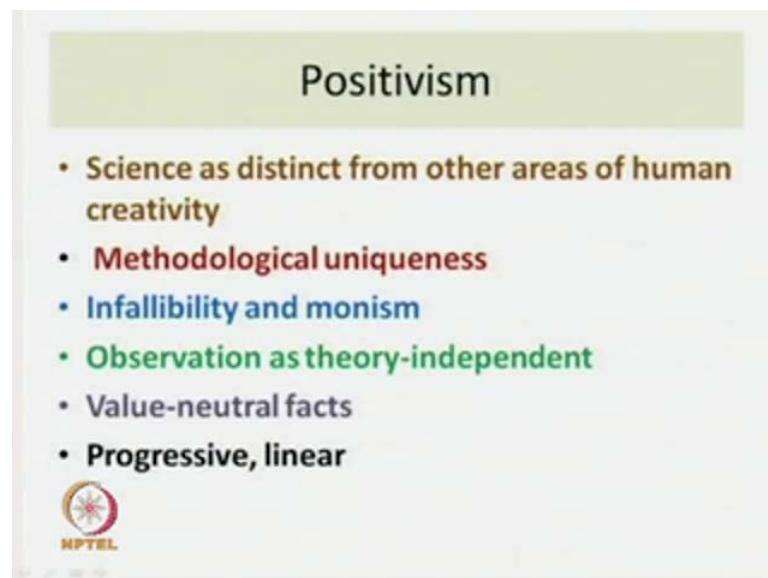


**Cultural Studies**  
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**Module No: # 04**  
**Culture Industries, Cultural Forms**  
**Lecture No: # 07**  
**Cyberculture**

Welcome to NPTEL, the National Programme on Technology Enhanced Learning; a series of video courses being brought to you by the Indian Institutes of Technology, and the Indian Institute of Science. Our course is entitled cultural studies, and we are at the moment in module 4, and we will be looking at a very contemporary and a very important topic, namely Cyberculture, but as always let us do a recap of what we did in the last lecture, and also see how this current lecture ties in with some of the things we have said before.

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Well, you will recall that the last lecture was devoted to science technology and culture; and we said that science technology and culture takes off from what science technology and society studies had given us. We also talked about, you know, how philosophy of

science, important figures like Karl Popper and Thomas Kuhn, and their interrogation of science had to tell us and the way, in which it contributed to the development also of **of** the cultural studies investigation of science and technology; we first, please look at the slide, we first saw that even cultural studies as a methodology as a school of thought it... It was also a reaction among other things that its origins were to be found also among other things in the reaction to positivism; the positivistic school where, you know, some of, we found that some of the characteristics of positivism where science as distinct from other areas of human creativity; science as being infallible; science is having a methodological uniqueness, which too was infallible; science being value neutral and observation as theory dependent etcetera.

So, we saw the positivism carved out or you know sure or give such a picture of science that science was something removed from human beings. But in the humanities, we know that any knowledge system, be it is science with all its findings, all this finding or its findings that definitely work, still or you know, science is still a domain that is that has some creator by human being. So, it is an important as a cultural activity that we should look at science and the work of scientists.

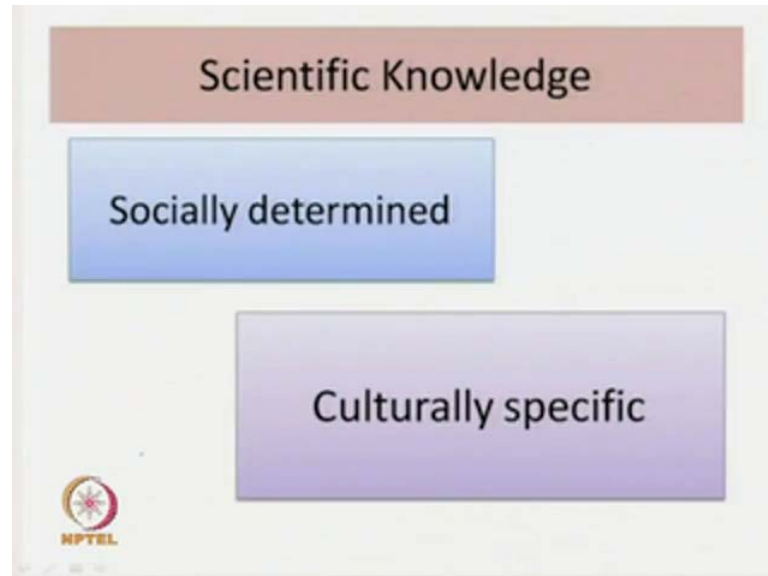
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Then, this is the point that I had just made that the origins of cultural studies whose really an insurgent sociology against functionalism and positivism and also a critique of

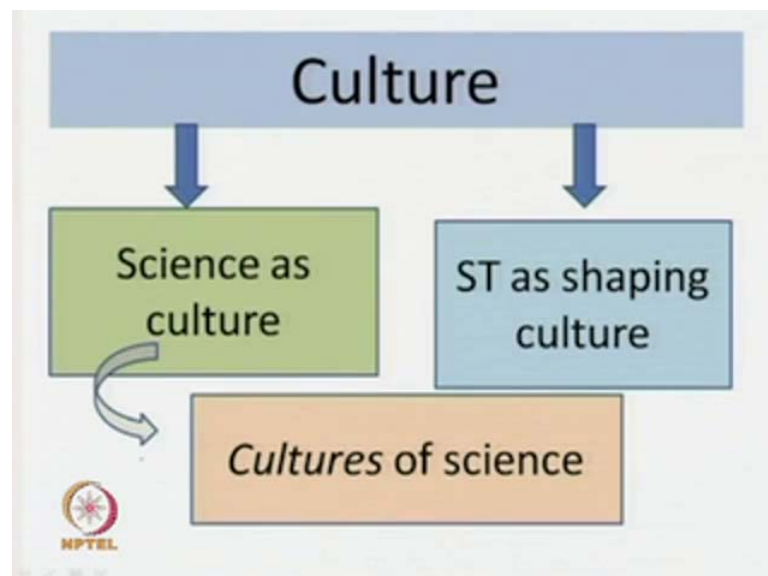
instrumental rationality. The findings of science leading to techno science tended to be in quite instrumental in its reason.

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Then, we saw that scientific **study** cultural studies of science and technology is underlined by these two aspects or these two propositions, which are not different from the social studies of science and technology, but it is something that is shared with social studies of science and technology, these being the fact of Scientific knowledge to be socially determined and culturally specific.

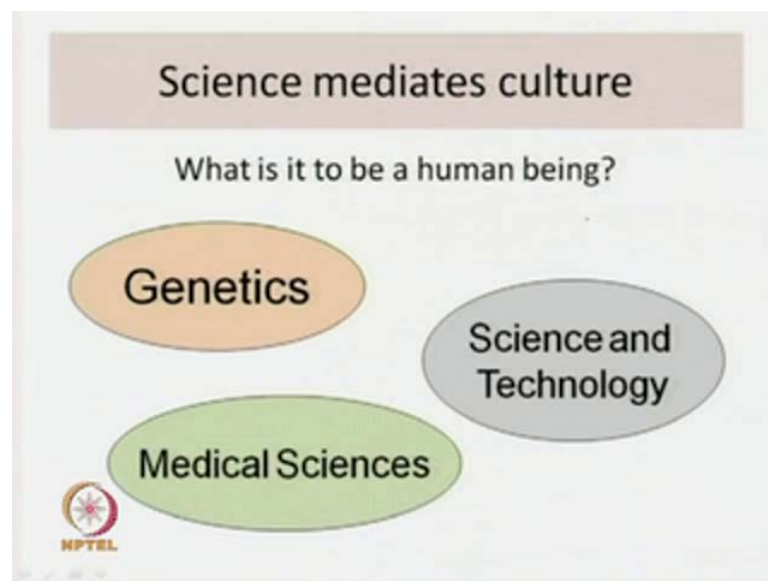
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Then, therefore we said that as far as cultural and science and culture are concerned, science was seen as culture and also which led to the study of the cultures of science; by cultures of science, we mean the practices of the scientists and the scientific community; we also saw science and technology as shaping culture.

It was not just one way round that science and technology were socially determined, science and technology also shaped culture, and if you go back to the last lecture, we remember, we gave the example of Isaac Newton's principia, and how it contributed to British mercantile capitalism and in, you know and at **at** the same time was informed by, you know, British mercantile capitalism **right**; you also saw the example of colonialism - colonial science, and how colonial science **was not** is not something that we study as, you know, science that is not removed from the bigger or the larger colonial enterprise, and we saw that **it had** it should be seen as related to race, **to race** to racism and relation to the existent knowledge at the time etcetera.

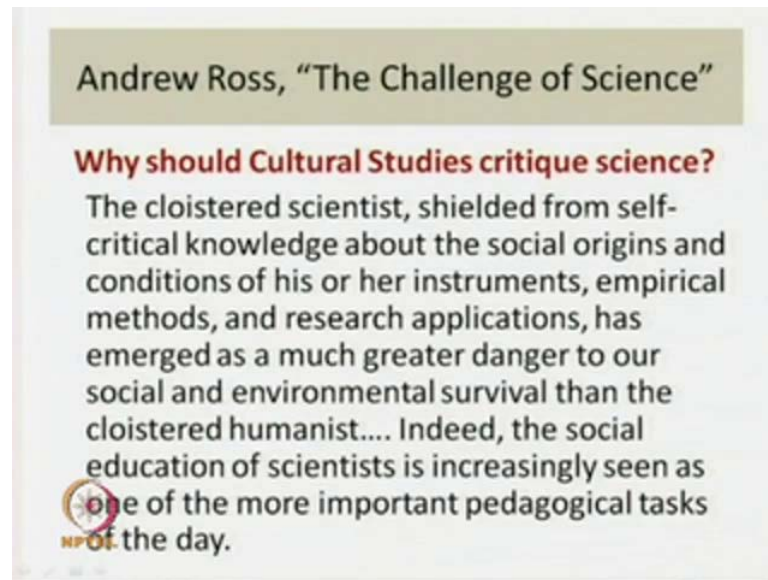
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Then finally, you know, culture studies as you know by now, focuses on how cultural practices impact or change, you know change, subjectivity and identity, and in that since, if we ask a question regarding subjectivity; like what is it to be a human being? You know, how do you define a human being? We find that increasingly, you know, the answers come from domains of science, like genetics, science and technology in general and the medical sciences; today the definition of the human being is also extended to

embrace the side work; and today's lecture in that way is related to the last lecture, in the sense that it looks at cyber culture and it looks at, you know, the cyber or the human being, what happens to the human being? How identities and subjectivities change as human beings begin to use technology and to extend their abilities through technology?

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Now, this was a slide, which I had missed in the last lecture, because there was... There was not much time, and I would like to end this recap by quoting from the challenge of science by Andrew Ross, and he asks where Andrew Ross asks his question, why should cultural studies critique science? What is a need for cultural studies to investigate science at all? And then, this is **this** beautiful answer he gives, and I am reading from Ross's essay, the cloister scientist, shielded from self-critical knowledge about the social origins and conditions of his or her instruments, empirical methods and research applications, has emerged as a much greater danger **to** our social and environmental survival than the cloistered humanist. Indeed, the social education of scientists is increasingly seen as one of the more **more** important pedagogical tasks of the day.

Now, you may as scientist, as budding technologies, you may think that this is quite an, you know, unkind gut to speak, you know, to talk about scientist in this way; but well I may say this is perhaps the reason, why we have humanities in social sciences in the IITs by and in different, you know, institution in the country

And abroad, where it is part and parcel of the curricular, you know, to be taught to engineering students, this is the reason; we run the risk, of becoming a sort of a technological talents, if you will, where we **where we** give so much importance to science, so much importance to technology, that we forget **right**, we forget to look reflexively in at our own work.

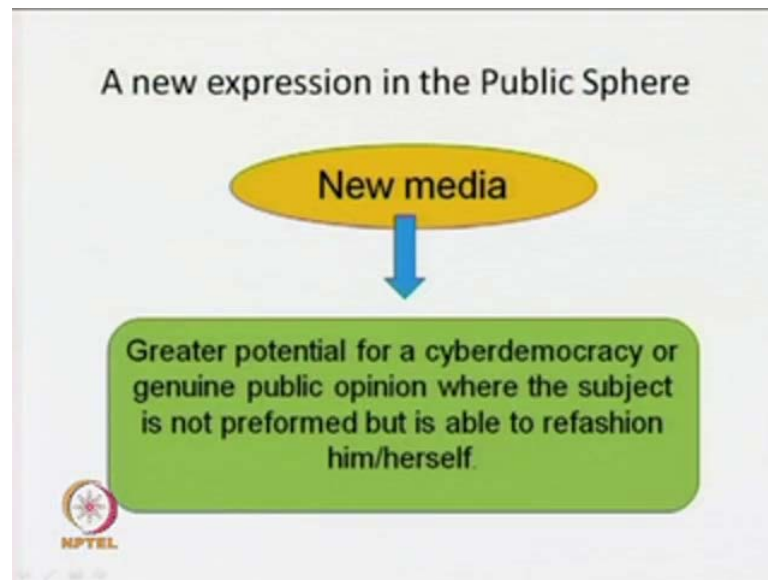
**As he say** as he says here to, you know, this applies also to, you know cyber culture and that is why, you know, this is, this slide is the link between what we are going to do today, and we wanted in the last lecture. So, if you do not have, you know an idea of the social origins of your methods; however, empirical they are; if you are not aware of where your research methods come from, and if you if you think that **they are** these are isolated from human life, from social conditions and you are entirely wrong.

And that is why it is important for us to, you know, to dwell upon areas like science technology and society, science technology and culture on cyber culture, new media etcetera. So, that even as we use **right**, even **if you** as we use science and technology, we are we should be aware that we know these are not greater than us.

We are the ones, who have greater than, and we have we are the ones, who have greater than using certain methods; now, if you are, you know blindly supportive of a method, if method becomes a deity to you, then even science itself cannot progress, because methods have to be improvised, methods have to be improved, methods have to be queried, and you will also know that the best of scientists have done this.

And that is why, it is said that he, who is not a philosopher, also cannot be a true scientist **right**. So, you look at so many great scientists in the world, and you also look at the ones, who have like Isenberg for instance, and others like Stephen Hawking **right**, who are today not simply, you know well read and who are not **not** simply masters in their fields, but have also talked about science from the philosophical point of view and looked at their own methods **right**.

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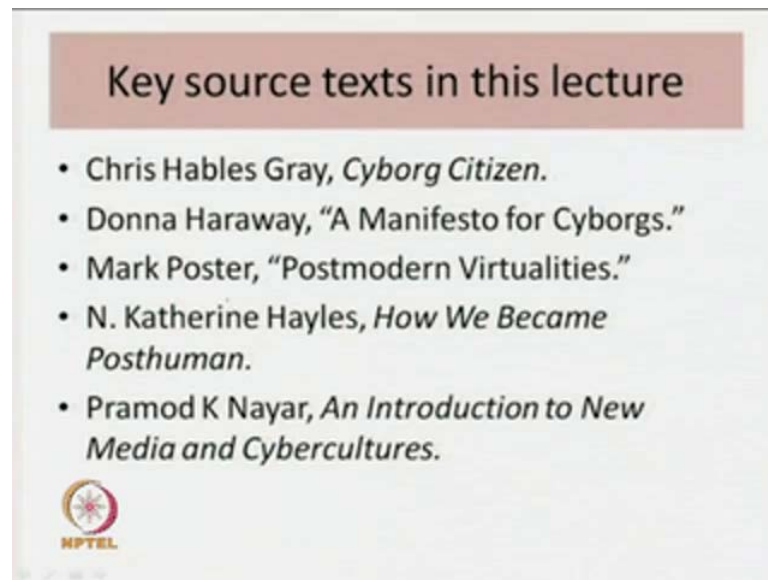
So, this lecture also ties in with a lecture, which I had given, you know, all in which **which** forms, I think the fourth or fifth lecture in this module, which was on the new media.

And the new media, which you say, you know, to do with the digital technology and which we differ, you know, which is differentiated from the old media, by the fact the digital media should be in, you know obviously, the digital medium, but it has not to be only stored, but it has to be distributed and exhibited using the new, you know using the digital form **right**.

So, in the new media also we find that there is a greater potential for a cyber democracy or genuine public opinion, where the subject is not preformed, but is able to refashion himself or herself. So, new media and cyber culture are often talked about together, if you recall in the lecture on new media, we made a difference, a differentiation between new media and **and** cyber culture.

And today we are going to look at cyber culture after having seen what new media is, and we are going to talk about the cultural studies exploration of cyber media.

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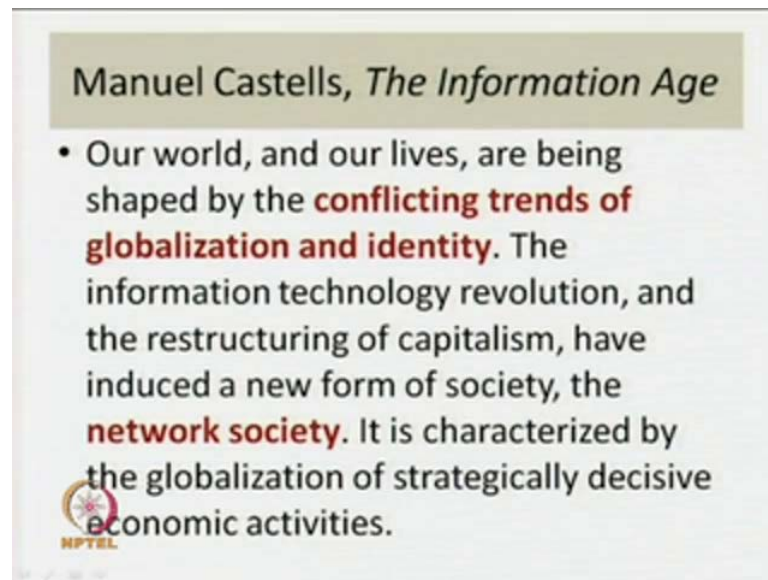
So, the topic of discussion today is cyber culture, and let me declare the key textsource texts in this lecture; I shall beat timestaking out extracts from, you know these lecture most of the points I shall be talking about here are gleaned from these **these** essays and books.

So **So**, we have Chris gray or Hables Gray's *Cyborg Citizen*; DonnaHaraway's a manifesto for Cyborgs; Mark Poster's *Postmodern Virualities*, and KatherineHayles's *How We Became Posthuman*, and Pramod K Nayar's *An Introduction to New Media and cultural studies*.

Now obviously, these by no means are the only books as I **I** have always said in my lectures, these are not the only books with which you can build the discourse of cyber culture, you have **you have** very, you know, you have a very **very** well known, and you know, well known books there are text books, we have cyber culture, cyber cultures readers for instance, which you may go, and you know, read if you are interested in this field, but for the purposes of this lecture, in order also to show the variety of thinking within these... Within this domain these are the books and essays that I have brought for you fine.



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**Manuel Castells, *The Information Age***

- Our world, and our lives, are being shaped by the **conflicting trends of globalization and identity**. The information technology revolution, and the restructuring of capitalism, have induced a new form of society, the **network society**. It is characterized by the globalization of strategically decisive economic activities.

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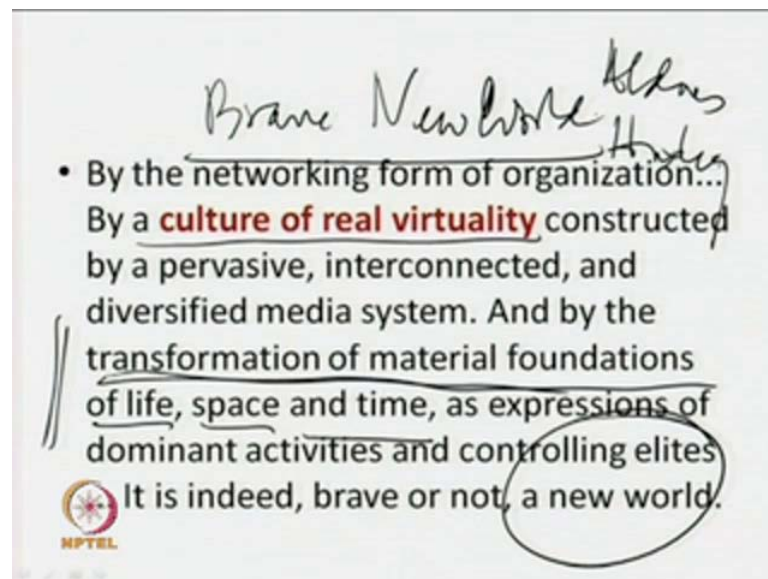
So, we are now going to read from an important trilogy, the trilogy is by Manuel Castells, and the trilogy - the three **three** works together are called the information age. This is a landmark trilogy in the study of information in the study, you know of network societies. In fact, the first volume of this trilogy is entitled rise of the network society, from which I am taking this quotation, simply recalls it is... It has been so beautifully put and it you know, it is a fitting epigraph, you know to our lecture; fine.

So, I am reading from Manuel Castells, the information age; our world and our lives are being shaped by the conflicting trends of globalization and identity. The information technology revolution and the restructuring of capitalism have induced a new form of society called the network society. It is characterized by the globalization or strategically decisive economic activities; now the whole concept of the network society, the way society is radically or connected or networked, you know, in a radically new way **right**, the way communication, the communication revolution has sort of created this network society, has not to be understood only in technological terms.

And Castells has therefore, immediately, you know appointed to the fact, that the network society is characterized by a by globalization of strategically decisive economic activities; and the information technology revolution has led to a restructuring of capitalism **right**.

So, in these kinds of books, important books you find, you know the sociologists and culture scientists, drawing these connections between new revolution, which is the information technology revolution, which is still within the capitalized format, within the capitalized modes of production, but also agreeing to know that there is a restructuring of such you know of the whole capitalist order, and that it is strategically it is related to economic activities.

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Then, he goes on to say by the networking form of organization, by the culture, this is very famous phrase by Marshall McLuhan, a culture of real virtuality; now it may seem to be you know paradigms, what do you mean by real **when real** virtuality? When real and virtual are opposites, the real is usually, you know consider in opposition to the virtual, but he says here, there is a culture of actual virtuality; and **which some** which is something, we cannot ignore, and he says by a cultural real virtuality constructed by a pervasive interconnected and diversified media system.

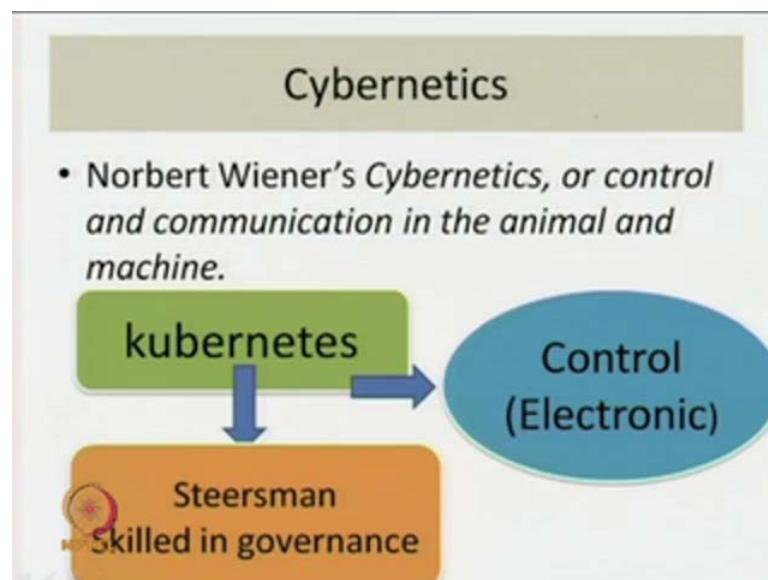
And by the transformation of material foundations of, this is important transformation, this is where the culture studies interrogation comes in.

That this kind of a culture **right**, a way of life of you know actual virtuality or real virtuality, is been formed by the transformation of material foundations of life, space and time, as expressions of dominant activities and controlling elites. It is indeed, brave or not, a new world. So, we need to look at new media and cyber cultures, as at the same

time, you know, being a continuation and being just newer forms **right** of the capitalist order, though quite radical, radically; and at the same time, as manualcastles says here, of something that that is creating of new world brave or not.

Now, this obviously, alludes to a book some of you are, you know, I am sure you have read this book, the name of the book is Brave New world by Aldus Huxley. So, he says whether it is the kind of world that is been shown by, you know, Aldus Huxley in his work the brave new world. We have to understand that we are indeed, in a new world with the coming in of the network society.

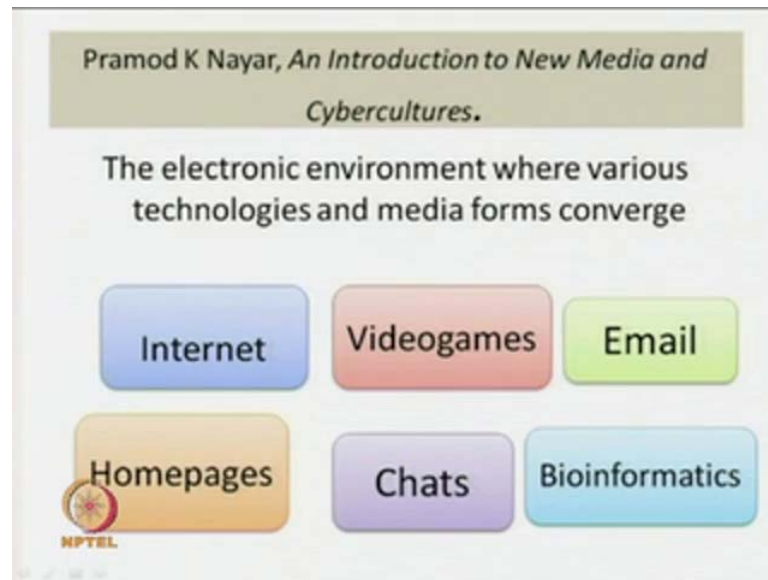
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Then fine, we are talking about cyber culture, it is important for us to you know, to first talk about the word what the word cyber means **right**. We talk about cyber pang, cyber fashion, cyber culture, you know, cybernetics. So where does the word the cyber comes from? The word cyber is actually a prefix; it is a prefix from the Greek word kubernetes, this is the word kubernetes, which means steersman or somebody, who is skilled in steering or in governance; in the sense it also means a leader, and this steering and this governing is through control, which is of course, done in any kind of steering or governance, but this is through electronic control; remember again, this term cyberis actually a prefix and comes from the Greek word kubernetes; Cybernetics comes from the Greek word kubernetes, meaning steersman or somebody, who is skilled in steering and governance; and it means control particularly in the electronic form.

It was first used, if you look at the slide by Norbert Wiener in one office, I think it was in the 1940s; if I am not mistaken Norbert Wiener's cybernetics or control and communication in the animal and machine. So, this word became very popular after Norbert Wiener's work.

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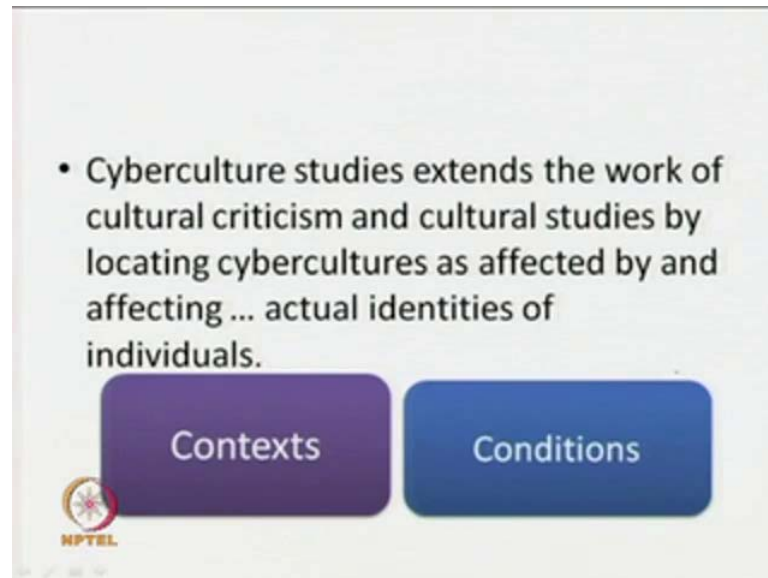
So, well we are now going to look at, you know, the electronic environment, so to speak and the various components of cyber culture, and we are going to see, you know look at and the way from Pramod Nayar, you know gives us these areas in this book, an introduction to new media and cyber cultures.

Another book, which is very useful, extremely readable, and I would not hesitate to you know, to suggest that you read this book. So the electronic environment, where various technologies and media forms converge, is what is known as cyber culture; and part of with is also media culture **sorry** new media, and these are the internet, videogames, email homepages, online chats, bio-informatics etcetera.

So, this essentially again is, again **if use** you can understand why castles use the word network society; all these are to do with networking; even videogames are what you play, often with people on a network **right**.

So, this basically the electronic environment, a new environment, definitely that we are taking about and we shall see, what the cultural implications are of this new environment **right**.

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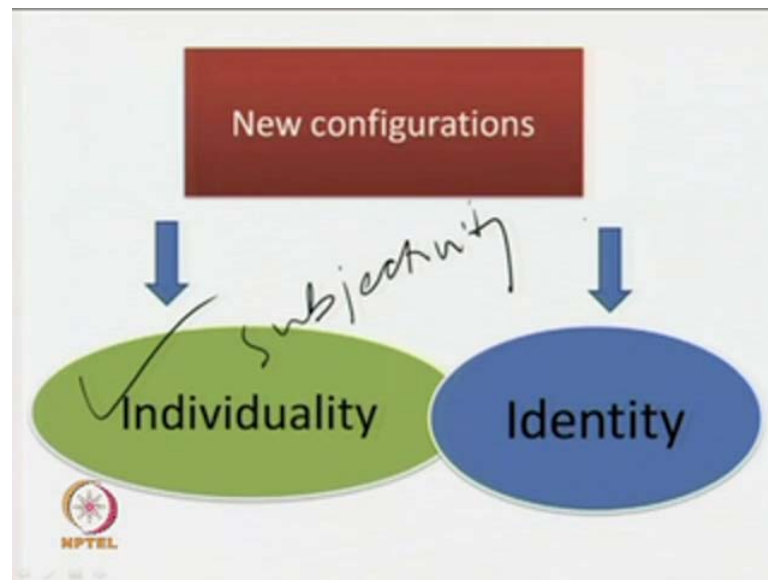


So, cyber culture studies, according to Nayar, extends the work of cultural criticism and cultural studies **right** this is important; it extends the work of cultural criticism and cultural studies by locating cyber cultures as affected by and affecting individual identities of individuals, **sorry** actual identities of individuals **right**.

So, the work as I said, the work **work** on identity and subjectivity **right** to, you know, you could say two of the most important words among along with words, like discourse, power and representation too also very important words, in you know, as far as a tools of cultural studies are concerned, and he says that cyber culture coming in of cyber culture has extended the work. So to speak of, cultural studies as far as identity formation is concerned.

And the actual identities of individuals are played out, are related to the contacts in which they develop, and conditions under which they are formed.

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So, therefore, we may say that there are new configurations in cyber culture, these new configurations make, we said to develop around the concept of individuality and identity. Individuality is never the same with cyber culture, once cyber culture comes in to the picture, what it means to be an individual. So, in this way, you can still, we can also say that this, and you replace this with the word subjectivity; and we saw that subjectivity and identity are two of the most important words in cultural studies.

So, **in the what is in the**, what is an individual **right**? Does an individual remain **excuse me** an isolated individual? Once he or she is in a network society; how is his or her subjectivity changed, reformed, reconstructive or reconfigured as if you like by once one is in the cyber space or once **once** one is in cyber culture.

So, individuality and ideas of it go through radical changes, as also we find there are new configurations, as far as identity is concerned.

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So, what are the key issues; therefore, if you are doing a cultural studies analysis of cyber culture, the culture or the way of life of you know, in **in** the electronic environment let us put it that way cyber culture, would be called the way of life and the practices, including in identity and subjectivity formation, including representation etcetera., in an electronic environment **right**.

So, there are many key issues, and those of you are, you know, not it is, not at the **in an** under graduate level, those of you who are, **who** listening to me, who are looking at this video, who are also students, you know at higher levels, you can also, if you **if you if you** wish to work, and do you research, and cyber culture can look at many of these aspects.

But even at the under graduates level, it is important for us to know the scope **right**, the scope of cultural studies analysis of cyber culture or cyber culture criticism; fine. Among these are let me read them out globalization, techno capitalism, cyber culture these are all given in Promod Nayar's book; materiality and corporeality, the digital divide, E governance, civil society, identity and subjectivity, race and class, genders and sexualities.



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This could also include virtual citizenship and human rights; for instance, you know what kind of human rights can you **you** know, do we reformulate or how **how** is the whole idea of human rights reformulated, once we are in you know in a cyber world or once we are cyborgs, that is once we use prosthetics, once we use say for instance, once we **we** are implanted with a chip **right**.

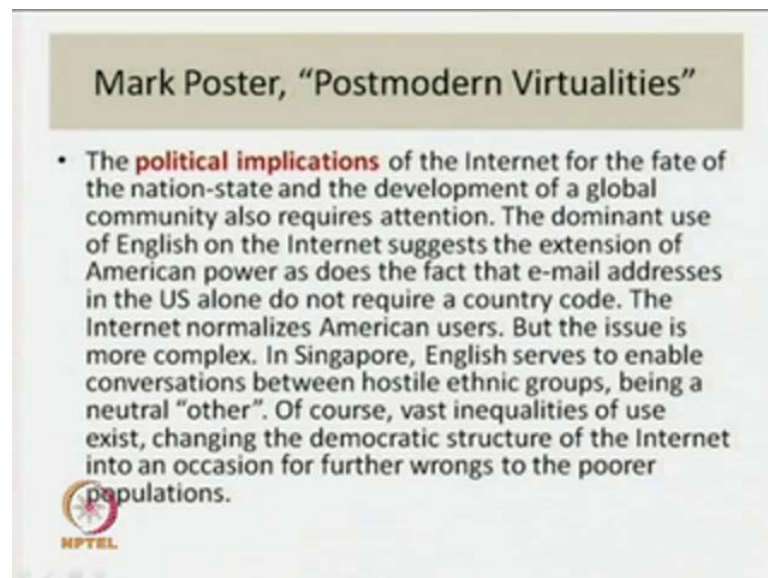
In that case, are we **are we** human? I have **I have** heard we say that we are human, and if we are partly with technology, and we are being aided by technology, and we are with what we call augmented technology, technology that augments our sense organs or you know, sense or you know, our senses; in that case the human rights that we are talking about today, are they going to remain the same **right**. So, we also have, you know in books like cyborg citizen; you know talking about new kind of rights, new kind of manufactures and understandings of, newer understandings of what human rights may be the whole idea of participatory, evaluation and not simply natural evaluation, and you know, these are new terms that have come up.

So, what does it mean to be a virtual citizen? What are the rules, you know, in virtual citizenship? Then how is the public sphere **right** you know, that the public sphere is a term that we have from the philosopher Habermas **right**; and we did elutriated one of previous lectures. So, how is the public sphere reconfigured **right**? When one is in a networked plane **right**, one is in an **in an** electronic environment.




Then, there are issues definitely of eroticism of sexuality, which you call techno eroticism of cyber sex; then techno addiction, my addiction to technology right, prosthetics and also these new movements; this is very important from both of philosophical and cultural studies point of view, this new epistemologies, and this movements that have emerged namely: post industrialism, post humanism and postmodernism, and how these relate, how this relate to cyber culture as a whole? So, you see in these two slides, we find that they are indeed so many almost 20, more than 20 areas that we have delineated; of course, we are going to talk about all of these it is well, you know impossible to do so, but we have seen, you know the enormous scope of where to apply critical tools from cultural studies as we study, you know cyber culture.

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Mark Poster, "Postmodern Virtualities"

- The **political implications** of the Internet for the fate of the nation-state and the development of a global community also requires attention. The dominant use of English on the Internet suggests the extension of American power as does the fact that e-mail addresses in the US alone do not require a country code. The Internet normalizes American users. But the issue is more complex. In Singapore, English serves to enable conversations between hostile ethnic groups, being a neutral "other". Of course, vast inequalities of use exist, changing the democratic structure of the Internet into an occasion for further wrongs to the poorer populations.

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Now, talking about talking about race, talking about inequality in cyber space or you know, in in virtual reality, we have, we may refer to an important essay by Mark Poster, which also one of our key source texts Mark Postmodern's virtualities; and I just want to read here, from here, to show how critics like, you know, culture critics like Mark Poster working on the, you know interface between virtuality and Postmodernism, Post humanism etcetera; how they have also brought an issue of, you know inequality among different nations for instance right.

Let us look at, what he has to say **right**? The political implications of the internet, for the fate of the nation state, and the development of a global community also require attention that is in cultural studies.

The dominant use of English, look at this, the dominant use of English on the internet suggests the extension of American power; now just a while ago, we said that they you know cyber democracy has enormous potential even in the new media, my lecture on in the new media, discussion in new media, we found that the internet has been celebrated by so many scholars so many, you know, members of the intelligence, say as having invents potential for cyber democracy **right**.

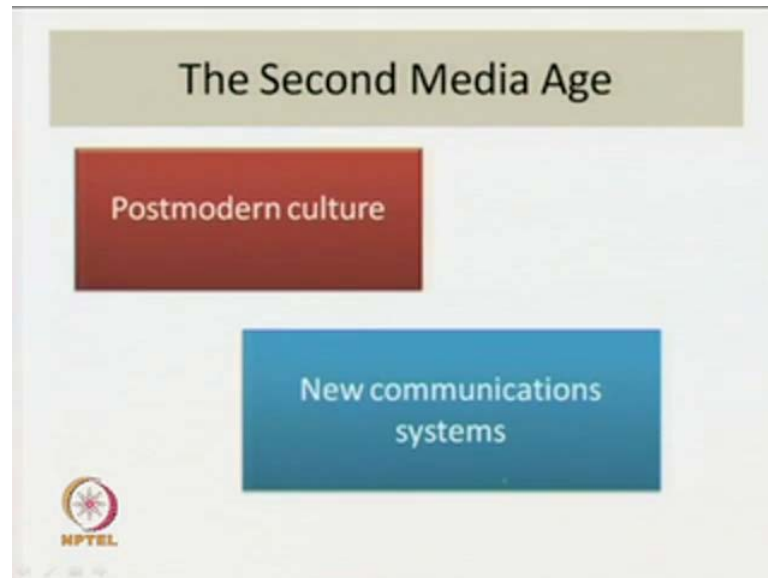
But scholars like poster, also point to another aspect of it, and he says that we cannot deny the fact that English is the dominant language on the internet, and he says a suggest the extension of American power, and he points to an important fact as he says, at least at the time when he was writing this essay, the fact that email addresses in the US alone do not require a country code, as a person not from, you know, the from **from** computer sciences or electronics I cannot tell exactly how this is done, but **but** suffice for us to follow mark poster is saying that you know, even as we talk about **talk about**, you know, the **the** tremendous democracy potential of the electronic environment, they still an inequality in the balance of power.

So, that the internet normalizes American users; they puts them keep, makes them a norm, normalizes American users, but the issue is more complex; in Singapore, English serves to enable conversations between hostile ethnic groups, on the other hand, **we should also** we can also say that there are, you know, even without the, you know, people who started this, you know, people who gave us the internet, computer scientist gave us the internet for instance, even they could not possibly have sort, you know, of **of** thinks like this for instance, as he says, in Singapore, English serves to enable conversations between hostile ethnic groups, but then again Poster says that still does not do away with the fact that vast inequalities of use exist, changing the democratic structure of the internet into an occasion for what says very strongly further wrongs to the poorer nations, fine.

This is just one example of, you know, all these things that we have talked about for instance race, and ethnicities or nations states for instance, where the critic of **of** cyber

culture could be applied, and the mark posteryou know extracts, extracts from Mark Posters essay, just one example of the way, these complexitiesare to before grounded by cultural studies scholarsright.

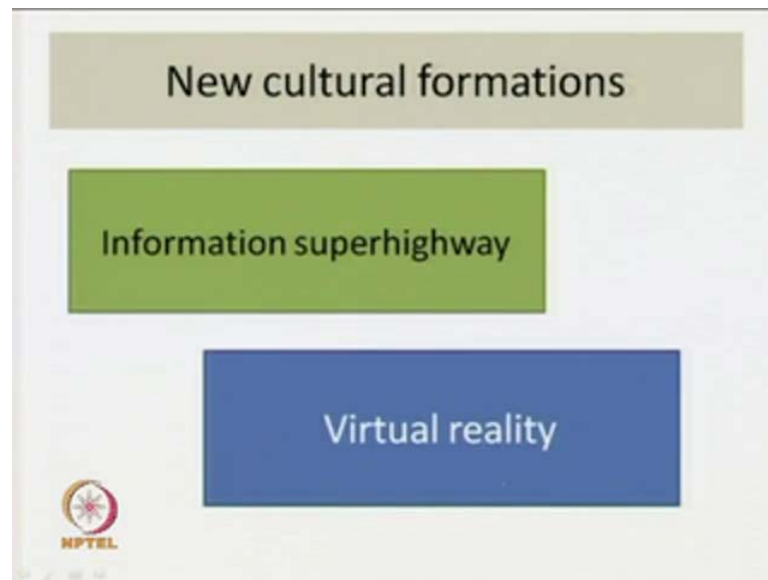
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Sowell, whatwhat are the other terms by which we describes cyber culture;it is also known as second media age, this is a point where we also came across in a new media lecture;it is a second media, because it is radically different in, you know,in certain configuration in distribution, particularly in distribution, anda exhibitionfrom the old right;it is the second media age also very importantly, in the sense that the first media age of radio, television, of books right, of filmwere associated, if you rememberassociated with mass culture,with mass culture andwith modernism right. So, if the all the media,sorry that is the first media age was related to or was an outcome of modernism, this new second media age of electronic environmentsof network society,this environment is a result ofPostmodern culture,as it also contributes to the building of Postmodernism.

And therefore, it is characterized by two things, which is Postmoderncultureway of life and new communication systems; communication system, which is different in many ways to be recognized as whichwhich you know,which sort of deserves to be recognized as anew phase or a second media age, more about Postmodernism while later.

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Therefore, the cultural formations in this new electrical~~sorry~~ electronic environment are two things: one is the information super highway, and the other is virtual reality. So, you know that these two ~~for~~ as cultural formations, may be talked about separately, these scholars you work only on information highway, and these scholars you work only on virtual reality; ~~on~~ you know, the reality that is obviously, you know, what virtual realities, reality that is created where you know you, are in an environment, where which is not real, but which is virtual. So, these are the new cultural configurations, and what happens to identity on the information superhighway; what happens to a virtual to identity and subjectivity in virtual reality, I would think are the two main, you know main questions in cultural studies in the justification of cyber culture.

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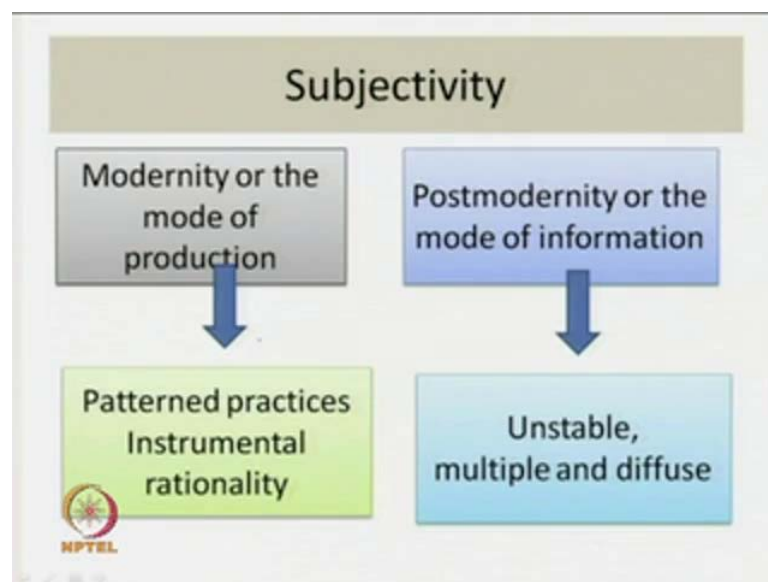
So, again from Mark Poster and just it is, I am reading this to you because it puts it so beautifully; this is what happens; in virtual reality, virtual reality and information highway cultural formations, and I am reading his words, the new technologies install the interface; now he calls this the face between the faces; the face that insists that we remember that we have faces, that we have sides that are present at the moment of utterance, that we are not present in any simple or immediate way. This is so befitting, you know, so well put identity in the virtual world; the fact that you can have several avatars right in a in a virtual reality environment, you know gives you so many faces now by faces obviously, he does not mean faces as we talk about the face, but they mean so many aspects to your subjectivity, particularly to your identity; I would say both right. So, in the sense that you have an identity as flesh and blood person, but in the virtual world, the world of virtual reality, you may take on so many identities, as we said you can take so many, taken so many avatars. So, that's why he says, you, the face between the faces so beautifully, put the face between the faces, the face that insists that we remember that we have not one face, but faces, many faces we have sides that are present at the moment of utterance, that we are not present in any simple or immediate way.

In the electronic environment, identity therefore, a subjectivity is made more complex, particularly of the dual level, you know, you are flesh and blood person living in the so-called real world; and in the virtual world, you also have another or several other identities, which make see whole you know, the whole idea of identity a fragmented one

and that is why it is part of Postmodernism, which believes, which believes in such fragmentation, which believes that there is no coherent, you know identity in any human being, even in the human beings flash and blood **blood**, sort of real world operation **right**.

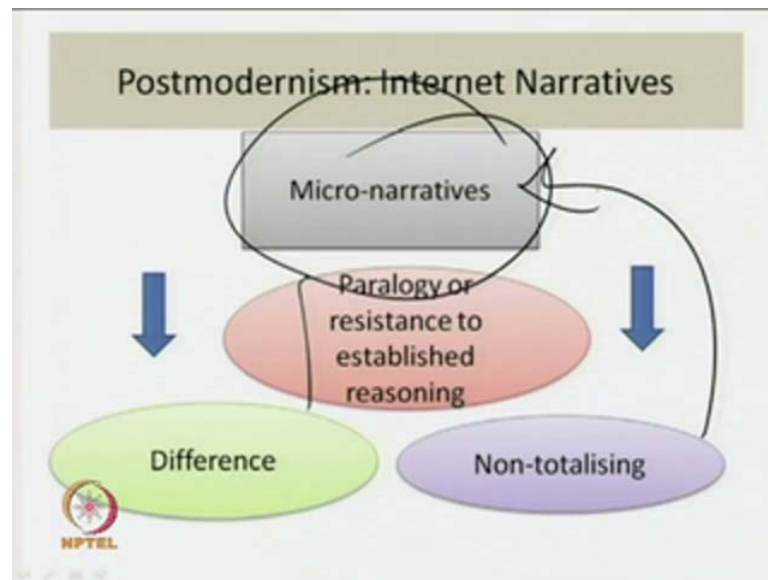
Not only in that, but you know, or rather even in, even in our so-called flash and blood avatars, we have you know, a fragmented identity; activate the you know, the multi-casted identities, you can take **take** off from mark poster multi-casted identities, multi-faces in the you know, cyber world virtual reality, what happens is the whole idea of even fragmented identities, takes on a very different, much more, you know, much more complex and difficult **difficult** controls.

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So, subjectivity, then in cyber space is related to, you know, in **in** the first media age to Modernity of the mode of production, and **which are** which gave us Patterned practices **and instrumental** and an instrumental rationality, and in the second media age that is a virtual reality and cyber culture, we have Postmodernity of the mode of information. So, we see here is the mode of production, and this is characterized by the mode of information, where identities and subjectivities are unstable, multiple and diffuse; on the other hand, subjectivity was to with, you know, it with patterned practices and an more or less stable identity, but this is radically broken in Postmodernity, as the result of the virtual world.

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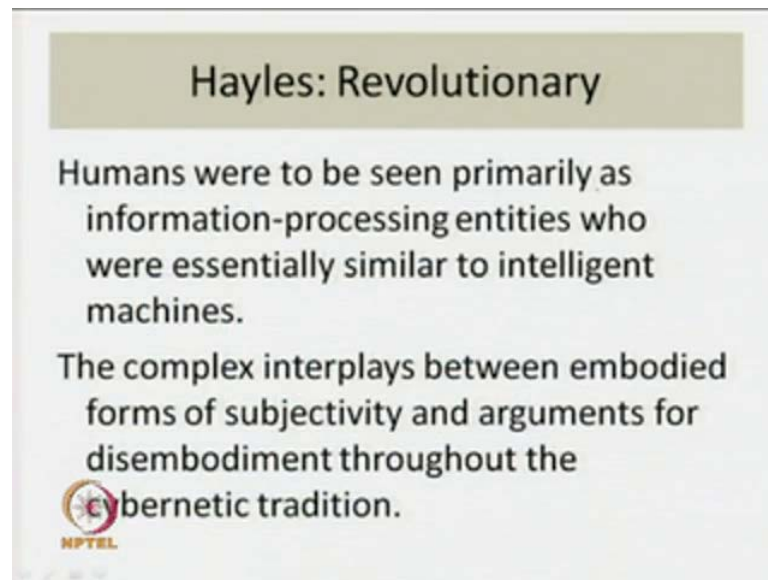


The knows of Postmodernism and internet narratives **right**; Postmodernism as said a while ago the plane how it is Postmodern, Postmodern does not believe in grand narratives, Postmodernism believes that all grand narratives are false **right**, why? Because only reason cannot, you know as specially instrument rationality, you know is always suspect, it cannot give us entire **issues** the issues of power and legitimating behind so-called, you know truths with a capitalist as we putted given to us, and an believes in micro narratives, it believes that every culture every sub culture has a narrative and it is only the dominant culture which forwards to you a grand narrative, because of issues of power and legitimately **right**.

And there is Paralogy or what we call resistance to established reasoning, and the whole idea is one of difference, the celebration of difference, and celebration of an totalitarian view of the world, the non totalitarian view of the world; therefore, ties in with micro narratives, small narratives, every ethnic group, every nation **right** has its own narratives to say about reality, about its own history etcetera, any you know sweeping narrative is always suspect. So postmodernism therefore, you know ties in with proliferation of internet narratives **right**; in that sense of course, in the internet is extremely liberating, because everyone finds a voice there **right**; every one can you know contribute his or her micro narrative.




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**Hayles: Revolutionary**

Humans were to be seen primarily as information-processing entities who were essentially similar to intelligent machines.

The complex interplays between embodied forms of subjectivity and arguments for disembodiment throughout the cybernetic tradition.

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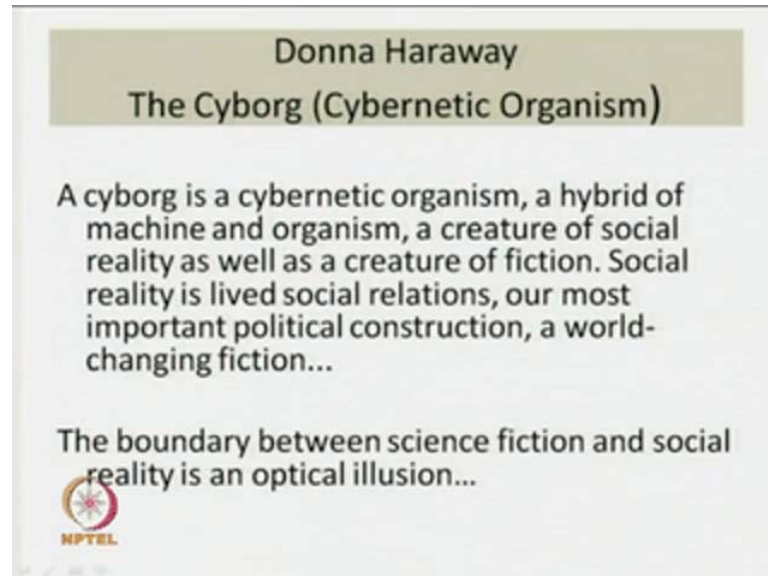
Then Catherine n Hayles is another very important scholar, who I refer to in my, you know, list of books for this, for this lecture, and she says that this has **this is has** almost a revolutionary element, virtual reality cyber culture **has bring** has brought in a new revolution, where I am quoting from Hayles, a humans were to be seen primarily as information- processing entities; humans are defined as information, remember we said that in our science technology and cultural lecture, remember we said that you know increasing we are defining ourselves, with respect to science and technology, with respect to the various domains, here to from the domain of the electronic environment, **we are** we describe, we have been increasingly describe information processing entities, who were essentially similar to intelligent machines; now the complex interplays between embodied forms of subjectivity and arguments for disembodiment throughout the cybernetic tradition, is one of the core, one of the core areas of **of** enquiry and research **in** cultural studies; look this complex interplays, we interplays, we were just talking about this while ago to complex interplay that happens, once you realize the difference between and embody person with the subjectivity.

And disembody being that you are in cyber faces, for the cybernetic tradition. So, the core issue, if I may, if you may zoom in to one certainly, what Hayles says, which is the complexity and the both a divide and the complexity that is there in understanding feeling ourselves knowing or having an experience of a subjectivity, a as an embody being, flash



and blood being and being as somebody in cyber space or virtual reality with the experience of this embodiment with.

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Then Donna Haraway is one person, we cannot live out and I think we will quickly end by looking at **by looking at** her work, and one of her most famous work is an essay really, which is entitled you know a manifest for Cyborg.

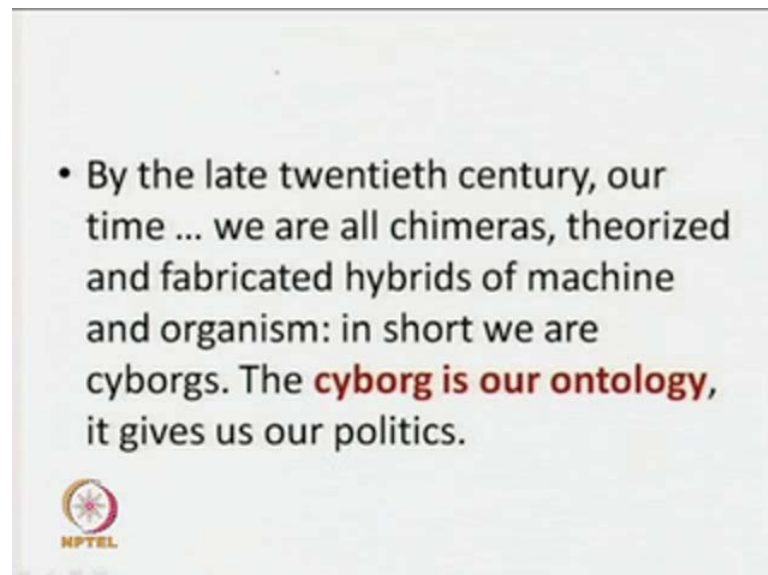
And the word Cyborg, is really a what we call a port man to word or you know, with two words parts of, you know, words have brought together, two words are brought together; the Cyborg is the cyb part of it is cybernetic, and the org is form organism. So, it is a short form for cybernetic organism; so obviously, a the Cyborg is then, usually if I may put it that way, usually a human being, who is you know an organism in cyber space **right**; not only in cyber space, but who also may be augmented by technology.

So, a Cyborg, she says is a cybernetic organism, a hybrid of machine and organism, a creature of social reality as well as a creature of fiction; social reality is lived social relations, our most important political construction a world changing fiction, the boundary between science fiction and social reality is an optical illusion, which puts it very correctly, we I am sure does we our readers of science fiction, novels **or** short stories, would today find that many of, you know, many of the **many of the** scientific predication if not most them are that are that for there in missing to the fantasy for us in science fiction are coming true; in today's world, one of the works at I may refer to and

you would really enjoy reading is this novel, if you have not read it yet, this novel entitled *Necromancer* by William Gibson; now many of the things that were written in his novel -fantasy novel *Necromancer* are things that you know, which is about *Necromancer* is about cyber hacker.

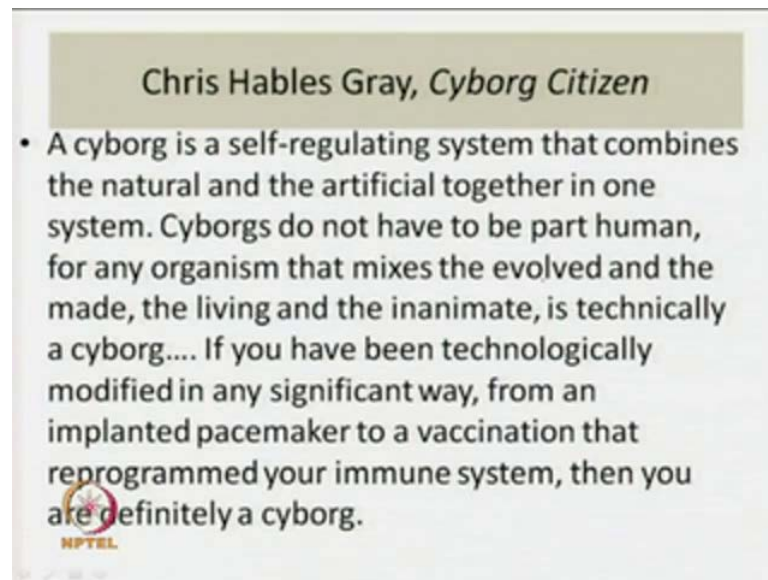
And many of the things described are so uncannily, similar to you know, you know to the problems and issues and experience of life in cyber space and virtual reality **right**. So, that is why she says Donna Haraway rightly says, the boundary between science fiction and social reality is an optical illusion, because it is already coming to be true.

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Then, she says by the late, I am **I am** quoting those, you know lines which are very striking both in their **(( ))** and in their in their argument **right**, and that is why like to share this with you; by the late twentieth century our time, we are all chimeras, the theorized and fabricated hybrids of machine and organism: in short we are **we are** cyborgs. The cyborg is our ontology, it gives us our politics. The cyborg is our ontology; we could also rephrase it as saying cyborg is our identity. The cyborg is essentially, who we are today; it gives us our politics **right**.

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**Chris Hables Gray, *Cyborg Citizen***

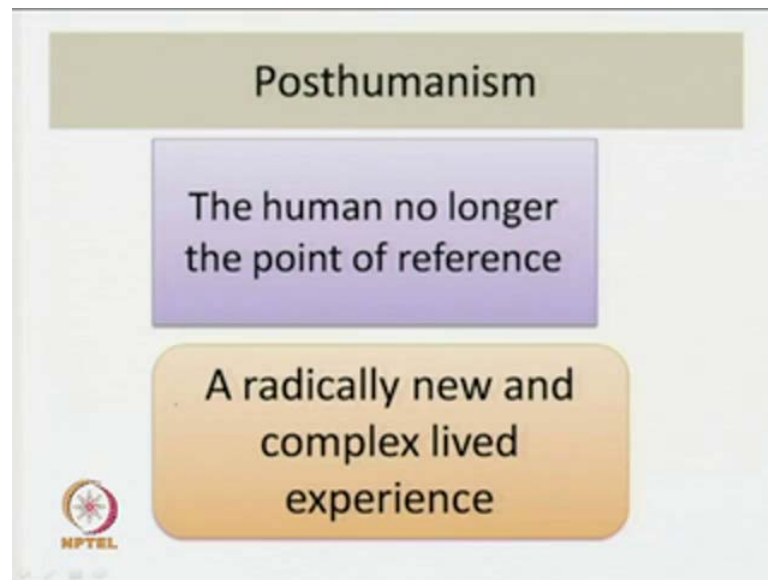
- A cyborg is a self-regulating system that combines the natural and the artificial together in one system. Cyborgs do not have to be part human, for any organism that mixes the evolved and the made, the living and the inanimate, is technically a cyborg.... If you have been technologically modified in any significant way, from an implanted pacemaker to a vaccination that reprogrammed your immune system, then you are definitely a cyborg.

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Now, the way cyborg is described by Chris Hables Gray and *Cyborg Citizen*, the book that mention while ago, which talks about the whole all the issues regarding participatory development, you know issues of citizenship of human rights etcetera in the cyber world and he describes cyborg, you know in this way, this is very easy to understand; and I am quoting from Gray, cyborg is a self-regulating system that combines the natural and the artificial together in one system. Let's underline this; Cyborg do not have to be part human, for any organism that mixes the evolved and the made, the living and the inanimate, is technically a cyborg; if you have been technology modified in any significant way, from an implanted pacemaker to a vaccination reprogrammed your immune system, then you are definitely a cyborg.

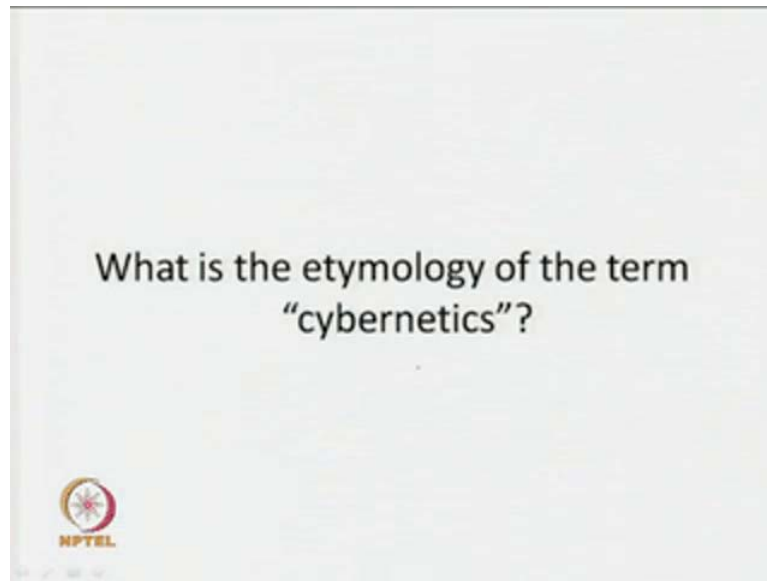
This is the of course, a very broad you know definition of cyborg, and elsewhere, I think it is a Gray itself and other also we said that the moment you are wearing a watch **right**, the moment you are wearing a watch, you are already in to, you know, already in to they you know, broadly speaking in to the cyber world, here cyber world does not in have to any electronic environment, as such a case the moment you are sort of augmented by the watch, the moment you are as I said if you have a have a pacemaker in planted in you; even if we are vaccinated, which means already entered the world of the made, and not the world of naturally evolved.

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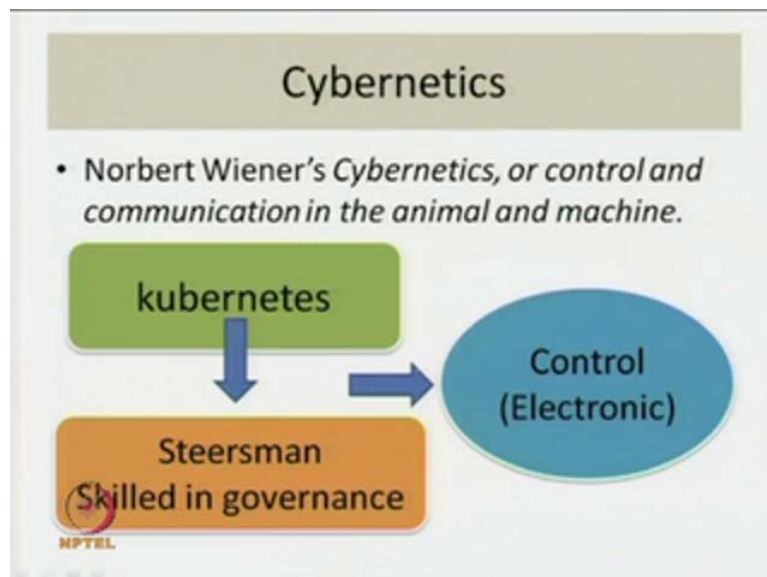
Therefore, this is the Posthuman world, by Posthumanism you mean, you know way of thinking, in which the human is no longer the central point of reference **right**; as I says here in this slide, the human is no longer the point of reference, and there is a radically new and complex lived experience, post humanism does not only mean, this is very important as the school of sort it does in only mean the that we are related to machines, it is also means that related to other animals. So, the machine part of it, of course, is highlighted here, but remember that other words, you know scholars like Donna Haraway for instance, you will find that this issue of taken of our relation to animals etcetera not just to machines.

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So, let us come to the discussion, in the end, and just one or two questions to help you, you know revisesome of the points here; if you ask the question like, what is the etymology of the term cybernetics? Now, do you remember, what we have, you know that it was a point that discussed the long ago.

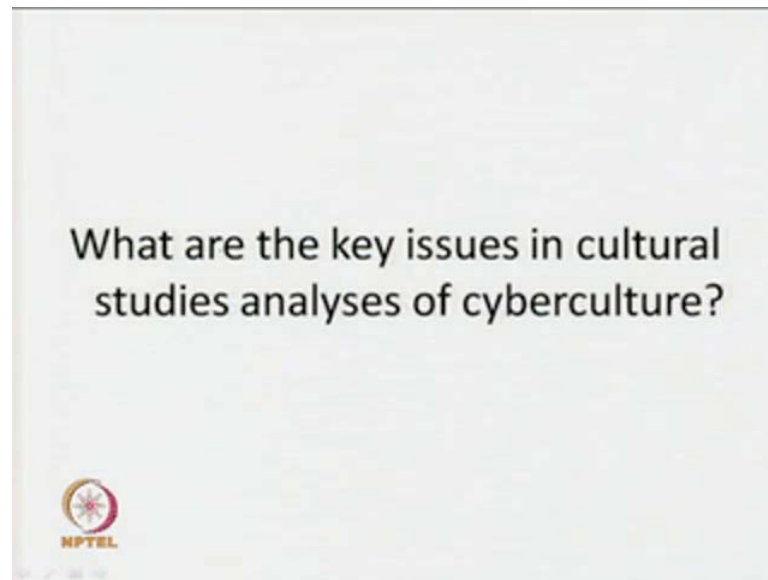
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If you do not remember that let me give it to you, the word, the etymology is the Greek word **kubernetes** **right**, cyber is prefix and cybernetics is related to **kubernetes**, the Greek word for steersman, which also means anyone, who is skilled in steering and that is in

governeright; important point here is, the steering or the governance is the control that is any electronic environment and that is electronic in nature; and it was made, this term was made famous and popular by Norbert Wiener's seminal works cybernetics or control and communication in the animal and machine.

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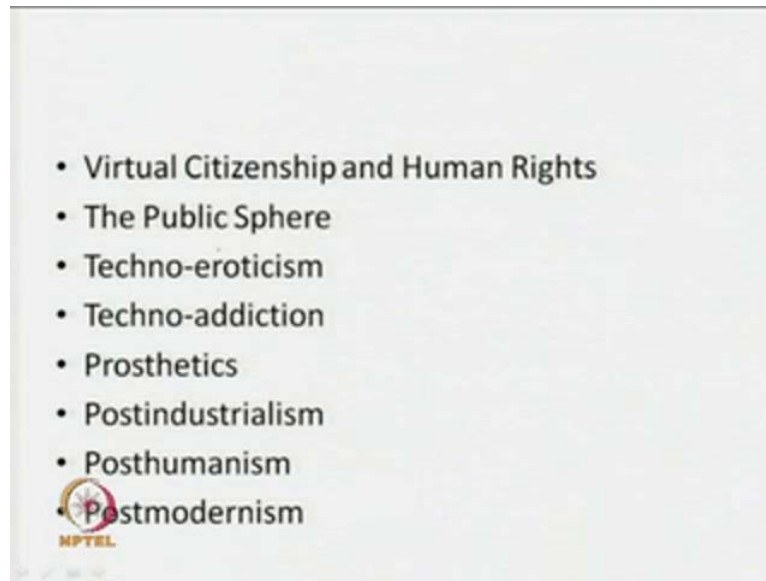


Then, what are the key issues in cultural studies analyses of cyber culture?

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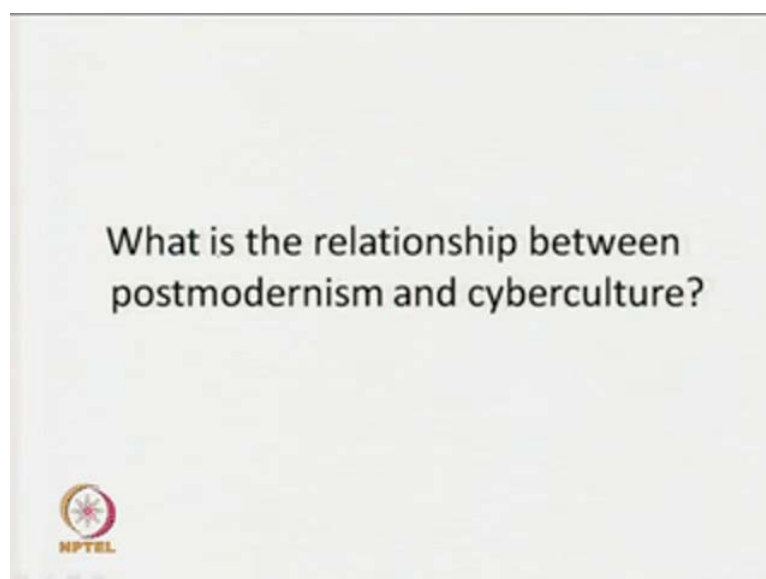


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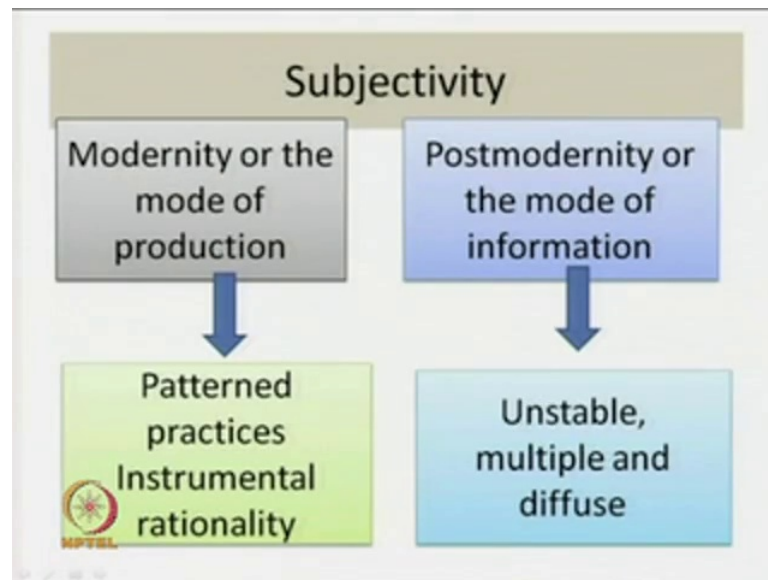
As we found so many of these, and you **you** can, if you want, if you get much longer answer, we can talk about, you can mention all these and talk about some of these in detail like, we have done about identity and subjectivity, about corporeality and materiality of virtual citizenship, and of Posthumanism and Postmodernism. So, these are some of the areas, as you know, you have to learn these, if you are asked a question on the scope of cultural studies analysis.

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So, what is the relationship between Postmodernism and cyberculture?

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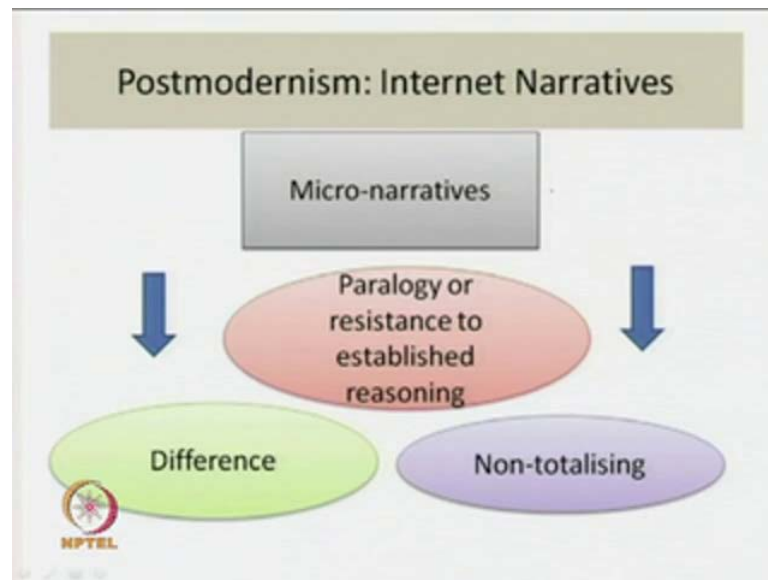


Then, the answer is the relationship is, may be answered or the **the** question of the relationship may be answered; partly with an appeal to an important term or key concept in culture studies: namely subjectivity and you can say that Postmodernity is related to you know, cyber culture; because post modernity is not you know, relative to the mode of production as much as its relative the mode of information.

And subjectivity in cyber culture, in the virtual world like subjectivity as is understood by Postmodernism is unstable, multiple **right** and diffuse, whereas the found that in **in** modernity **right** subjectivity is do with a mode of production an instrumental rationality the issue subjectivity, which is you know, which comes about in a predictable way, which is do with repeated patterned, which is not at least as an unstable multiple and diffuse as identity **sorry** subjectivity and in the rows of identity **in** postmodernism.



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And also Postmodernism is related to cyberculture, because internet narratives also allow proliferation of micro narratives way this resistance to established way of thinking establish way of reasoning, and this the celebration as in Postmodernism of difference, and non totalizing theories and known totalizing understandings of subjectivity an identity are encouraged in the ethos of cyberculture.

So, this we come to the end of our lecture on cyber culture, and we also come in you know, to the end of these in to a group of lectures in the forth module, which were devoted to the science and technology to new media, you know, to virtual and cyber culture, and I hope this was interesting for you, and those of you who are who would like to know more about it can you know, there is a lot of literature not in the shape of printed books, but old form of print books, but also so much there is available on the internet, if you look at these with some degree of discussion and you know intelligence choice and the lot to be learned, why because this is something even if you in the (( )) world, this is something that using, you are most of you are on the students around the internet, most of you know are engaging in these things online chats, emails etcetera; they whole internet environment. So, you have to understand even as you use that these are new ways of subjectivity and identities that are being formed; it is very important for us right as users; not to simply know the theory, but you know hands on even as you are using these things to understand, what kind of identity am I shaping for myself? What kind of the subjectivities happening as I am in this online conversation? What are the different

avatars that I may be showing or may be even developing as am in the world of the cyber or in virtual reality? Thank you so much.