Générateur Poietique" (<https://www.facebook.com/GenerateurPoietique/>). *www.facebook.com*.
- Reference site: <http://poietic-generator.net/blog/> Archived (<https://web.archive.org/web/20120623014423/http://poietic-generator.net/blog/>) 2012-06-23 at the Wayback Machine
- The exhibition "Communication and monumentality" (Centre Georges Pompidou, 1990) presented the seven laureates of the *France-Japon Symbol* contest launched by Philippe Quéau. The Poietic Generator was one of them: Charles Lenay "The poietic generator - interactive telecommunication artwork". *Whole Earth Review*. Spring, 1989 (http://findarticles.com/p/articles/mi_m1510/is_n62/ai_7422483/)
- Festival X-00, Lorient, France, 16-19 mars 2000 (<http://www.x-arn.org/g/?doc=x-00>), *Théophanie assistée par ordinateur* BREAK21 festival - Ljubljana, Sloveanie, 11 mai 2000 (<http://www.nettime.org/Lists-Archives/nettime-fr-0005/msg00005.html>)
- Musée Royal de Mariemont : *art en ligne · art en réseau · art en mouvement*, 6 juin 1999 (<https://web.archive.org/web/20000524140000/http://simsim.rug.ac.be/mariemont/fr/prog.html>), ARTMEDIA VIII (Paris 2002) - Texte d'Olivier Auber (http://www.olats.org/projetpart/artmedia/2002/t_oAuber.html) Archived (https://web.archive.org/web/20150924055703/http://www.olats.org/projetpart/artmedia/2002/t_oAuber.html) 2015-09-24 at the Wayback Machine in Dossier Artmedia VIII, in "Ligeia", Paris, 2002, pp. 21-245 (CNRF journal, including *Artmedia VIII Proceedings*), ARTMEDIA IX (Salerno 2005) - Annonce (http://www.tekmedia.net/magazine_detail.html?mld=712) - Mario Costa (ed.) (2005), *Phenomenology of New Tech Arts*, Salerno: Università di Salerno (Catalog, pp. 56), WJ-SPOTS#1 (Paris 2009) - Web (<http://old.wj-s.org/WJ-SPOTS-1-Paris>) Archived (<https://web.archive.org/web/20141020090229/http://old.wj-s.org/WJ-SPOTS-1-Paris>) 2014-10-20 at the Wayback Machine
- Jean-Louis Boissier, Catalogue de l'exposition « Machines à communiquer faites œuvres », La Communication, Lucien Sfez (éd.), Paris, Presses Universitaires de France et la Cité des sciences et de l'industrie, (1991)
- ProspecTic, nouvelles technologies, nouvelles pensées*, Jean-Michel Cornu, FING & Fyp Editions, oct. 2008. (Web (<http://perspective-numerique.net/wakka.php?wiki=ProspecTic>))
- Elisa Giaccardi, Center for LifeLong Learning and Design (L3D), Department of Computer Science and Institute of Cognitive Science, University of Colorado : *Mediators in Visual Interaction: An Analysis of the "Poietic Generator" and "Open Studio"* (PDF (http://l3d.cs.colorado.edu/~giaccardi/research/pdf/Giaccardi_JVLC05.pdf) Archived (https://web.archive.org/web/20140708222431/http://l3d.cs.colorado.edu/~giaccardi/research/pdf/Giaccardi_JVLC05.pdf) 2014-07-08 at the Wayback Machine)
- Some records: (perspective-numerique.net) (<http://perspective-numerique.net/wakka.php?wiki=GenerateurPoietiqueVideos>)
- Some comments: (Transactiv.exe) (<http://www.transactiv-exe.org/spip.php?article98>) Archived (<https://web.archive.org/web/20130426230438/http://www.transactiv-exe.org/spip.php?article98>) 2013-04-26 at the Wayback Machine
- France-Culture, *Place de la Toile*, 2011.04.10 (<http://www.franceculture.fr/emission-place-de-la-toile-agriculture-machines-et-reseaux-generateur-poietique-2011-04-10.html>) Archived (<https://web.archive.org/web/20141210150554/http://www.franceculture.fr/emission-place-de-la-toile-agriculture-machines-et-reseaux-generateur-poietique-2011-04-10.html>) 2014-12-10 at the Wayback Machine (Audio (<http://perspective-numerique.net/wakka.php?wiki=PlaceDeLaToile10042011>))
- A call to finance the mobile version of the Poietic Generator (KissKissBanBank crowdfunding platform) (<http://www.kisskissbankbank.com/fr/projects/generateur-poietique/news/poietic-generator-english>) Archived (<https://web.archive.org/web/20120928022746/http://www.kisskissbankbank.com/fr/projects/generateur-poietique/news/poietic-generator-english>) 2012-09-28 at the Wayback Machine
- Don Foresta (<http://www.donforesta.net/>) Archived (<https://web.archive.org/web/20131018143723/http://www.donforesta.net/>) 2013-10-18 at the Wayback Machine: *Chronologie historique résumée d'échanges artistiques par télécommunications. Les précurseurs, jusqu'en 1995, avant l'Internet* (PDF) (http://195.194.24.18/~donforesta/mambo/images/stories/other_docs/annexe_ga2.pdf) Archived (https://web.archive.org/web/20140517132711/http://195.194.24.18/~donforesta/mambo/images/stories/other_docs/annexe_ga2.pdf) 2014-05-17 at the Wayback Machine
- Gilberto Prado (<http://www.gilberttoprado.net/>): CRONOLOGIA DE EXPERIÊNCIAS ARTÍSTICAS NAS REDES DE TELECOMUNICAÇÕES (Web (<http://www.cap.eca.usp.br/wawrw/txtos/gilberto3.html>) Archived (<https://web.archive.org/web/20090425191023/http://www.cap.eca.usp.br/wawrw/txtos/gilberto3.html>) 2009-04-25 at the Wayback Machine)

28. Gilbertto Prado (<http://www.gilberttoprado.net/>): Arte telemática: dos intercâmbios pontuais aos ambientes virtuais multiusuário (Itaú Cultural:São Paulo, 2003.) (PDF (http://poeticasdigitais.files.wordpress.com/2009/09/2003-arte_telematica_dos_intercambios_pontuais_aos.pdf))
29. Mario Costa: *Internet et globalisation esthétique. L'avenir de l'art et de la philosophie à l'époque des réseaux*, Paris, L'Harmattan, 2003. (Google books (<https://books.google.com/books?id=i6xOfK067X0C&pg=PA70>))
30. Caterina Davinio: *Tecno-Poesia e realtà virtuali* / Techno-Poetry and Virtual Reality, essai (Italian/English). Préface par Eugenio Miccini, Sometti. Collana: *Archivio della Poesia del 900*, Comune di Mantova, Sometti (I) 2002.
31. Jean-Paul Fourmentraux: *Art et Internet. les nouvelles figures de la création*, Paris, CNRS Editions, 2005.
32. Louis-José Lestocart, *Epistémologie de la complexité et art contemporain*, Collège de France / PLASTIR, 2007 (PDF (<http://www.intelligence-complexite.org/fileadmin/docs/0707ljl.pdf>))
33. Elisa Giaccardi (<http://x.i-dat.org/~eg/>) Archived (<https://web.archive.org/web/20120720080513/http://x.i-dat.org/~eg/>) 2012-07-20 at the Wayback Machine: *Interactive Strategies of Network Art*, Proceedings of CADE '99, Third Conference on Computers in Art & Design Education", University of Teesside, 7–9 April 1999. PDF (http://l3d.cs.colorado.edu/~giaccardi/research/pdf/Giaccardi_CADE99.pdf) Archived (https://web.archive.org/web/20140517115912/http://l3d.cs.colorado.edu/~giaccardi/research/pdf/Giaccardi_CADE99.pdf) 2014-05-17 at the Wayback Machine
34. Edmond Couchot et Norbert Hillaire (http://multitudes.samizdat.net/_Hillaire-Norbert_): *L'art numérique*, Éditions Flammarion 2003
35. Annick Bureaud: *Art and Minitel in France in the 1980s*, in *Social Media Archeology and Poetics* edited by Judy Malloy, MIT Press, 2016. (<https://mitpress.mit.edu/books/social-media-archeology-and-poetics>)
36. Judy Malloy: *Networked Art Works in the Formative Years of the Internet* (2019) (http://narrabase.net/networked_projects_index.html)
37. Example of telematic art using Minitel : *Image-la Vallée*, vitrail monumental dessiné collectivement par minitel, (Jean-Claude Anglade) 1987. (Web (<http://jean.claude.anglade.free.fr/>))
38. Anne Cauquelin: *Fréquenter les incorporels*, PUF, collection « Lignes d'art », 2006. *Que sais-je ? L'art contemporain*, PUF, 9ème édition, mai 2009.
39. Anne Cauquelin, à propos of "cognitive art" in *L'art contemporain*, PUF (2009), p. 123.
40. Olivier Auber, derivative works of the Poietic Generator: *L'Anneau France-Japon, 1988* (<http://wiki.km2.net/wakka.php?wiki=FranceJap onReseau>) (lauréat du concours du symbole France-Japon, Paris-Kobé, 1988), *Le Trésor des Nibelungen, 2001* (<http://wiki.km2.net/w akka.php?wiki=Schatz>) (Boston CyberArt 2001 (<http://km2.net/aplush/nibelungenmuseum/presse/BostonGlobe/BostonGlobe.htm>), ISEA 2001 (<http://www.liberation.fr/guide/0101356321-tragedies-en-sous-sol>), NibelungenMuseum, Worms 2001 (<http://km2.net/aplush/nibelungenmuseum/communiqu/sommaire.htm>)), *@rbre (open collective memory), 2000* (<http://arbe.km2.net>) (Tourouvre 2006, Québec 2008 (<http://www.francegenweb.org/blog/index.php?post/2006/05/13/138-l-rbre-un-nouvelle-representation-graphique-de-la-genealogie>)), *L'Invisible Monument, 2002* (<http://wiki.km2.net/wakka.php?wiki=Invi sibleMonument>) (Metz, 2003 (<http://km2.net/IMG/jpg/libe10-05-2003-.jpg>))
41. Elen S. Riot : Olivier Auber, la perspective numérique, in *Technology Review*, MIT Ed. mars-avril 2008 (<http://wiki.km2.net/PDF/TechnologyReview0308.pdf>) Archived (<https://web.archive.org/web/20120524091025/http://wiki.km2.net/PDF/TechnologyReview0308.pdf>) 2012-05-24 at the Wayback Machine
42. Derivative work (Free Art Licence): *l'Agrégateur Poétique* (<http://anoptique.com/wiki/AgregateurPoietique>) Archived (<https://web.archive.org/web/20130509080611/http://anoptique.com/wiki/AgregateurPoietique>) 2013-05-09 at the Wayback Machine (Yann Le Guennec)
43. Derivative works (Free Art Licence): *BIG PICTURE* (<http://www.albertinemeunier.net/BigPicture/index.htm>) Archived (<https://web.archive.org/web/20120402145450/http://www.albertinemeunier.net/BigPicture/index.htm>) 2012-04-02 at the Wayback Machine, *A petits pas vers l'annonciation, ballet pour angelinos* (<http://www.albertinemeunier.net/a-petit-pas-vers-l-annonciation/>) Archived (<https://web.archive.org/web/20120402145728/http://www.albertinemeunier.net/a-petit-pas-vers-l-annonciation/>) 2012-04-02 at the Wayback Machine (Albertine Meunier 2010)
44. Derivative experiment: Wikipedia Watchlist, 2006/2008, (WebArchive (<https://web.archive.org/web/20081115043841/http://overcrowded.anoptique.org/ProjetAutographWikipediaWatchlist>), meta.wikimedia)
45. Atelier urbain du Grand Paris : *La cité bionumérique* (<http://www.ateliergrandparis.com/ateliersdebats/workshop/citebio.php>) Archived (<http://ps://web.archive.org/web/20120701142415/http://www.ateliergrandparis.com/ateliersdebats/workshop/citebio.php>) 2012-07-01 at the Wayback Machine
46. "Workshop Report on Creativity Support Tools, National Science Foundation, June 2005" (http://lisard.com/pdfs/creativitybook_final.pdf) (PDF).
47. Sally A. Applin & Michael Fischer: *Prospects for Extending User Capabilities Beyond Mixed, Dual and Blended Reality*, Centre for Social Anthropology and Computing, University of Kent Canterbury 2012. PDF (http://www.dfki.de/LAMDa/2012/accepted/PolySocial_Reality.pdf)
48. Examples of recent works using some Poietic Generator's principles: Cinematrix (<http://www.cinematrix.com/games.html>) (Loren Carpenter, SIGGRAPH, 2006), Bar chart for words (https://www.wired.com/science/discoveries/magazine/16-07/pb_visualizing) (Martin Wattenberg, IBM, 2008), Interactive documentaries (<http://rizomer.wordpress.com/2011/07/28/interactive-beings-interactive-documentaries/>) (Rizomer, 2011)
49. Jean-Paul Fourmentraux, *Les Dispositifs du Net Art* (<http://tc.revues.org/2872>), 2010
50. Philippe Quéau : *Metaxu : théorie de l'art intermédiaire*, Editions Champ Vallon, 1989 - 337 pages
51. Jean Petitot, *Modèles dynamiques en Sciences cognitives* (<http://jean.petitot.pagesperso-orange.fr/JPModeles.html>)
52. Olivier Auber : *Perspectives anoptiques : théorie et applications* PDF (<http://perspective-numerique.net/PDF/RecherchePerspectivesAnoptiques.pdf>)
53. "Simplicity Theory" (<https://simplicitytheory.telecom-paris.fr/>).
54. Saillenfest, Antoine; Dessalles, Jean-Louis; Auber, Olivier (December 22, 2016). "Role of Simplicity in Creative Behaviour: The Case of the Poietic Generator". arXiv:1612.08657 (<https://arxiv.org/abs/1612.08657>). Bibcode:2016arXiv161208657S (<https://ui.adsabs.harvard.edu/abs/2016arXiv161208657S>). {{cite journal}} Cite journal requires |journal= (help)
55. Lenay, C. (1988): *Création collective et émergence de signes : l'oeuvre d'Olivier Auber*, published in Actes du séminaire interdisciplinaire de Sciences Cognitives et Epistémologie "Genèse des Représentations" - 01/1995 - p. 139-148, online on Academia (https://www.academia.edu/31940266/Cr%C3%A9ation_collective_et_%C3%A9mergence_de_signes)
56. As discussed by Inge Hinterwaldner in *The Systemic Image: A New Theory of Interactive Real-Time Simulations*, MIT Press (2016) - p. 28, 29, 283, 326, 327, 386. Available on Google Books (<https://books.google.com/books?id=XT3mDQAAQBAJ&q=Auber&pg=PA326>)
57. Olivier Auber : *Du Générateur poétique à la perspective numérique*, *Revue d'esthétique* 43 - 07/2003 - p. 127, online on Archée, Québec (<http://archee.qc.ca/ar.php?page=imp&no=207>), "The Aesthetic of the Digital Perspective", *Artmedia VIII*, Paris, 2002 (<http://v.arts.ucla.edu/publications/publications/02-03/Artmedia/PARTICIPANTSe.htm>)
58. De nouvelles perspectives pour les « réseaux sociaux ? », conférence dans les cadre des « Entretiens du nouveau monde industriel », Centre Georges Pompidou, 4 octobre 2008 (vidéo (<http://amateur.iri.centrepompidou.fr/nouveaumonde/enmi/ldt/index/xolivierauber>) Archived (<https://web.archive.org/web/20130618200559/http://amateur.iri.centrepompidou.fr/nouveaumonde/enmi/ldt/index/xolivierauber>) 2013-06-18 at the Wayback Machine)

59. Olivier Auber : Perspectives anoptiques : théorie et applications, ibid.
60. Auber, Olivier (2019). *Anoptikon : une exploration de l'internet invisible : échapper à la main de Darwin*. [Limoges]: FYP éditions. ISBN 978-2-36405-181-2. OCLC 1099538243 (<https://search.worldcat.org/oclc/1099538243>).
61. Isabelle Stengers, lettre de soutien, 1995 (<http://poietic-generator.net/PICS/lettres/stengers.gif>) Archived (<https://web.archive.org/web/20141129060021/http://poietic-generator.net/PICS/lettres/stengers.gif>) 2014-11-29 at the Wayback Machine
62. Anne Sauvageot et Michel Léglise, *Culture visuelle et art collectif sur le web* (PDF), rapport au Ministère de la Culture et de la Communication, 1999 (PDF (http://www.culture.gouv.fr/culture/actualites/rapports/sauvageot-leglise/art_col_web.pdf) Archived (https://web.archive.org/web/20100911041904/http://www.culture.gouv.fr/culture/actualites/rapports/sauvageot-leglise/art_col_web.pdf) 2010-09-11 at the Wayback Machine)
63. Some scientists supporting the Poietic Generator : Francisco Varela (biology) - lettre (<http://poietic-generator.net/PICS/lettres/varela.gif>) Archived (<https://web.archive.org/web/20141129060023/http://poietic-generator.net/PICS/lettres/varela.gif>) 2014-11-29 at the Wayback Machine, Paul Virilio (urbanism and philosophy) - lettre (<http://poietic-generator.net/PICS/lettres/virilio.gif>) Archived (<https://web.archive.org/web/20141129055955/http://poietic-generator.net/PICS/lettres/virilio.gif>) 2014-11-29 at the Wayback Machine, Isabelle Stengers (history of science) - lettre (<http://poietic-generator.net/PICS/lettres/stengers.gif>) Archived (<https://web.archive.org/web/20141129060021/http://poietic-generator.net/PICS/lettres/stengers.gif>) 2014-11-29 at the Wayback Machine, Bernard Stiegler (philosophy) - lettre (<http://poietic-generator.net/PICS/lettres/stiegler.gif>) Archived (<https://web.archive.org/web/20141129055949/http://poietic-generator.net/PICS/lettres/stiegler.gif>) 2014-11-29 at the Wayback Machine, Jean-Pierre Dupuy (philosophy) - lettre (<http://poietic-generator.net/PICS/lettres/dupuy.gif>) Archived (<https://web.archive.org/web/20141129060027/http://poietic-generator.net/PICS/lettres/dupuy.gif>) 2014-11-29 at the Wayback Machine, Roy Ascott (digital arts) - lettre (<http://poietic-generator.net/PICS/lettres/ascott.gif>) Archived (<https://web.archive.org/web/20141129055957/http://poietic-generator.net/PICS/lettres/ascott.gif>) 2014-11-29 at the Wayback Machine, Fred Forest (media art) - lettre (<http://poietic-generator.net/PICS/lettres/forest.gif>) Archived (<https://web.archive.org/web/20141129060006/http://poietic-generator.net/PICS/lettres/forest.gif>) 2014-11-29 at the Wayback Machine, Jean-Pierre Le Goff (history of science) - lettre (<http://poietic-generator.net/PICS/lettres/legoff.gif>) Archived (<https://web.archive.org/web/20141129060013/http://poietic-generator.net/PICS/lettres/legoff.gif>) 2014-11-29 at the Wayback Machine, Pierre Lévy (cognitive sciences) - lettre (<http://poietic-generator.net/PICS/lettres/levy.gif>) Archived (<https://web.archive.org/web/20141129055951/http://poietic-generator.net/PICS/lettres/levy.gif>) 2014-11-29 at the Wayback Machine, Isabelle Rieusset-Lemarié (http://cricc.univ-paris1.fr/index.php?option=com_content&view=article&id=15&Itemid=18) (humanities) - lettre (<http://poietic-generator.net/PICS/lettres/rieusset.gif>) Archived (<https://web.archive.org/web/20141129060008/http://poietic-generator.net/PICS/lettres/rieusset.gif>) 2014-11-29 at the Wayback Machine, Michel Tibon-Cornillot (<http://www.ehess.fr/fr/enseignement/enseignements/2012/enseignant/307/>) (history of sciences), Charles Lenay (<http://liris.cnrs.fr/enaction/docs/fiches2008/CharlesLenay.html>) (history of sciences) - lettre (<http://poietic-generator.net/PICS/lettres/lenay.gif>) Archived (<https://web.archive.org/web/20141129055947/http://poietic-generator.net/PICS/lettres/lenay.gif>) 2014-11-29 at the Wayback Machine, René Passeron (esthetics) - lettre (<http://poietic-generator.net/PICS/lettres/passeron.gif>) Archived (<https://web.archive.org/web/20141129060019/http://poietic-generator.net/PICS/lettres/passeron.gif>) 2014-11-29 at the Wayback Machine, Louis Bec (<http://chavalarias.com/tiki-index.php?page=Louis+Bec+%3A+L%27art+est+le+vivant&bl=y>) Archived (<https://web.archive.org/web/20141129075353/http://chavalarias.com/tiki-index.php?page=Louis+Bec+%3A+L%27art+est+le+vivant&bl=y>) 2014-11-29 at the Wayback Machine (artificial life) - lettre (<http://poietic-generator.net/PICS/lettres/bec.gif>) Archived (<https://web.archive.org/web/20141129060025/http://poietic-generator.net/PICS/lettres/bec.gif>) 2014-11-29 at the Wayback Machine, Philippe Coiffet (<http://www.cnrs.fr/cw/dossiers/dosrob/accueil/laboratoires/labo/tuteur.html>) (robotics) - lettre (<http://poietic-generator.net/PICS/lettres/coiffet.gif>) Archived (<https://web.archive.org/web/20141129060015/http://poietic-generator.net/PICS/lettres/coiffet.gif>) 2014-11-29 at the Wayback Machine, Pierre Sirinelli (http://www.twobirds.com/French/Lawyers/Pages/Pierre_Sirinelli1.aspx) (law) - lettre (<http://poietic-generator.net/PICS/lettres/siri.gif>) Archived (<https://web.archive.org/web/20141129055747/http://poietic-generator.net/PICS/lettres/siri.gif>) 2014-11-29 at the Wayback Machine, Sandra Travers de Faultrier (<https://archive.todaay/20120913144155/http://www.sgdj.org/toutes-les-actualites/718-notice-biographique-de-sandra-travers-de-faultrier>) (law) - lettre (<http://poietic-generator.net/PICS/lettres/faultrier.gif>), Jean-François Colonna (<http://www.lactamme.polytechnique.fr/>) (mathematics) - lettre (<http://poietic-generator.net/PICS/lettres/colonna.gif>)
64. Olivier Auber : *Grandeur et déchéance programmée de l'art numérique en France* 2011 (Web (<http://perspective-numerique.net/wakka.php?wiki=GrandeurEtDecheanceProgrammee>))

65. *Le copyleft appliqué à la création hors logiciel. Une reformulation des données culturelles ?*, Antoine Moreau, Université de Nice, 2011 (Web (<http://antoinemoreau.org/index.php?cat=these>)), *Sémiotique de la représentation de soi dans les dispositifs interactifs*, Fanny Georges, Paris I, 2007 (PDF (http://fannygeorges.free.fr/FGeorges_These_0108.pdf)), *Le Net-art, témoin d'une ère post-nationale*, Isabelle Lassignardie, Université de Pau, 2003 (Web (<https://it.scribd.com/doc/34829333/Isabelle-Lassignardie-Net-art-Annexes>) Archived (<https://web.archive.org/web/20141202120137/https://it.scribd.com/doc/34829333/Isabelle-Lassignardie-Net-art-Annexes>) 2014-12-02 at the Wayback Machine), *Quand un média devient médium* Cécile Wekler, Université Paris 3, 2006 (PDF (http://f.hypotheses.org/wp-content/blogs.dir/220/files/2010/09/memoire_M2_C.Welker.pdf)), *L'interactivité dans le Web-art* Jean-Davis Boussemaer, Université Grenoble 3, 2003 (PDF (<http://jdb2.free.fr/PDF/MAITRIS E/Corps.pdf>) Archived (<https://web.archive.org/web/20081119144022/http://jdb2.free.fr/PDF/MAITRISE/Corps.pdf>) 2008-11-19 at the Wayback Machine), *Mario Costa et l'esthétique de la communication*, Amélie Hamon, Université Paris I, 2006. (PDF (<http://www.observatoire-critique.org/IMG/MEMOIRE%20MARIO%20COSTA.pdf>) Archived (<https://web.archive.org/web/20121013143731/http://www.observatoire-critique.org/IMG/MEMOIRE%20MARIO%20COSTA.pdf>) 2012-10-13 at the Wayback Machine), *L'art numérique: médiation et mises en exposition d'une esthétique communicationnelle*, Lauren Malka, Paris IV, 2005. Web (http://www.memoireonline.com/08/07/547/m_art-numerique-mediation-mises-en-exposition-esthetique-communicationnelle12.html), *Les grandes images*, Julien Piedpremier, Paris VIII, 2005. PDF (http://www.almasola.net/these_JulienPiedpremier.pdf) Archived (https://web.archive.org/web/20100326124652/http://www.almasola.net/these_JulienPiedpremier.pdf) 2010-03-26 at the Wayback Machine), *Art Libre : Un enchevêtrement de réseaux discursifs et créatifs ?*, Charlotte Bruge. Lille III, 2003 PDF (<http://artlibre.org/wp-content/dea.pdf>), *Art Internet, anatomie de l'échange*, Eric Le Maillot, Groupe EAC, 2006 Web (http://www.memoireonline.com/06/09/2125/m_Art-Internet-anatomie-de-l-echange.html) Archived (https://web.archive.org/web/20141129052613/http://www.memoireonline.com/06/09/2125/m_Art-Internet-anatomie-de-l-echange.html) 2014-11-29 at the Wayback Machine
66. Étude sur une thèse 100% plagée (diffusée pendant plusieurs années par l'ANRT) reprenant les textes d'Olivier Auber : *Archéologie du copier-coller*, Jean Noël Darde (<http://archeologie-copier-coller.com/?p=7475>)

External links

- Poietic Generator (official site) (<https://web.archive.org/web/20120623014423/http://poietic-generator.net/blog/>)
- (in French) Perspective numérique (<http://perspective-numerique.net>)
- Anoptique (<https://web.archive.org/web/20120701035727/http://anoptique.org/>)
- Press release (<http://wiki.km2.net/wakka.php?wiki=PublicationsGénérateurPoietique>)

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