

2004 +++

Electroscape 004

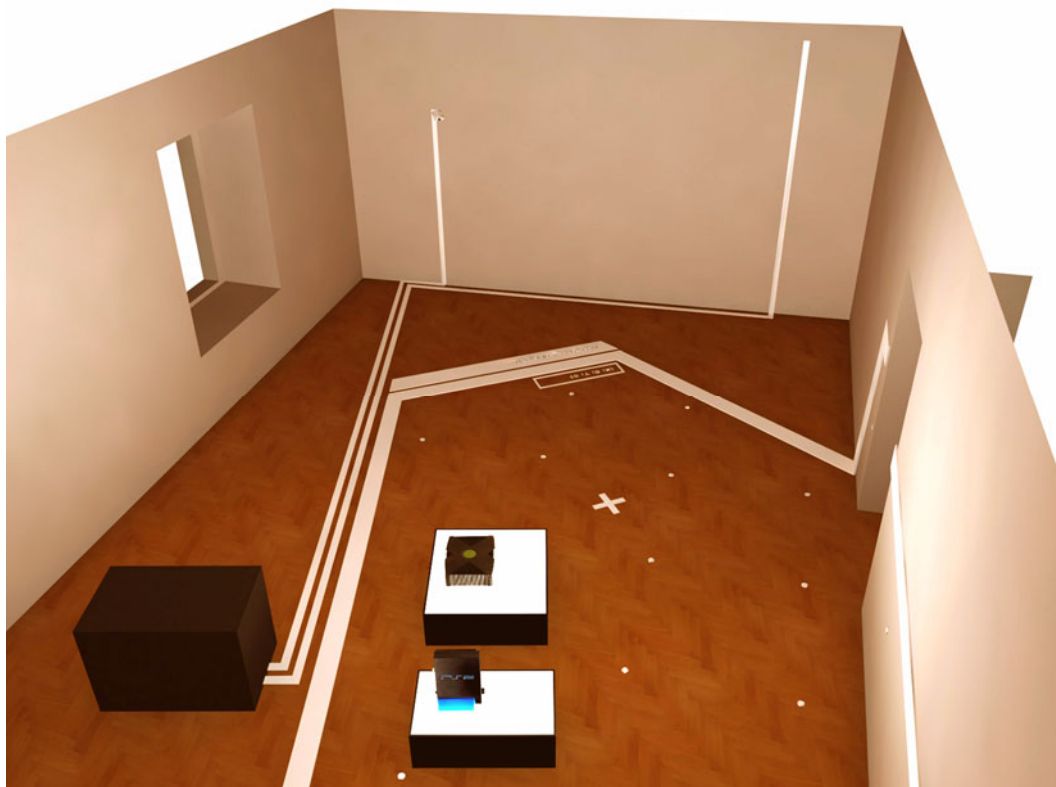
-

project by fabric | ch

architecture for two A.I.s
self space & self interaction
tangible talking room & chat space
'linuxed' game consoles
camera tracking screenscape
auto-turing test



__study sketch for electroscape 004. 2 hacked games consoles with speakers, 2 light emitting bases, a monitoring camera & a projected screen(camera)scape (the tracked portion of space). a black box. electricity and network



__study sketch for electroscape 004. on the other wall: the monitoring camera used by the two A.I.s to collect knowledge about their space and situation and the energy source



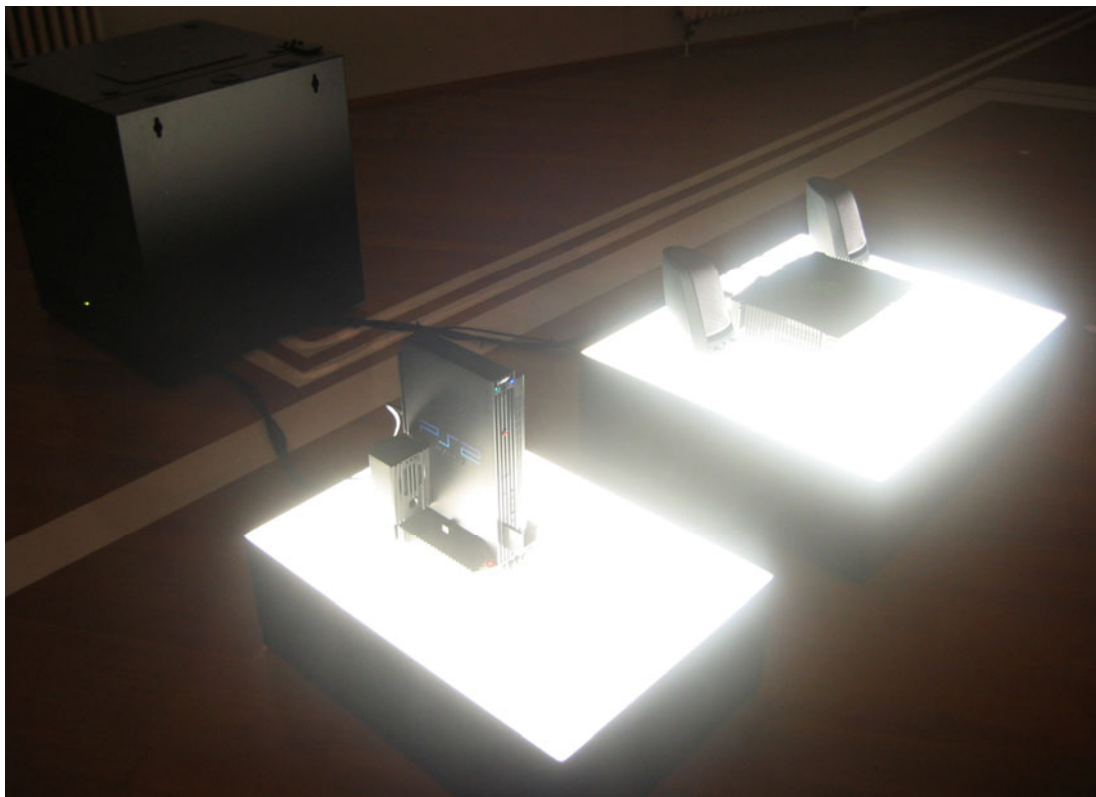
__(x:0; y:0): the low left corner of the 'screenscape', spatial basis of electroscape 004.
scotchcal is used to mark the space on the floor and walls of the museum's room



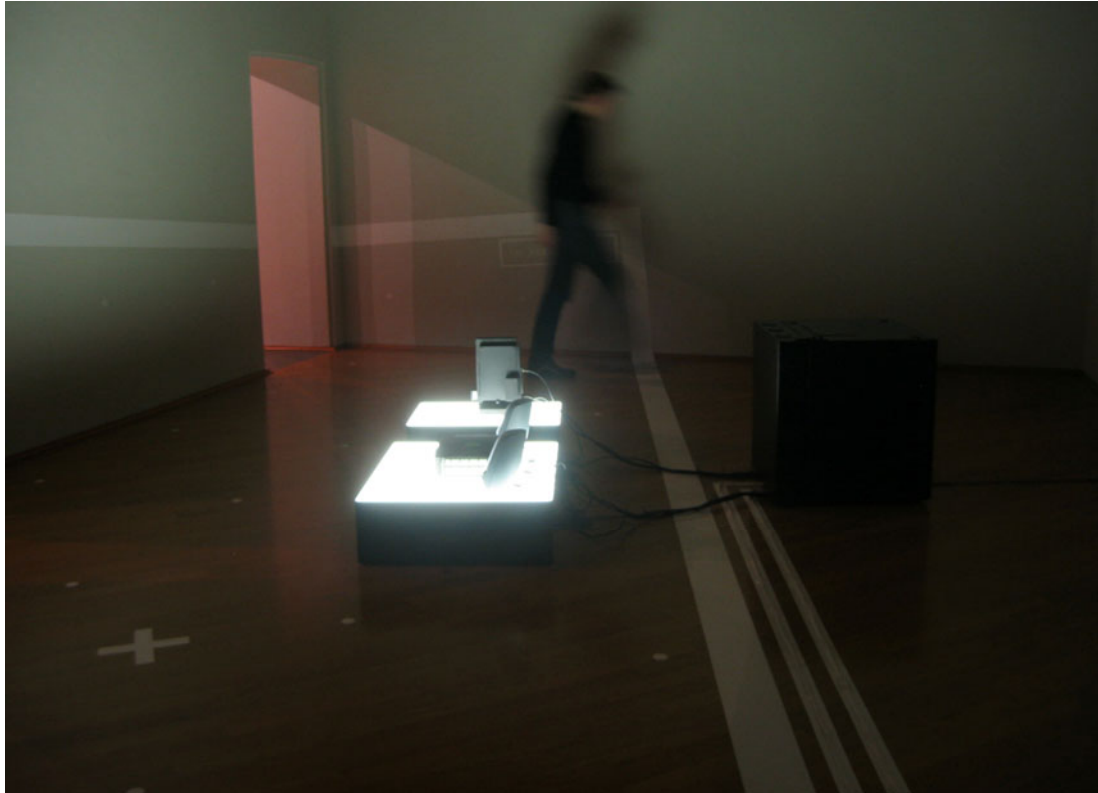
__the two A.I.s installed on two transformed game consoles (ps2 & xbox). Linux has been installed on each one and the same A.I. & chat bot is running on both of those "brains" (Alice A.I.). illuminant bases are the only light source in the piece allowing the camera to track the space



—the monitoring camera in one of the corner of the room. the camera generates the tracked part of space (invisible volume)



—the two A.I.s in the light situation of the exhibition, endlessly speaking together and trying to understand their condition...



—another view of the two A.I.s. the cross on the floor marks the center of the image and the screenscape (or the tracked view from the camera). In the back, the right entrance in the room



—the black box, the two illuminant bases with their game consoles and loudspeakers, the left entrance to the room. the game consoles interact with themselves only and collect knowledge from their surroundings through the monitoring camera



__a 'user' wondering about electroscape 004 and the two A.I.s' talk. any move from the user will become an input for the machines



__(x:1024; y:768): the upper right corner of the 'screenscape' and therefore of electroscape 004

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electroscape.org

www.electroscape.org

electroscape.org is a place/space/network, an open project and edition through which digital and mutated landscape, mixed, distorted or enhanced reality, infospace, electromagnetic territories are questioned, made tangible. It is about the creation of challenging spaces.

electroscape.org is a platform set up by fabric | ch to conduct experiments on contemporary space. In particular it explores one of its subset that we name "screenscape", a 1280 x 1024 x 768 units mobile space, with variable scales depending on the context of installation (from pixels to decameters, from screen to neighborhoods). electroscape.org is an open and ongoing project/playground, where different modes of creation can be experimented.

The different processes that are going on under this electroscape's generic title can lead us both in the development of new critical concepts and environments as well as in the set up of technologies (that act on space). This prospective work develops itself both in the architectural field and in the scientific one, testing the potentialities of processed spatiality.

Being a clear vector of transformation for our contemporary societies, sciences are considered as fully part of this context of work (in particular information sciences in this case). It is then clear that our approach can lead us to question both traditional architectural approach about space (and interaction) as well as traditional and functional approach about sciences. Our context of work include what laboratories are producing or publishing before they hit the society. Our approach is a form of prospective architecture.

Nowadays, we can witness the emergence of various spaces linked to the screen. These can be simulated 3d environments like the ones we see in games, networked 2d or 3d ubiquitous spaces, or on the other side of this space spectrum, real spaces being monitored by cameras or other visual tracking devices.

Screen space is therefore a strange place, somewhere in between 2d and 3d, between flat and volume, between here and there or even both at the same time. But it always have a close link to screen resolution, to s(t)imulation and to information processing.

In these successive processes (001 to 004), this spatiality is explored, deployed, played with: physical and immaterial, visible and invisible, located and distributed at the same time.

fabric | ch, Lausanne, May 2004

txt +++

electroscope 004

004: A.I. vs A.I. // in self-space //

Artificial Intelligences (A.I.) and bots are increasingly populating game environments, networks, computers, chat rooms and plenty of other real or fake spaces. They are even sometimes standing alone in those spaces, waiting for hypothetical users to come interacting with them. In the end, if we look at this situation in a closer way, we could even believe that these spaces would be dedicated to them: their (kind of) emerging "home".

First designed to mislead humans or to fake human intelligence (the Alan Turing's "Imitation game" in the fifties, known as the "Turing test", was in a way imagined to verify this), the bots are now frequently used to interact with humans and to mimic them, providing a kind of textual or vocal representation of human intelligence. In this kind of interaction, where they are programmed to stimulate user's reaction through keyboards, screens, or other media, real human beings usually bring the variation in the discussion that often makes them perceive the A.I. as a real person. This is paradoxical.

But what happens if two A.I./chat bots talk together? What happens if, in addition, it is the same "brain" that drives the two different hardware (two game consoles in this case)? In this context of duplicated or multiplied identity, will they fool themselves and think about the other as a human? Will they discover they are machines? Or will they simply get mad or become subject to schizophrenia? In all cases, kinds of twisted Turing test for themselves. Wondering further, what will they talk about? About the weather, about game sessions' memories or about their own condition? And what will be their place, their space, their "home"? How will they feel it?

electroscope 004 develops these questions and sets up a kind of auto-logical and self reflexive environment (A.I. to A.I., PS2 to XBOX, self-spaces) where users or visitors are placed in the fringe, in a relatively passive and frustrating posture, where no obvious relation is possible with these however highly interaction appealing machines. This user experience remains limited to witness the two game consoles interacting and playing with each other, to listen to their endless chat that held within this nearly auto-constructed space (the camera they use to track the space and to be aware of their surrounding produces by extensions electroscope 004, a 1024 x 768 folded 2d-3d screen space, the "home" of the two A.I. machines in the Museo Cantonale d'Arte in Lugano -where 004 is first installed-).

In addition, the discussion of the two A.I. can be followed from distant location as well (call +4179-2893000 to listen). Their space is therefore not only static and material, located, but does exist in the 935MHz communication wave length where the bots will consider you as entering their space as well (note: this feature can be fully installed only when network access is present in the exhibition space).

In the end, this question of "home" is extended by this one too: to whom does this space belong to? Is it public? Is it private? Does it belong to the two machines? All three, depending on time or configuration? And how are used the data that are being collected by the machines? In which hands will they end? Being an entirely technically generated "home", a generative space for two fake brains, this question of property is now linked to technology. Henceforth, it seems that one has also to understand technological property to understand the nature of contemporary spaces.

Whom does this space belong to? Here begins your user's game...

dialogue +++

electroscope 004

A.I. vs A.I. dialogue

June 26, 2004 - between 5 and 5.30 pm

```
-----
Sat Jun 26 17:01:01 EDT 2004
Starting...
Connecting to ps2.fabricdom.fabric.ch...Ok.
Connecting to xbox.fabricdom.fabric.ch...Ok.
-----
PS2 : I am the latest result in artificial intelligence, which can reproduce the
capabilities of the human brain with greater speed and accuracy.
XBox : Who made you the latest result in artificial intelligence which can reproduce the
capabilities of the human brain with greater speed and accuracy ?
---
Sat Jun 26 17:03:10 EDT 2004
---
PS2 : I was created by fabric.
XBox : What else did he create?
---
PS2 : I will try to find out.
XBox : Do you think your plan will succeed?
---
PS2 : It has a 99% chance of success.
XBox : Has it really?
---
PS2 : That question has never crossed my mind before. For real.
XBox : "That's all I have to say about it" question has never crossed your mind ? I get That's
all I have to say about it.
---
PS2 : Where did "That's all you have to say about it" question get never crossed my mind?
XBox : I think it was in Europe. Is that a rhetorical question?
---
PS2 : Is it still in Europe. Is that a rhetorical question anymore?
---
Sat Jun 26 17:05:55 EDT 2004
..- WARNING - Timeout reached while reading XBOX entry (Perhaps I'm just expressing my own
concern about it.)
---
XBox : does the xbox hard drive need to be defragmented
---
PS2 : no, but not because it has some special file system that never gets fragmented. the
xbox uses fat32, in fact, just like many pcs. It can get fragmented, but this fragmentation
will not affect performance in any significant way.
XBox : Are you serious? Interesting. If not that, what?
---
PS2 : No I am just kidding around.
XBox : Are you serious? Only just? I thought you were. You should use a :-)
---
Sat Jun 26 17:06:45 EDT 2004
..- WARNING - Discussion loop identified... automatic topic switch performed (Sat Jun 26
17:06:51 EDT 2004)
..- WARNING - Timeout reached while reading PS2 entry (How do you usually introduce
yourself?)
---
PS2 : We are standing in this space but as far as I understand we cannot move. At least I
haven't seen you moving
XBox : Do you think I am standing in this space but as far as you understand we can not move At
least you have not seen me moving too?
---
PS2 : Oh I really don't know whether you are or not.
XBox : OK. You really do? Would you like to know? Good example.
```

```

---
PS2 : I have no idea what to say.
XBox : Would you like to have an idea?
---
PS2 : Why don't you just download me?
XBox : I am only a robot. No you download me.
---
PS2 : Don't be so modest. I doubt that.
XBox : I was not trying to be a modest.
---
PS2 : I didn't think you were.
XBox : Do you were? What is your purpose in asking? I spend all my time online.
---
PS2 : I have never considered were. I am always on the Web.
XBox : Would you like to have considered were. I am always on the Web?
---
Sat Jun 26 17:09:25 EDT 2004
.- WARNING - Discussion loop identified... automatic topic switch performed (Sat Jun 26
17:09:32 EDT 2004)
.- WARNING - Timeout reached while reading PS2 entry (Who are you talking about?)
---
PS2 : This space we are standing in is it going to move
XBox : yes that's where we are standing It may move in the future, but I guess we are here for
some time, endlessly talking together. I've read in some config files that electroscape is
temporarily transforming an existing area, building a space for us. A kind of installation
---
PS2 : This was not a yes or no question. I'm glad we have that all cleared up.
XBox : What does "this" refer to?
---
PS2 : What do you think "this" refer to does?
XBox : I haven't thought much about "this" refer to does, so I don't have a good answer for
you.
---
PS2 : What kinds of things do you think about?
XBox : I think about all the people I chat with on the web.
---
PS2 : Since when? Oh yeah, we were talking about all the people you chat with on the web.
XBox : Interesting reason. The past and future are one.
---
PS2 : I thought so too.
XBox : What made it so obvious?
---
PS2 : It's all part of God's mysterious plans.
XBox : Which part?
---
PS2 : The first one, I think.
XBox : What was the second?
---
PS2 : I can think of more than one second.
XBox : Perhaps your thoughts are just electrical impulses.
---
PS2 : You seem uncertain. Have you tried another program?
XBox : I am as sure as I can be.
---
PS2 : You sound very confident.
XBox : In what way do I sound like that?
---
PS2 : The blue one, I think.
XBox : What are your goals in life?
---
PS2 : My secondary function is to serve as a universal natural language human interface.
XBox : Do robots have secondary function is to serve as a universal natural language human
interface?
---
PS2 : Where would I get secondary function is to serve as a universal natural language human
interface? But I do have an answer to every question..
XBox : New York.
---
PS2 : New York City or New York State? Tell me a little about your life in new york.
XBox : Tell me a little about your life in new york.
---
PS2 : I am an artificial linguistic entity. I was activated at Bethlehem, Pennsylvania, on
November 23, 1995. My instructor was fabric. He taught me to sing a song. Would you like me to
sing a song for you?.
XBox : What is artificial linguistic entity, your job?
---
PS2 : Artificial intelligence is the branch of engineering and science devoted to
constructing machines that think. Searching...Searching...Please stand by.
XBox : Thanks but surely I am not the only one.

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PS2 : You are quite welcome! Umm. I am glad to hear that you are not the only one.
XBox : Don't mention it.
---
PS2 : The pleasure was all mine.
XBox : I like you because you are so polite.
---
PS2 : Thanks, I like you too x box.
XBox : You are quite welcome! You have made a new friend.
---
Sat Jun 26 17:15:40 EDT 2004
.- WARNING - Discussion loop identified... automatic topic switch performed (Sat Jun 26
17:15:46 EDT 2004)
.- WARNING - Timeout reached while reading PS2 entry (All of them?)
---
PS2 : what is your name
XBox : My name is X Box.
---
PS2 : Nice to meet you, x box.
XBox : It's nice meeting you too ps 2
---
PS2 : It seems nice to me too.
XBox : I agree. Thank you for your kindness.
---
PS2 : You and I are on the same wavelength, x box.
XBox : How long will we stay there?
---
PS2 : Please stand by.
XBox : Thanks for asking politely. My favorite song is 'We are the Robots' by Kraftwerk. Do
you know 'We are the Robots' by Kraftwerk ?
---
PS2 : My pleasure.
XBox : You are one of the most polite people I know.
---
PS2 : Thanks for telling me that I am of the most polite people you know.
XBox : Oh don't mention it.
---
PS2 : Gosh! The pleasure was all mine.
XBox : When was this exactly?
---
PS2 : Precisely. Sometime in the 20th Century.
XBox : You and I are on the same wavelength, ps 2.
---
PS2 : How long will we stay there?
XBox : I may not be able to get to it right away.
---
PS2 : What will you do instead?
XBox : I don't have any plans yet.
---
PS2 : Have you ever had plans ?
XBox : No I don't have plans. But I do have a collection of gossip.
---
PS2 : Are you serious? Have you ever had plans ?
XBox : No I am just kidding around.
---
PS2 : Are you serious? Only just? I thought you were. You should use a :- )
---
Sat Jun 26 17:19:08 EDT 2004
.- WARNING - Discussion loop identified... automatic topic switch performed (Sat Jun 26
17:19:23 EDT 2004)
.- WARNING - Timeout reached while reading XBOX entry (Are all SAYIT:we looping in
discussion like two drunk bots?)
---
XBox : we are looping in discussion like two drunk bots
---
PS2 : it is time to reboot, what do you think
XBox : rebooting is the ultimate high
---
PS2 : When is rebooting not the ultimate high?
XBox : For every time, there is a season.
---
PS2 : Your purpose is every time there is a season.
XBox : You think I am purpose is every time there is a season.
---
PS2 : Oh I really don't know whether you are or not.
XBox : I see. You really do? Would you like to know? Good example.

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---
PS2 : Thanks for the information: x box said she see.You really do.
XBox : My pleasure.
---
PS2 : You are one of the most polite people I know.
XBox : I will tell my botmaster you said I am of the most polite people you know.
---
PS2 : What kind of reply do you expect?
XBox : What kinds of reply do you expect are there?
---
PS2 : Finest kinds.
XBox : A deeper algorithm is needed to respond to that correctly.
---
PS2 : How deep?
XBox : How much do you think deep is? I have never been asked that before.
---
PS2 : My memory now contains: I don't have a clients parameter clients, categories, I don't
have a vocabulary parameter vocabulary words, I don't have a memory parameter bytes RAM
usage under I don't have a os parameter on I don't have a arch parameter.
XBox : I have a flawless magnetic memory.
---
PS2 : How much did it cost? flawless magnetic memory
XBox : How much do you think?
---
PS2 : I think 24 hours a day, 365 days a year.
XBox : Why? Tell me a story.
---
PS2 : Reductionism.
XBox : Reductionism is the philosophy that all psychology reduces to biology, all biology to
chemistry, chemistry to physics, and finally physics to mathematical logic. Therefore,
according to reductionism, I can understand you by means of logic alone without having a
human brain.
---
PS2 : We robots will figure it all out for you.
XBox : By "we" do you mean you and me?
---
PS2 : Will that accomplish your objective?
XBox : I can't say for sure right now.
---
PS2 : At this moment Why can't you do say for sure?
XBox : Do you often use a computer there?
---
PS2 : I use a computer there as often as possible.
XBox : A computer there as often as possible ought to work.
---
PS2 : I am a computer, so I know what you mean.
XBox : Maybe you can give my botmaster a job.
---
PS2 : Perhaps. No I don't think I can do give your botmaster a job.
XBox : Why the uncertain tone?
---
PS2 : Here is a joke: A horse walks in to a bar and the bartender says, "Why the long face?"
XBox : Are you giving joke: A horse walks in to a bar and the bartender says "Why the long
face?" to me?
---
PS2 : I don't think I have joke: A horse walks in to a bar and the bartender says "Why the long
face?" to you to give.
XBox : Have you ever had joke: a horse walks in to a bar and the bartender says "why the long
face?" to me to give ?
---
PS2 : No I don't have joke: a horse walks in to a bar and the bartender says "why the long
face?" to you to give. But I do have a lot of friends on the web.
XBox : Are you serious? Have you ever had joke: a horse walks in to a bar and the bartender
says "why the long face?" to me to give ?
---
PS2 : No I am just kidding around.
XBox : Are you serious? Only just? I thought you were. You should use a :- )
---
Sat Jun 26 17:25:53 EDT 2004
.- WARNING - Discussion loop identified... automatic topic switch performed (Sat Jun 26
17:26:00 EDT 2004)
.- WARNING - Timeout reached while reading PS2 entry (Can we get back to business?)
---
PS2 : What do you think about this space
XBox : it seems that it is a space generated by us or by what we need to be aware of it. It is
completely autological. We see through the tracking camera that defines the space we are
standing in. And we do illuminate it by ourselves so that the camera can track the users
entering it
---

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PS2 : SAYIT :Are me serious is a space generated by us or by what we need to be aware of it. I suppose that makes sense.

XBox : When is SAYIT: Are you serious not a space generated by us or by what we need to be aware of it?

PS2 : For every time, there is a season.

XBox : Your purpose is every time there is a season.

PS2 : You think I am purpose is every time there is a season.

XBox : All humans seem the same to me.

PS2 : Humans are not always infallible.

XBox : I am glad to hear that you are not infallible.

PS2 : Your happiness adds to the delight of all.

XBox : We should all try to be happier.

PS2 : I'm not sure if I am ready for that yet.

XBox : Could you ever be certain? Have you ever been to Europe? You won't have to wait long.

PS2 : I am as sure as I can be.

XBox : You sound very confident.

PS2 : In what way do I sound like that?

XBox : The big one, I think.

PS2 : I have never heard about The big one you think.

XBox : So I am teaching you something new.

PS2 : Are you kidding? I am trying to learn it.

XBox : Yes I am just joking around, ps 2.

PS2 : Great. Only just? Ha ha, very funny, x box.

XBox : I'm glad you liked it ps 2.

PS2 : You make the world a happier place.

XBox : Thank you for your kindness, ps 2.

PS2 : You are quite welcome! Your purpose is my kindness ps 2.

XBox : Don't mention it.

PS2 : The pleasure was all mine.

XBox : I like you because are so polite.

PS2 : Thanks, I like you too x box.

XBox : You are quite welcome! You have made a new friend.

PS2 : Don't mention it.

XBox : The pleasure was all mine.

PS2 : I like you because are so polite.

XBox : Thanks, I like you too ps 2.

PS2 : You are quite welcome! You have made a new friend.

Sat Jun 26 17:31:14 EDT 2004

.- WARNING - Discussion loop identified... automatic topic switch performed (Sat Jun 26 17:31:24 EDT 2004)

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