ABSTRACT: What is a networked narrative? In what respect does it differ from a hypernarrative? And “what is an author” when a text is no longer attached to a physical support, but is processed and formatted through layers and layers of code? This chapter of Networked tries to tackle these difficult questions by arguing that there exists a set of online narratives which revive the unity of pragmatic and denotative knowledge that once belonged to oral culture. When a network lacks a center or a leader, narratives that are truly open to participation function as a cohesive factor, holding together various nodes and components of the network. The chapter illustrates those concepts by analyzing different types of networked narratives, with a specific focus on hacktivism and the net.art of the last decade.

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He has a background in journalism and has co-authored, along with Giuseppe Marano, Net.Art: L’arte della Connessione [Net.Art: The Art of Connecting] (Shake, 2003-2008), the first Italian book on net.art, which explores the link between the heritage of the avant-gardes and technological innovation.

From 2000 through 2002 he has been involved with the organization of the net art festival Digital-Is-Not-Analog and, since 2004, has been advising the festival of “culture jamming and radical entertainment” The Influencers, hosted by the Centre of Contemporary Culture of Barcelona (CCCB), Spain. Between 2002 and 2004 he also collaborated with 0100101110101101.org and The Yes Men on projects such as Nikeground (2003) and Yes Bush Can! (2004). In the same period he lectured in media art festivals and conferences including TILT (Sydney, 2001), Transmediale (Berlin, 2002), Read Me! (Moscow, 2002), World Information (Novi Sad-Belgrade, 2003), the 50th Venice Biennale (2003) and Free Bitflows (Vienna, 2004).

Before moving to New York City in 2005, he co-authored, along with Domenico Quaranta and Luca Lampo, the art catalogue Connessioni Leggendarie: Net Art, 1995-2005 for the homonymous exhibition at the Mediateca Santa Teresa in Milano, and translated into Italian John Pilger’s Hidden Agendas (Fandango, 2003), Geert Lovink’s My First Recession (Apogeo, 2003), McKenzie Wark’s A Hacker Manifesto (Feltrinelli, 2005), and Kevin Mitnick’s The Art of Intrusion (Feltrinelli, 2006).
In 2006 he sat on the Selection Committee of the Netarts.org Grand Prize, assigned to the most innovative net art projects by the Machida City Museum of Graphic Arts of Tokyo. In 2008 and 2009 the NYU Council for Media & Culture awarded him two grants to program the conference Radars & Fences investigating the possible collisions between the Foucauldian notion of disciplinary society and the Deleuzian “control societies” across different fields such as the border, the media, the biotech industry, and the military.

As a Ph.D. student, he has been teaching a number of undergraduate classes in his own Department, and lectured in various academic conferences, including Harvard University and the Cultural Studies Association. Most of his writings are archived on his blog, Mythopoesis.

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When you start community-building, what you need to be able to present is a plausible promise. Your program doesn’t have to work particularly well... What it must not fail to do is convince potential co-developers that it can be evolved into something really neat in the foreseeable future. - Eric Raymond, The Cathedral and The Bazaar

The question of a cohesive factor then becomes increasingly associated with the stories that hold together, or at least define, a network as a structure distinct from other, more hierarchical forms of organization. The ability to tell stories in turn involves the capacity to disseminate those stories -- that is, to be heard, read, understood, and to convince those who are the 'targets' of the stories, and thus the potential nodes or components of the network. - Samuel Weber, Targets of Opportunity

Eric Raymond's and Samuel Weber's reflections emphasize an aspect of network culture frequently overlooked by new media theory: the relation between networks and narratives. Both theorists assume that when it lacks a single center or leader a network can grow or expand, endure or collapse, depending on the appeal of the stories it produces.

In his seminal text on open source culture, Raymond analyzes the dynamics of cooperation, self-organization and information-sharing underpinning the development of Free and Open Source Software (FOSS). Within a gift economy such as the open source economy, striving for consensus, he argues, means presenting "a plausible promise" to which a high number of programmers may respond at the moment of the launch of a new developing project.[1] Because in its early stages FOSS development is rarely retributed, programmers value other factors such as the project coordinator's reputation, and the possibility that the software may become popular over the years. A successful collaboration inevitably bolsters a programmer's prestige within the open source community -- a prestige he/she can subsequently spend in more ambitious and possibly remunerative projects.

Focusing on the pragmatics of storytelling, Weber's text begins with a discussion of netwar as confrontation between networks, to focus in the second part on the emergence of Jewish messianism, understood here as a diachronic network, i.e. a tradition spanning over two millennia with no clear originating point nor end. Weber draws inspiration from Networks and Netwars (2002) an influential essay published by John Arquilla and David Ronfeldt, both researchers at RAND Corporation. By reviewing different typologies of networked organizations, doctrines and strategies such as the Zapatista movement in Mexico, the Colombian drug cartels, the Chechen guerrilla, and the International Campaign to Ban Land Mines, Arquilla and Ronfeldt pose a simple question:

What holds a network together? What makes it function effectively?[2]

The answer is disarmingly simple: when a network lacks a single center or a leader, it is held together "by the narratives or stories that people tell."[3]

Obviously, from an ontological standpoint, the quest for eternal salvation of the Jewish nation has little in common with the dream of a world liberated from proprietary software shared by people of various nationalities and (religious) beliefs. Nevertheless, the two worlds are not so far apart when we consider that FOSS developers and the Jewish community are both held together by a promise -- plausible and foreseeable for the former, transcendental and messianic for the latter.

But what is a (plausible) promise if not a story aimed at setting things in motion? As Weber points out, lacking a single center or leader, a network must rely not only on the appeal of the stories it produces, but also on the "capacity to disseminate those stories-that is, to be heard, read, understood, and to convince those who are the 'targets' of the stories, and thus the potential nodes or components of the network."[4]
Whether this ability to disseminate a story is a subjective quality bearing on a narrator operating within a network, or whether it is an automated feature built into the network itself is something I will discuss in more detail towards the end of this chapter. For now, I shall just notice that in searching for a 'cohesive factor' Weber quietly shifts the emphasis from the subject or content of a narrative to the modality through which a story is disseminated and received by an audience. Similarly, Raymond's emphasis on the feasibility of FOSS development implies that a good storyteller is knowledgeable of the resources a project might activate.

Shifting the focus on the pragmatics of storytelling is particularly relevant to an analysis of those narratives designed for a networked environment such as the Internet. Here even if author and audience do not share the same locale, in comparison to older media such as cinema, the printing press, and TV -- which generally involve a low level of feedback between sender and receiver -- they can more easily interact and enter a dynamic relationship, which may in turn affect the development of the storyline. In other words, a narrative designed to leverage the built-in feedback systems of the Internet will not be analyzed independent of its mode of circulation, that is, disjuncted from the quantity and quality of interactions it is able to activate among the nodes of a network.

Obviously, in order to be defined as such, a narrative must satisfy certain criteria. According to Mieke Bal, a narrative text presupposes the organization of a series of elements -- what she calls "the material of a fabula" -- according to a certain logic. These elements include the presence of actors (an actor endowed with distinctive human traits is a character), and the unfolding of events which mark a transition from one state to another. While the author is responsible for ordering the material of the fabula, the narrator, who can either be bound to one of the actors or external to the fabula, guides the reader's attention to some aspects of the story (although for Bal the narrator should not be identified with the holder of the "point of view," or "focalizing agent").[5]

On the Internet, all these elements can be easily reshuffled so that the different functions and subject positions attributed by narratologists to authors, primary and secondary narrators, characters, and readers appear blurred. Such a confusion is primarily due to the fact that, thus far, narratology has been predicated upon the analysis of relatively stable texts such as the film and the novel. While the fruition of those texts may change over time -- as they are reprinted, digitized, and adapted to new formats -- their inner structure and organization remain virtually unchanged.

A text circulating on the Internet, on the other hand, is much more malleable and can keep changing over a short period of time. Typical examples are the numerous versions of virus alerts, various forms of spam, solidarity chains, and other calls to action which spread virally online on a daily basis. Regardless of whether they are genuine or malicious, those messages usually take the form of short narrative emails that after presenting the receiver with a certain scenario ask her to perform an action, be it forwarding a message to friends, calling a phone number, running an anti-virus, connecting to a web site, signing a petition, etc. Thus, the reader is asked to become a character, and possibly a narrator in the story conveyed by the message she receives. On the other hand, readers are presented with multiple versions of the same story, which vary as they are linked, forwarded, edited, and commented upon in different contexts such as mailing lists, web sites, and social networks. As we shall see, this constant evolution of the same story is quite similar to that of oral culture wherein storytellers adapt the same story to the different audiences they are addressing.

Thus, I will begin this discussion of networked art as a participatory form of storytelling by isolating three distinctive features in those narratives which are designed for, and circulated in a networked environment:

1. A networked narrative describes an initially unsolved situation, a conflict, a clue, or a dilemma (denotative function);

2. A networked narrative demands its addressee to undertake action and play a role in it (performing function);
3. A networked narrative allows for the transmission of a set of rules, an ethics, or a system of beliefs that resonate with the nodes of the network to which it is addressed (pragmatic function).

These three levels are folded into one another or arranged in a hierarchical fashion in that each of them requires the previous one(s) in order to function. Simply put, actors cannot play a role in a story without a story, and can hardly make the ethics conveyed by the story their own (and possibly affect it) if they do not participate and experience the narrative in first person.

In order to unpack those points, I will first compare the interactive features proper of networked narratives with those of oral culture, and then contrast them with the purported interactivity of hypertext narratives and other forms of electronic literature. Then, I will offer a few examples focusing on those networked narratives designed and executed by the net.art community over the last two decades. To conclude, I will reflect on the mutated conditions of possibility for networked art in the age of Web 2.0.

**Beyond Hyperfiction**

To begin with, it must be noted that the advent of electronic media and of dense information networks has facilitated a revival of some aspects of oral culture or a "secondary orality," Walter J. Ong's suggestion that, while based on the permanent use of text, presents a "striking resemblance to the old in its participatory mystique."[6]

As Walter Benjamin noticed, in oral cultures the traditional storyteller was always part of the story she was telling, either because she experienced it directly or because she had heard it from someone else. A highly visible narrator, the oral storyteller interfered with her account as much she liked, occasionally partaking in the action as one of the characters. Furthermore, the storyteller encouraged her audience to continue to tell stories, so that the listener gained potential access to the same authority as the storyteller simply by listening.[7]

Jean Francois Lyotard has observed that this kind of knowledge involved a threefold competence that went well beyond the denotative content of a story: knowing how to tell a story; knowing how to listen to it; and knowing what role to play in it. In other words, the acts of narrating, listening, and performing contained a series of norms (the how-to's) that allowed for the reproduction of a culture. According to Lyotard, this pragmatic knowledge "defines the community's relationship to itself and to the environment... what is transmitted through these narratives is the set of rules that constitutes the social bond."[8]

In order to understand how online communication can recuperate some aspects of this pragmatic knowledge I will now contrast the concept of hypernarrative or hyperfiction to the narrative machines developed by the net.art community.

To begin with, it is interesting to notice how the early 1990s' promise that hypertext would revolutionize the world of literature has virtually disappeared from the cultural horizon of the new millennium. In spite of the attempts to commercialize literary CD-ROMs and software for creating and editing hypertext narratives, hyperfiction as a genre never really took off in the marketplace.

One of the reasons for such macroscopic failure is probably to be found in the resilience of the Barthesian "pleasure of the text," that is to say, in the reader's choice to surrender to the power of a narrative, and to its author.[9] If Barthes saw reading as an erotic experience of language, Benjamin connected it to death. According to the German philosopher, the reader draws her pleasure from surviving the end of the novel, as it is only by attending the exhaustion of the plot and the (figurative) death of the characters that she grasps the full meaning of their existence.[10] Now, if under the print paradigm, eros and death ensure the faithfulness of the reader to the text and to its author, hypertext seemed to hold the promise, at least for a while, of shifting the power balance in favor of the reader. For instance in the early 1990s, hypertext theorist George Landow drew on Barthes' distinction between the readerly and the writerly text to note how electronic hypertext had the power "to make the reader no longer a consumer, but a producer of the
text."[11] And yet, in the ensuing decade, online and offline hypertextual narratives never became a popular genre beyond limited circles of literary theorists and experimental writers.[12]

The fact is that when hypertext does not provide the reader with authoring tools and advanced feedback systems -- as in the case of most circulating hyperfiction -- it just ends up reinforcing the author's position, conversely disempowering the reader. As a matter of fact, the trade-off between giving up the voyeuristic pleasure of surrending to a story and the 'freedom' of choosing among a number of alternative options by following trails of hyperlinks, is clearly disadvantageous to the reader. Why should she renounce such a pleasure to enter a world whose fuzzy boundaries escape her?

To be sure, postmodern authors such as Borges, Queaneau, Calvino, Cortázar and contemporary filmmakers such as David Lynch, have managed to undermine the linear order of the fabula by designing nonlinear or multilinear stories with forking subplots, multiple beginnings or multiple endings. However, the physical properties of the codex and the temporal boundaries of the object-film have always endowed the reader/viewer with absolute sovereignty over these artifacts. It is those limits that made Barthes' famous reflections on the death of the author possible. According to the French semiologist "a text's unity lies not in its origin but in its destination," that is, in the reader's ability "to hold together in a single field all the traces by which the written text is constituted."[13] But if the experience of reading can be contained in a single field, it is because the book crystallizes in a continuum that coincides with the experience of reading "all the quotations that make up a writing."[14]

With hypertext such a continuum is blown open. A hyperfiction or hypernarrative, especially when it resides on the Internet, is not only open to multiple interpretations (like any other text), but entails forking, sometimes mutually exclusive readings. In other words, its polysemic rests on the semantic level no less than on a topological level, that is, on the level of the physical and logical arrangement of the elements that compose a hypertext. This means that a hyperfiction's unity lies no longer -- as in the case of books and films -- in its destination but rests firmly in the hands of the author, who usually retains exclusive access to the files and folders which support the hypertext's diagram.

Thus, the author can force the reader to follow specific reading trajectories by placing topological constraints in a hypertext. As Espen J. Aarseth has pointed out, this implies that the reader cannot freely skip and skim passages, thereby fragmenting the linear text expression, as in the process of reading a book. "Hypertext reading is in fact quite the opposite," writes Aarseth. "As the reader explores the labyrinth, she cannot afford to tread lightly through the text but must scrutinize the links and venues in order to avoid meeting the same text fragments over and over again."[15]

Now, if in spite of the truism that hypertext is an inherently interactive and democratic medium, works of hyperfiction often end up empowering the author, this is because new media bring to the foreground what Lev Manovich has described as the cultural logic of the database. According to Manovich, the database is a cultural form that privileges the paradigmatic over the syntagmatic dimension because it presents the user with lists of objects and collections of data whose connection with one another is extrinsic to it. "A database can support narrative," Manovich notes, "but there is nothing in the medium itself that would foster its generation."[16] To be sure, the interface to the database can channel, as we just said, the reader's choices. But every time a hypernarrative bifurcates presenting the reader with alternative options, "she is made aware that she is following one possible trajectory among many others."[17]

What we face here is thus not the death of the author, but the death of the authoritative role of teleological closure; that is to say, of the very possibility for the reader or listener of extracting meaning and pleasure from the clear ending of a story. The consequences of this indeterminacy or lack of form are dramatic: a hypernarrative involving alternative reading trajectories produces as many publics as the number of available readings. Being aware of the partiality of their experiences, hyperfiction readers have a hard time sharing them. As the author hides behind a maze of hyperlinks, her community of readers fails to reach a critical mass. This fragmentation of the readership results in the impossibility of solidifying a critical debate that has a cultural relevance within the social fabric, as in the case of cinematic and literary works.[18]
But the inability of hyperfiction to have a significant cultural impact is not to be identified with a failure of truly interactive and participatory narratives. The readers can in fact challenge the opacity of hypernarratives by becoming "metareaders," by trying to trace the map of their own readings -- a move that Aarseth defines as "a strategic counterattack upon the limited perspective offered to the reader by the hermetic text and an effort to regain a sense of readership." [19]

When a hypertext does not embed functions that facilitate its own mapping, this "counterattack" can be pursued by making use of a variety of tools. For instance, with the help of an offline browser, users can download a web site and visualize its underlying topology on their local hard drive. Then they can modify it, republish it, link it to and from other web sites, search engines, mailing lists, or even simply transcode it with a software that can yield surprising results. In other words, by making creative use of existing software, or designing software of their own, users set out to learn those pragmatic rules that allow for the production and circulation of information within a networked environment. Now, my contention is that it is precisely at this level that we approach the domain of networked art. [20] When a reader discovers unforeseen and creative ways of reading a story, she begins to cross over to an authorial position. Conversely, the author becomes a spectator who has now little control over her creation. This role exchange however is neither symmetrical nor a zero-sum game, because the reader's use of "unauthorized software" breaks the unilateral agreement the author has built into her narrative by choosing a specific software to design it, and a specific interface to visualize it.

In the 1990s, net.art groups such as 0100101110101101.ORG, ®TMark, The Yes Men and net.artists such as Cornelia Sollfrank, Vuk Cosic, Rachel Baker, and Mark Napier made an art of cloning, parodying and remixing commercial, political, and even art sites. By either using available offline browsers and FTP software, or creating their own applications which randomly generated ready-made web sites, these artists show us that not only are decoding tools never neutral, but that on the Internet the user can make her own tools for hacking new information out of the old. [21]

The Faker As Producer

As previously noted, spoof sites which target a politicians or a corporation, or art browsers which advance an aesthetic interpretation of HTML (such as Mark Napier's "Riot" or Jodi's "Wrongbrowsers") are hardly narrative objects. Some of those projects may contain narrative elements -- e.g. the "About" page of a spoof web site may feature a narrative description of a company's history or mission, but in general, and especially in the case of software, they should be read as statements, rather than stories, about a variety of aesthetic and political issues.

Nevertheless, if we consider these projects not in isolation but in relation to one another, a pattern begins to emerge. ®TMark is a case in point. Launched in the mid-1990s as a pseudo-corporation engaged in the peculiar business of "correcting the identity" of other corporations, ©TMark spun corporate aesthetics, language, and PRs to embarrass conservative politicians, gaming companies, and environment-unfriendly corporations. After executing hilarious stunts such as the spoof web sites of Rudolph Giuliani, George W. Bush, and the Shell corporation, switching the voice boxes of talking Barbies and GI Joes, promoting the illegal sampling, remixing and distribution of music, and inserting homoerotic scenes in a first-person shooting game, the group became a prominent culture jamming hub, listing on its web site dozens of possible subversive projects, many of which were suggested by third parties.
Serving as an umbrella-organization and a matchmaker between different agents, @TMark laid down its (anti-) corporate mission in the following terms:

The core of the @TMark system is a database of unfulfilled sabotage projects. Each of these projects has four simple keys: the worker, the idea, capital investment, and @TMark's corporate veil. The first key to any @TMark project is the idea. A project idea can be submitted through RTMark.com by any party, including the proposed worker or funder... The worker is the most important key to any @TMark project. Widespread corporate use of internet resources assures that @TMark's workers represent a diverse cross-section of the population. The third @TMark key is anonymous capital. Although most workers do not perform @TMark actions for the sake of gain, financial rewards can provide a small measure of comfort, or inspiration. Finally @TMark provides the "corporate veil" that displaces liability from funder and worker. @TMark also helps maximize the project's performance and profile with public relations efforts that highlight intrinsic key issues. [22]

At least three of the four keys listed above belong to what Bal calls "the material of a fabula." While the worker and the sponsor act as characters (the worker is the hero, the sponsor one of his or her allies), the product to be sabotaged is an object of desire (Ball calls it "object of intention"), i.e. the element that sets the drama in motion.

The idea, on the other hand, constitutes the original script from which @TMark weaves the elements of the fabula into a story. This process is done in several stages. On one level @TMark's function within the fabula is to provide "a 'corporate veil' that displaces the liability from funder and worker."[23] (Because in the U.S. corporations are people before the law, CEOs and managers take advantage of the corporate persona to deflect their personal liability; @TMark appropriates and reverses this process by offering a legal shield to those who engage in corporate sabotage.) On a different level @TMark acts as a storyteller who "helps maximize the project's performance and profile with public relations efforts that highlight intrinsic key issues."[24] By emailing witty press releases to a vast network of journalists and media operators, @TMark allows them to cover stories, from an entertaining angle, that would otherwise remain untold.
Moreover, once the story of a sabotage is reported by the media, the targeted individual or organization is prompted to provide a quick response, which usually takes the form of a threat or disavowal. The counterpart's reaction allows @TMark to effectuate a countermove, which yields in turn a new round of news stories. In general, continued media exposure does not play in favor of characters/actors whose motivations are utilitarian (e.g. increasing profit or collecting votes) and who take themselves quite seriously. Conversely, it favors those characters whose motivations are idealistic and who use the weapon of irony.
Besides showing how the Internet fosters a dramatic leveling of the playing field in public relations, @TMark's ability to move between different narrative and performative levels presents striking similarities to the participatory aspects of oral culture. First, the group sets up a narrative framework by which an activist intervention can be presented as drama (and through which the public is driven to identify with the "good guys.") Second, rather than acting as an external or presumably 'neutral' narrator, @TMark takes part in the narrative as a character. Third, the group encourages the public to continue to tell stories by providing on the one hand a public database of subversive projects (which can be executed by anyone); and on the other hand a series of tools and recommendations for hacking and social engineering.

For instance, in 1999 the group released Reamweaver, a software that, installed on a server, enables users to emulate the style and content of any static web site, and to update it in real time. First tested on gatt.org to spoof wto.org -- the official web site of the World Trade Organization -- the software has been subsequently used by The Yes Men, an offshoot of @TMark, to run a number of corporate web parodies. The main difference between The Yes Men and @TMark is that the former have emphasized the theatrical and narrative aspects of the anti-corporation's PR strategy by developing two actual characters (Andy Bichbaum and Mike Bonanno) who confront corporate CEOs and politicians in real-life.

By promptly responding to incoming emails and invitations from journalists and conference organizers who frequently mistake the spoof web sites for the official ones, The Yes Men have been able to represent the WTO, Dow, Exxon, and Halliburton in various international conferences and even on TV. With the aid of PowerPoint slides, 3D animations and theatrical props, the group has given a series of surreal lectures that take to the extreme known neo-liberal arguments, cheerfully proposing sinister solutions to global problems such as third-world starvation, oil shortages, and global warming.

Over the last five years, The Yes Men's lectures have been documented and edited into two feature films, The Yes Men (2004) and The Yes Men Fix the World (2009), which are both manifestoes of the "Trojan-horse activism" of the twenty-first century and a bleak portrait of the complacent elites of our time. Not incidentally, The Yes Men have chosen to organize the elements of the fabula (the lectures) in a quintessentially narrative format such as the docufiction. While @TMark gave a syntagmatic expression to its database of subversive projects in the form of multiple press releases -- but also had to measure the success of their stunts in terms of media exposure (thus delegating part of their story-telling to journalists) - - The Yes Men have assumed full narrative control over their interventions by using the Internet to produce them, and cinema to turn them into (layered) stories.
Returning to a traditional medium such as film for story-telling has also another consequence, namely, the multiplication of audiences. In fact, a spectator of a Yes Men film is invited to assess the reaction of the corporate audiences attending their lectures, who become unknowing characters in the story. Although the overall effect is apparently comic, in that the conference attendees generally approve rather than reject the ruthless if imaginative theses advanced by Bilchbaum and Bonanno, there is also a tragic element to it. As Jeanne-Pierre Vernant has demonstrated in his study of Greek tragedy, the irony of tragedy resides in the human misunderstanding of the meaning of words, whose ambiguity leads to various conflicts between the hero and other characters. To the spectator however, the duplicity of words is perfectly clear:

*It is only for the spectator that the language of the text can be transparent at every level in all its polyvalence and with all its ambiguities. Between the author and the spectator the language thus recuperates the full function of communication that it has lost on the stage between the protagonists in the drama.* [25]

Since, in our case, the authors of the film coincide with the heroes of the story, and their interventions do not lead to tragic endings, the drama resides in the fact that the difficult questions posed by the authors (how to solve the problems that afflict the world) go unanswered, rather than in an irreconcilable conflict between the characters.

The spectator is thus invited to assume the ethical stance of searching for solutions, and to keep posing uncomfortable questions to those who have the power to provide answers. In order to prompt the audience to assume such a position, that is, to transform the spectators into a network of collaborators, *The Yes Men* keep using the Internet to articulate the pragmatic rules of their narrative strategy. Thus, not unlike ®TMark, *The Yes Men* release DIYs for "tactical embarrassment" and "identity correction" that reveal the behind-the-scenes of their stunts.
A recent example is **Fix The World Challenge** an exhilarating compilation of tips for aspiring Yes Men that explains how to "Create a Ridiculous Spectacle," "Crash a Fancy Event," "Correct an Identity Online," "Hijack a Conference" and so forth. By simply logging into a Wordpress blog users can join online groups,
upload videos, and coordinate for direct actions with the promise that the best interventions will be featured in the DVD of the next Yes Men movie, and shown before screenings. [26]

Furthermore, the network is also able to produce valuable tools of its own, which are in turn useful to *The Yes Men*. For instance, the Italian art group Les Liens Invisibles has developed *A Fake is A Fake*, an evolution of "Reamweaver" that enables users to forge and parody authoritative themes such as those of nytimes.com, lefigaro.fr, ft.com, repubblica.it, whitehouse.gov and to run them on any Wordpress site. This software has been employed recently to run the online version of a fake *Special Edition of the New York Times*, a collaboration between The Yes Men and several activists which announced the end of the war in Iraq right after the election of Barack Obama to President of the United States, and then again, in September 2009, to run a fake Special Edition of the *New York Post*, focusing on global warming and climate change.


Thus, we see how the networked narrative set in motion by *The Yes Men* links and mobilizes multiple publics. While the spectators of a Yes Men's movie are invited to reflect on the tragic nature of our present condition (here is the cognitive, denotative function of storytelling) the very same spectators are also encouraged, along with Internet users, to become players and characters (performative function) in a game whose initial rules are loosely set by the group, but whose actual development is determined by the users themselves. Furthermore, when a node of the network designs a piece of software such as *A Fake is A Fake*, it sets the conditions for generating new modes of interaction and possibly new rules of the game (pragmatic function). As we shall see in the following sections, it is precisely through the combination of the denotative, performative, and pragmatic function of storytelling that users can cross over to an authorial position.

*Hacktivist Narratives*
The creation and evolution of toolkits which stem from sociopolitical practices such as pranks, fakes, and culture jamming is not unique to *The Yes Men* network. As a matter of fact, it is a common practice within the so-called 'hacktivist community,' which merges the skills of computer hacking with activism.

In 1998, the *Electronic Disturbance Theater (EDT)*, a radical art group co-founded by Ricardo Dominguez, Brett Stalbaum, Carmin Karasic, and Stefan Wray, released the *Zapatista FloodNet*, a Java applet that facilitates virtual sit-ins by automatically reloading the web pages of any target URL. Originally created to obstruct the web site of the Mexican government as a form of protest against the repression of the indigenous movement in Chiapas, and subsequently released as an open source software that could be further developed by third parties, the FloodNet became popular in the heydays of the anti-globalization movement, when hundreds of thousands of hacktivists launched it through their browsers to block or slow down access to the WTO, IMF, World Bank, and World Economic Forum web sites.

In the following years, hacktivist collectives such as the *Electrohippies Collective*, the *Federation of Random Action*, and *ToyZTech*, added new features to the original applet that both sped up the automatic reloading (the more people launch the FloodNet the faster and higher the number of requests to the target web site) and multiplied the communication channels among participants to the virtual sit-in.

Moreover, the tactical use of the software has been adjusted over time to the changing circumstances "on the ground." In particular after the Pentagon built a Hostile Applet to rebuff a netstrike on its web server in 1998 (an action coordinated by the EDT during the Ars Electronica Festival), and the upstream provider Verio shut down The Thing server during the *Toywar* in 1999, the hacktivists decided to distribute the FloodNet as a downloadable toolkit. While with the first netstrikes the participants had to connect to the EDT server in order to launch the FloodNet, with the downloadable toolkit they could launch it directly from their client, thereby reducing significantly the risks of a counter-attack.

The coordination of a distributed action, however, posed other problems such as the difficult verification of the number of participants, and the potential dispersion of a critical mass of demonstrators. In order to overcome these problems the hacktivists frequently set the virtual sit-in at the same time as actual street protests, and developed new tools that enhanced the interactivity of the online protest.[27] For instance, during the September 26, 2000 street protests against the World Bank in Prague, the *Federation of Random Action* and *ToyZTech* released a chat-room software that enabled users to ping the IMF's and World Bank's web servers every time the activists used key words such as "poverty," "finance," "investment," and "financial power." Furthermore, the software solicited error messages from the targeted servers by uploading unanswerable requests such as "Do you sell sheep shavers?" or "Our life is not for sale" -- a feature that, as we shall see, had already been implemented in the FloodNet interface. [28]

In this and other circumstances, the hacktivists use a rhetorical strategy that emphasizes the social and conceptual dimension of the action. Being aware of the impossibility of sharing a physical space such as a street or square, the hacktivists stress the importance of sharing a time-frame, or the subversive potential embedded in the simple choice of connecting simultaneously to a web site from all over the world. [29] In the case of the EDT this rhetorical strategy frequently takes on a performative, narrative form. Dominguez in particular has introduced a number of offline presentations of the software by wearing a ski mask and performing a story originally told by the *Subcomandante Marcos*. Adopting the narrating voice of Marcos, he sets the story in an indigenous village of Chiapas, which is electing its delegates to a larger EZLN meeting, while Pedrito, a two-and-half Tojolabal, is playing with a piece of wood:

*The village is assembled when a Commander-type plane, blue and yellow, from the Army Rainbow Task Force and a pinto helicopter from the Mexican Air Force, begin a series of low fly overs. The assembly does not stop; instead those who are speaking merely raise their voices. Pedrito is fed up with having the artillery aircraft above him, and he goes, fiercely, in search of a stick inside his hut. Pedrito comes out of his house with a piece of wood, and he angrily declares, "I'm going to hit the airplane because it's bothering me a lot." I smile to myself at the child's ingenuousness. The plane makes a pass over Pedrito's hut, and he raises the stick and waves it furiously at the war plane. The plane then changes its course and leaves in the direction of its base. Pedrito says "There now" and starts playing once more with his piece of cork, pardon, with his little car. The Sea and I look at each other in silence. We slowly move towards the...*
stick which Pedrito left behind, and we pick it up carefully. We analyze it in great detail. "It's a stick," I say. "It is," the Sea says. Without saying anything else, we take it with us. We run into Tacho as we're leaving. "And that?" he asks, pointing to Pedrito's stick which we had taken. "Mayan technology," the Sea responds. Trying to remember what Pedrito did I swing at the air with the stick. Suddenly the helicopter turned into a useless tin vulture, and the sky became golden and the clouds floated by like marzipan. [30]

The story is a parable which is meant to illustrate the power a piece of "Mayan technology" called FloodNet has to create a different type of reality. As Dominguez points out, the technical efficiency of the FloodNet is not so relevant when compared with its ability to set in motion a new "performative matrix," an abstract, invisible theater in which contending actors (the Mexican government, the hacktivists, the indigenous people of Chiapas, the cyber-police, and so forth) come to form a social and civil drama. [31] Thus, rather than being catalogued as a physical attack on a server, argues Dominguez, the virtual sit-in should be understood as the simulation of a physical attack that operates on a syntactical and semantic level. The latter refers to using "words as war" rather than "words for war" (a lesson Dominguez derives from the Zapatistas) to create and amplify the aforementioned drama through multiple media channels. The former affects the level of code, that is, the possibility of "reversing the logic of the system, in order to make it function in a manner it was never made to." [32] As a matter of fact, he continues:

EDT's Zapatista FloodNet used the logic of the network to upload 404 files (or Files Not Found) in order to upload political questions into the Mexican government servers during our 1998 electronic actions. Questions, like, is "justice.html" found on this server? The Mexican government server would respond: "justice is not found on this server." Here the logic of the system was used to create a counter critique within the structure of the government's servers, which also pointed to the real political conditions of Chiapas, Mexico. [33]
re-articulation of different aesthetic, political and technological codes within a multi-layered networked

narrative.

In fact, the 404 is not only a glitch in a chain of web signifiers, but also a known net.art gesture. In the
1990s, the artist duo Jodi developed a distinctive aesthetics out of machinic errors -- 404.jodi.org is a
renominated net.art project -- that was subsequently imitated and expanded by a number of artists. Since the
FloodNet window is divided in multiple frames each of which can be pointed to a different URL, the
aesthetics of the 404 is reframed here in a political context. In other words, the FloodNet functions as a
syntagma that links the discursivity of different communities -- the ability of forging tools proper to
hacking, the organizing competences of activism, and the formal explorations of net.art -- within a
narrative and performative framework.

As we have seen, ®TMark had given a syntagmatic and narrative expression to its database of subversive
projects by organizing them in the form of press releases, which had the twofold purpose of drawing media
attention and eliciting a reaction from corporate counterparts. The four narrative keys that formed
®TMark's fabulas, however, remained on the same plane of consistency, i.e. they could be recombined
only to form multiple variations of the same story, namely, the subversion of an irresponsible corporation.
In the case of hacktivism, the denotative function of networked narratives is equally simple, i.e. to expose
human rights abuses as well as the scarce accountability of supranational regulatory institution such as the
WTO and financial agencies such as the IMF. Their pragmatic function, however, is more nuanced and
open to further elaboration. In fact, the rapid development of software tools by a small but tight-knit
community of hacktivists bears witness to the their ability not only to tell multiple versions of the same
story, but also to retell it each time in a slightly different way by developing new tools that allow the
actors/participants to perform it differently over time.

In other words, while ®TMark's networked narratives are driven by the denotative function, that is, by the
storyteller's ability to make them enticing, hacktivist narratives are driven by the pragmatic function, as
they revolve more heavily on software, that is, on a tool that determines the way information (and people)
are concatenated. Thus if we go back to Lyotard's reflection on the pragmatic nature of oral narratives we
can see how the hacktivists who created and upgraded the FloodNet over time first learned how to listen to
a story (as related by the EDT, for instance); then they learned what role to play in it (by partaking in
virtual sit-ins); and eventually they learned how to tell their own stories (by sending out their own calls to
action, and developing their own piece of software).

Obviously, the difference between oral narratives and networked narratives lies in the fact that the latter
take place in a machinic environment such as the Internet, wherein natural language is not uttered into the
air, as it were, but it is transmitted as the speed of light, mediated by computer screens and graphical user
interfaces, and processed through layers and layers of code. This means that "the set of rules that constitute
the social bond," to stick to Lyotard's definition, have to be adapted here to an environment in which the
community is physically dislocated, and shares only information and fragments of time. Nevertheless oral
narratives and network narratives retain some common features, in that they both convey an ethics and a set
of values that resonate with the community of addressees.

This is clearly not the appropriate context to delve into the complex systems of beliefs articulated by oral
narratives. But in the case of hacktivism we can see how the network marries the hands-on approach, and
the principles of sharing and open access to information that are so dear to the hacker community, with
basic activist principles such as consensus-building, public exposure, and exerting pressure on the
counterpart. Thus, the pragmatic function of hacktivist narratives shall not be reduced to the ability of
developing a piece of software. Rather, those narratives are effective insofar as they reflect (and affect) a
variety of cultural elements, enabling the members of the community to understand what matters in their
own culture and play a role in it.

In this respect, Pedrito's story is exemplary insofar as it encompasses different facets of hacktivism, such as
the importance of technological innovation (the stick), the democratic nature of hacking (Pedrito is a kid),
the connection between the hacker and the community (the Zapatistas), and the emphasis placed upon
imagination and linguistic creativity rather than technological efficiency for its own sake (it is doubtful whether Pedrito's stick can really affect the helicopter, but his gesture can inspire others).

The Toywar

Certainly, not all networked art results from collaborations among different communities, nor is all of it expressed in a narrative form. As previously noted, networking as a social practice is affected by technological development as much as by a variety of economic, cultural, and political factors that are historic in character. In the 1990s, artists, activists, hackers, and entrepreneurs shared a dream: the great disintermediation of the Internet would wipe out encrusted powers and pave the way for a new way of living and working nurtured only by one's ideas, passions and skills.

Even if they were driven by different ethos and motivations, those subjects were ready to share information and cooperate by the very fact of being online. The spirit of networking of the 1990s was undoubtedly present in the artistic practices of the time, so that net.art (with a "dot" in the middle) "was both an Internet-based art and an art of networking." As I have shown elsewhere, besides being imbued with techno-utopianism, net.art that extends from the advent of the World Wide Web (1993) to the collapse of the NASDAQ (2001) was marked by three elements: the aesthetic exploration of machinic assemblages; the manipulation of information flows; and identity play.[34]

If "on the Internet nobody knows you are a dog," as a saying of the time went, then the Internet was not only an ideal ground on which to experiment with identity but also on which the concerted action of different subjectivities could possibly affect society at large. "I want to see if cyberspace is a base camp for some kinds of cyborgs, from which they might stage a coup on the rest of 'reality,'" wrote Sandy Stone in 1995, referring to Donna Haraway's myth of the cyborg as a powerful techno-political construct that could disarticulate Western dualisms such as nature/culture, mind/body, self/other, male/female, and the relative myths of origins.[35] And John Perry Barlow echoed her call in his famous Declaration of Independence of Cyberspace. "We are creating a world that all may enter without privilege or prejudice accorded by race, economic power, military force, or station of birth," wrote the co-founder of the EFF, reiterating the then popular belief in the Internet's ability to reverse socioeconomic, gender, and racial imbalances.[36]

Such techno-utopianism was, among other factors, generated by the simultaneous access to online writing by a variety of subjects whose composition went well beyond the Foucauldian definition of "what is an author" under the printing press paradigm.[37] As a matter of fact, beside writers and journalists, the notion of online authorship necessarily encompasses programmers, web designers, software engineers, compulsive socializers, and in general anybody who has the ability to shape and contribute to online communication. In this context, net.art functioned as an articulatory nexus between various professional skills, discursive spaces, and aesthetic and political sensibilities.

If the pragmatic knowledge of the oral storyteller handed down a set of rules that allowed for the reproduction of the social bond in a society whose specialization of labor was quite limited, in the hyper-specialized world of online communication those pragmatic rules are much more segmented and stratified. Knowing how to program requires a different set of skills than knowing how to grow an online community, and from knowing how to design an interface to a database or a social network. But the collaboration of those kinds of skills can recompose, at least in part, the unity of pragmatic knowledge shattered by the advanced specialization of labor in late capitalist societies.

My point is that when networking does not occur within a professional or institutional framework that provides individuals with clear rewards, then it is possible only through a narrative that has the power to resonate with different communities and sensibilities. Not incidentally, some of the more enticing net.art projects rely on an open narrative or script that encourages Internet users to perform it and expand it in a variety of ways.

The Toywar is a case in point. In 1999, the entire net.art network supported the art group etoy in their battle for maintaining the domain etoy.com against the repeated attempts of the online toy retailer eToys, one of
the more promising dotcoms of the time, to appropriate it for commercial purposes. The battle simultaneously took the form of an online game consisting of several coordinated and distributed interventions; a campaign for artistic freedom and against the commodification of the Internet; a successful promotional operation for etoy and the net.art community; and a financial disaster for eToys, which besides renouncing to the domain name, saw the value of its shares plummet during the Toywar, and eventually filed for bankruptcy at the height of the dotcom crash.[38] In other words, the polisemy of the Toywar was generated by the interaction (and attrition) of different narrative machines such as the net art/activist communities, the media, and the stock market that distributed the same story, but attached irreducible and often conflicting meanings to it.

By enrolling thousands of "toy.soldiers" through an originally designed web platform (now archived at toywar.etsy.com); creating an ad hoc software called "Virtual Shopper" for clogging the eToys server with bogus shopping requests; flooding the eToys web site with a prolonged virtual sit-in at the peak of the Christmas shopping season; disturbing the company's online trading forums by inviting eToys shareholders to sell; and compromising the company's image in the media, groups such as etoy, ®TMark, EDT, The Thing, Hell, and several others recombined activism, hacking, and art in a new performative matrix.

In other words, when these communities agreed on a unifying objective -- the plausible promise of regaining control of etoy.com -- they gave birth to a machinic narrative whose "engine" was a dramatic script (winning the Toywar by bringing the value of eToys' shares down to zero) that each participant could perform or execute according to her own skills, be they organizing, programming, writing press releases, web designing, or participating in online forums.

As a first step, etoy supporters were asked to register on the Toywar platform, where they were assigned a Playmobil-looking avatar equipped with virtual weapons. Once signed on, they could perform a series of actions such as recruiting other toy.soldiers, talking to journalists or write their own reports (media.toys), provide legal advice (lawyer.toys), upload soundtracks (dj.toys), gather intelligence on the enemy's moves (spy.toys), disseminate info.bombs, and so forth. Finally, all the 1798 toy.soldiers who participated in the Toywar were assigned "stocks" of the etoy.corporation, and after the victorious proclamation of the end of the war, purportedly invited to have a say in the company's future. [39]
Even though etoy did not effectively turn into an art group run by such a vast community of users, the group showed that the Toywar script was multi-layered and complex enough to be executed by different nodes of the network on the basis of its peculiar skills. If "to execute in the world of code means to turn the potential power of instructions into the actual power of behavior,"[40] as Jon Ippolito and Joline Blais point out, then in the Toywar a variety of linguistic, cultural, and machinic codes were executed by different subjectivities who "worked on the base of self-organized, multi-level intelligence possible only on the net."[41]

As we have seen, while @TMark's storytelling was mostly denotative (i.e. the stories were enticing and entertaining in and of themselves), the hacktivist community emphasized the pragmatics of storytelling, i.e. the ability to convey an ethics while envisioning new modes of interaction among the nodes of the network. Both @TMark and EDT, however, asked participants to perform actions, such as partaking in virtual sit-ins or correcting a corporate identity, that stayed within the boundaries of an adjustable, but ultimately rigid script. In other words, the denotative and pragmatic aspects of storytelling prevailed over the performative aspects, in that those narratives offered a limited spectrum of roles that could be taken on by collaborators and contributors.

In the case of the Toywar the higher complexity of the script and the richness of the metaphors employed encouraged the nodes of the network to undertake a wider range of initiatives. Such a complexity was due to the fact that the script was designed by a broad coalition of groups (including @TMark and the EDT) which provided a variety of insights and expertise. This high level of collaboration in the conception and design of the script guaranteed an almost perfect balance and continuous feedback among the denotative, performative, and pragmatic levels of the networked narrative, so that each intervention made the story more enticing, attracting in turn more public attention and participation.

**The Withering of Net.Art and the Emergence of the Web 2.0**
Paradoxically, if the *Toywar* demonstrated that net.art had "attained the power of global agency," (Reinhold Grether) the NASDAQ crash completely changed the scenario and the conditions of networking. As Giuseppe Marano and I have argued, the burst of the New Economy financial bubble of 2000 resulted not only in a temporary reduction of the resources that supported the emerging online culture, but also marked a crisis of techno-utopian faith in the transformative capacities of new media. Once the Internet is no longer an object of libidinal investment and becomes a medium among many, desires flow back towards the rich contradictions of sensuous reality. With the molecular diffusion of wireless and GPS technologies, laptops, PDAs and cell phones, the network stretches to integrate bodies, times, and places that were originally cut off from the online world.

The emergence of Web 2.0 and the explosion of locative media centrifuges the libidinal surplus that had been accumulated in the "rising" and utopian phase of networking -- when the Internet was both object and vector of societal desires -- and disperses it towards local realities and analog practices, which can now be concatenated onto a new plane of immanence. Thus the self-referential character of early networking practices withers, relegating the aesthetics of the machinic, identity play, and the manipulation of information flows to separate spheres.

In the art field, the dramatic shrinking of available resources draws a line between a few successful net.artists, whose careers are increasingly professionalized, and those who now have to rely on other sources of income to make a living. In this scenario, the art world played a significant role in dividing the good, reliable artists from those whose participation in the network had been playful, gratuitous, and ultimately provisional. In other words, the general consolidation and professionalization of the new media sector inevitably confines net art to one of the many niches of new media art. In this way, *net.art ceases to be an art of networking and loses, almost unnoticed, its "dot," becoming an internet-based art (net art) without being any longer an art of networking.*

To be sure, the weakening of the networking spirit that marked the "golden age" of net.art does not mean that networked art, as a participatory form of storytelling, withers away. On the contrary, the emergence of social media and Web 2.0 fosters, as Clay Shirky has shown, the ability to form self-organized groups and undertake collective action. Such a power, however, comes at a cost: the social intelligence of the Internet, and the new forms of sociality at a distance are exploited for profit-making by the corporations that make social media available in the public domain.

Let us finally consider the case of *Google Will Eat Itself* (2005) and *Amazon Noir* (2007) -- two collaborations between the Austrian duo Ubermorgen, Paolo Cirio, and Alessandro Ludovico -- that rely on basic narrative scripts.

*Google Will Eat Itself* (*GWEI*) can be described as an operation of self-cannibalism of the best known search engine. Bloggers and web administrators are invited to reinvest the revenues generated by the Google AdSense program from the Internet traffic on their web sites in shares of a public company, Google to The People LtD. Such revenues are increased through semi-intelligent bots that multiply the value of each click on Ubermorgen's web site by triggering the AdSense ads placed on a network of invisible web sites. The long-term goal is to accumulate enough capital to assume control of the corporation over a certain period of time (ironically quantified in thousands of years) and eventually release its algorithms in the public domain.

In the case of *Amazon Noir* the same group of authors announced the development of a piece of software that could reproduce the digital image of any book available in the Amazon database through the software Search Inside the Book. While Amazon allows users to visualize only a preview of the text, the bots developed by Paolo Cirio executed thousands of requests per book, reassembling the complete image in PDF format. Anticipating the legal response of the company, the crew presented the entire operation as a crime story, concluded with an out-of-court settlement in which the bad guys (Ubermorgen and accomplices) caved in and eventually decided to sell the technology to the good guys (Amazon) for an undisclosed sum.
Built upon basic dramatic plots, projects such as GWEI and Amazon Noir do not really leverage social software nor aim at activating a network of collaborators. At the same time, the network exists here as the main subject of the narrative, the battleground wherein contending forces (the users and the corporations of Web 2.0) struggle for the appropriation of value or to retain it in the public domain.

In the age of content generated by networked publics, corporations extract a profit from ordinary social activities such as chatting, linking, commenting, searching, tagging, posting, and so forth. On the one hand, the increasing automation and integration of these activities through social media and social software democratizes access to story-telling. As Shirky points out, the lowering costs of information sharing facilitates the spontaneous formation of groups, collaborative production, and collective action. Thus, once you have a plausible promise and the appropriate tools to fulfill it, a group can more easily agree on a set of rules whereby individual users can define mutual expectations (Shirky calls it the "bargain"), and begin working together.[46]

On the other hand, the fact that those activities are largely made possible by commercial services such as Google, Digg, Flickr, YouTube, Facebook, Twitter, and others redefines the notion of the public sphere. As is known, Habermas defined the public sphere as an institutionalized arena distinct both from the state and the market, or in Nancy Fraser's words "a theater for debating and deliberating rather than for buying and selling."[47] The fact that in the age of Web 2.0 those two spaces are increasingly indistinguishable -- in that discussing and deliberating online are immediately economic activities -- is a question that should not be underestimated by the emerging forms of networked art.

If the 1990s enchantment with the Internet had had the effect of bringing together artists, hackers, and activists (as well as former visionaries of the counterculture and venture capitalists), the challenge for the networked art of the new millennium is how to ensure that the new forms of collaboration take into account the materiality of their practices. While the storyteller of Web 2.0 can activate a network of potential collaborators with relative ease, the software "architecture of participation" (as Tim O'Reilly has called the systems designed for user contribution) that allows her to do so is largely in corporate hands.[48] Thus the lowering threshold to online participatory culture has a drawback, namely a standardization of the modes of interaction, without which online social activities would be hardly profitable.

On the other hand though, as we just said, the sharing environments created by the Web 2.0 make story-telling available to a plurality of subjects who do not have to concern themselves with the level of code. This does not mean, however, that the pragmatic aspect of networked storytelling loses importance. Even if in a networked environment code has undoubtedly a pragmatic function in that it determines the architecture of social relationships, the move towards an increasing usability of social tools such as weblogs and social networks, D-I-Y web-based and cell phone applications, renders natural language increasingly performative and pragmatic.

In other words, when participation becomes generalized and imperative, only those narratives which truly matter to a community of users come to the foreground and tend to stay. Thus, now more than ever, designing stories that are simultaneously enticing, participatory, and ethical is momentous and necessary. In this respect, the wealth of knowledge and the affective spaces which emerged in the heydays of net.art from the recombination of aesthetical, political, and technological sensibilities is something should not be dissipated, but rather recoded and distributed on new planes of immanence.

ENDNOTES


[3] Ibid.


[8] Jean Francois Lyotard, The Postmodern Condition: A Report on Knowledge, (trans. Geoff Bennington and Brian Massumi), Minneapolis: University of Minnesota Press, 1984, p. 21. It must be noted that for Lyotard (as well as other philosophers such as Bruno Latour) it is the emergence of modern science, with its claims to neutrality and objectivity, to set apart denotative knowledge "from the language games that combine to form the social bond." (25) Here Lyotard relies on Wittgenstein's classification of different modes of discourse in terms of rules specifying their properties, to argue that the language game of modern science pretends to answer only to the criterion of truth. This sets it apart from the realm of politics, whose language game answers to the criterion of justice, and whose legitimacy rests with the people's consensus. This separation between the objectively observable laws of nature (denotative knowledge) and the subjective mode of deliberation through which society agrees on what is just and what is not (pragmatic knowledge), is not only a cornerstone of modernity, but also what deprives narratives of the exemplary and normative character they had in oral culture. In other words, in modern times narratives are relegated to the realm of fiction, i.e. to a kind of knowledge that by definition cannot be used to observe reality in an accurate manner because it relies on subjective human qualities such as imagination and emotions, which interfere with a rational mode of analysis. According to Lyotard, the emergence of "postmodern science" changes this epistemic model. With its search for instabilities, alternative methods, and ways of reasoning, postmodern science is for Lyotard an "open system" in which imagination plays a key role and "a statement becomes relevant if it 'generates ideas,' that is, if it generates other statements and other game rules." (64)

In other words, "the striking feature of postmodern scientific knowledge is that the discourse on the rules that validate it is (explicitly) immanent to it." (54) In the reminder of this chapter I will try to show how this poietic element is also present in some networked narratives that generate new ideas and statements in the course of their making.


[10] "Actually there is no story for which the question as to how it is continued would not be legitimate," writes Benjamin, referring to the oral tradition. "The novelist, on the other hand, cannot hope to take the smallest step beyond that limit at which he invites the reader to a divinatory realization of the meaning of life by writing 'Finis.'...The novel is significant, therefore, not because it presents someone else's fate to us, perhaps didactically, but because this stranger's fate [the character's fate] by virtue of the flame which consumes it yields us the warmth which we never draw from our own fate. What draws the reader to the novel is the hope of warming his shivering life with a death he reads about.' Walter Benjamin, "The Storyteller: Reflections on the Works of Nikolai Leskov" in Illuminations, (trans. by Harry Zorn), New York: Shocken Books, 1968, pp. 100-101.


[12] Some may argue that these promises have been fulfilled by games, with their vast interactions and sense of openness. But a gamer can hardly write the rules of the game and become the game designer
She can win the game or curse God, but she can rarely modify the algorithm that sets the rules of the game.


[14] Ibid.


[17] Ibid., p. 231.

[18] There is a simple way to verify this statement: ask anyone who is a non-specialist if she or he can name three works of hyperfiction from the last decade; then run the same question on films and novels.


[20] Several net.art projects such as Vuk Cosic's "Documenta Done", 0100101110101101.org's "Clones", and ®TMark's spoof web sites are simple operations of recontextualization based on the use of offline browsers.


[23] Ibid.

[24] Ibid.


[26] See http://challenge.theyesmen.org


[31] Ibid.


[33] Ibid.

[34] Cf. Marco Deseriis and Giuseppe Marano, Net.Art, cit.


[47] Nancy Fraser, "Rethinking the Public Sphere: A Contribution to the Critique of Actually Existing Democracy" in Francis Backer, Peter Hume, Margaret Iversen (eds.) Postmodernism and the Re-reading of Modernity, Manchester University Press, 1992, p. 198.