

Real Virtuality

Immersion and Perception of Virtual Architecture
in Multi-User Virtual Environments

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Architects in Virtual Reality.

The real world - just another window!

God or Ego?

Interface - how old are you? - PLAY

Going virtual:

Instruction 1: ontological –

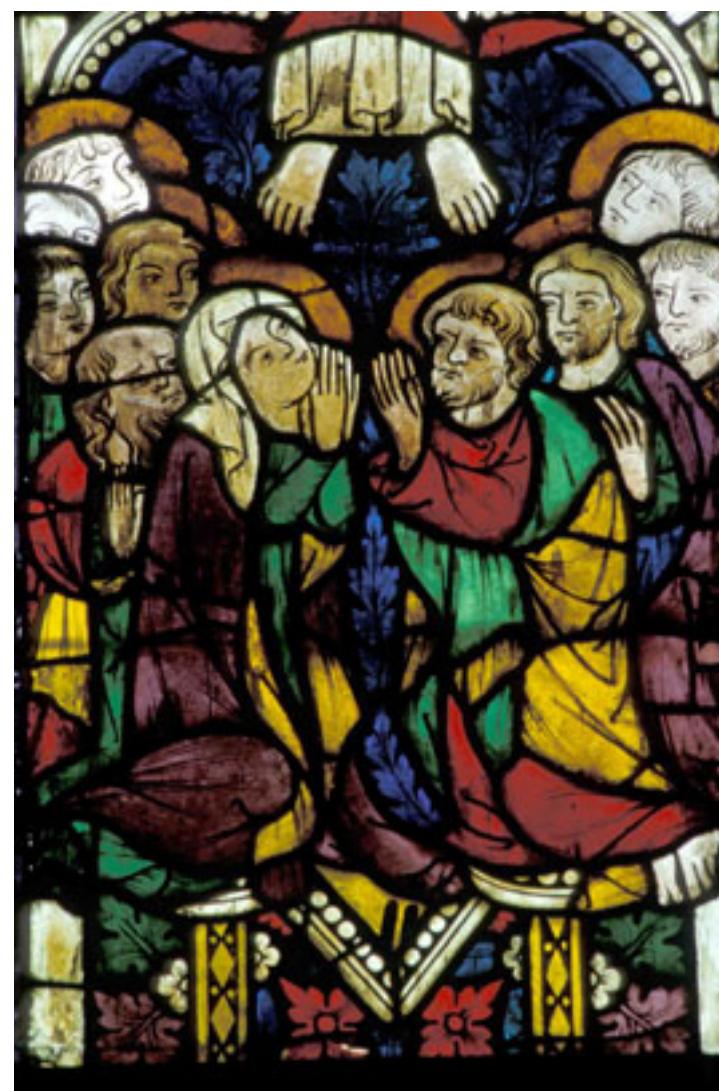
Architecture_Engine_1.0

Instruction 2: architectural consciousness –

Archdiploma2007

Instruction 3: open the virtual door

Instruction 4: parameter value!

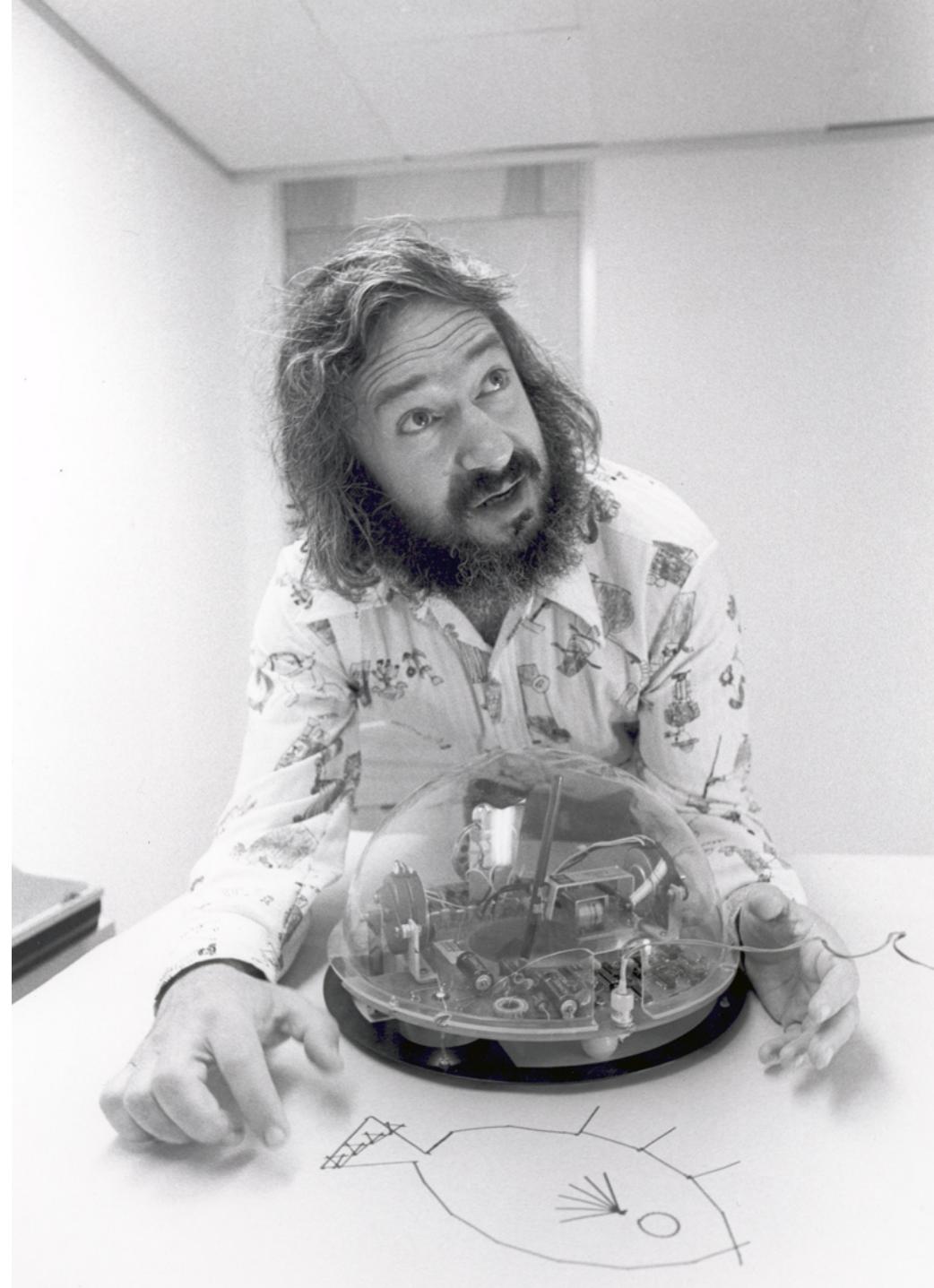






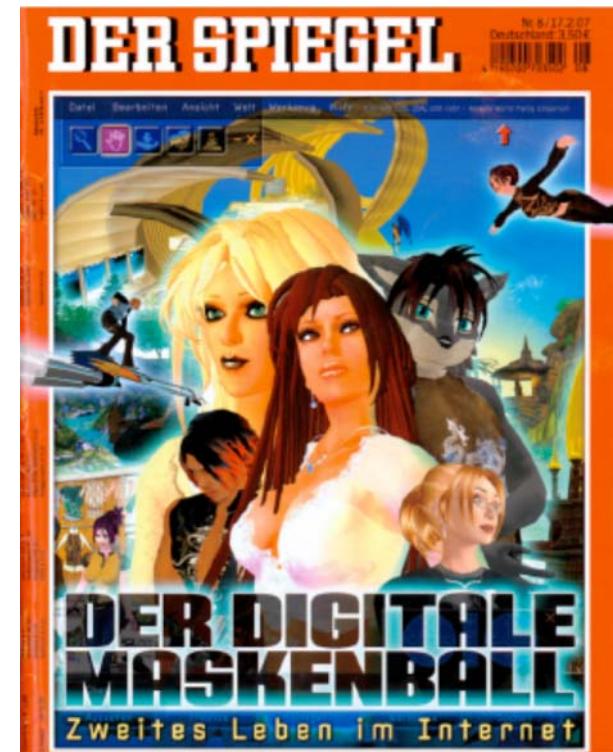
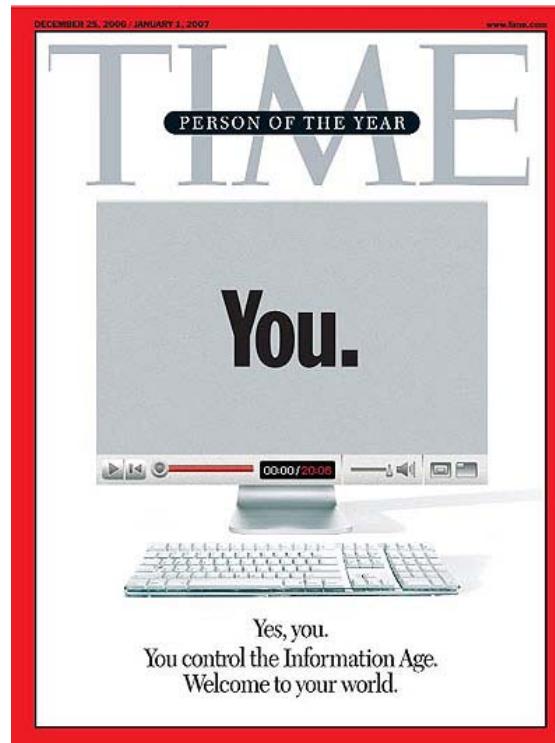
Catalogue published for the exhibition *Software, Information Technology: Its New Meaning for Art*, New York: Jewish Museum, 1970.

Installation SEEK von Nicholas Negroponte und der Architecture Machine Group am MIT, 1969–70,



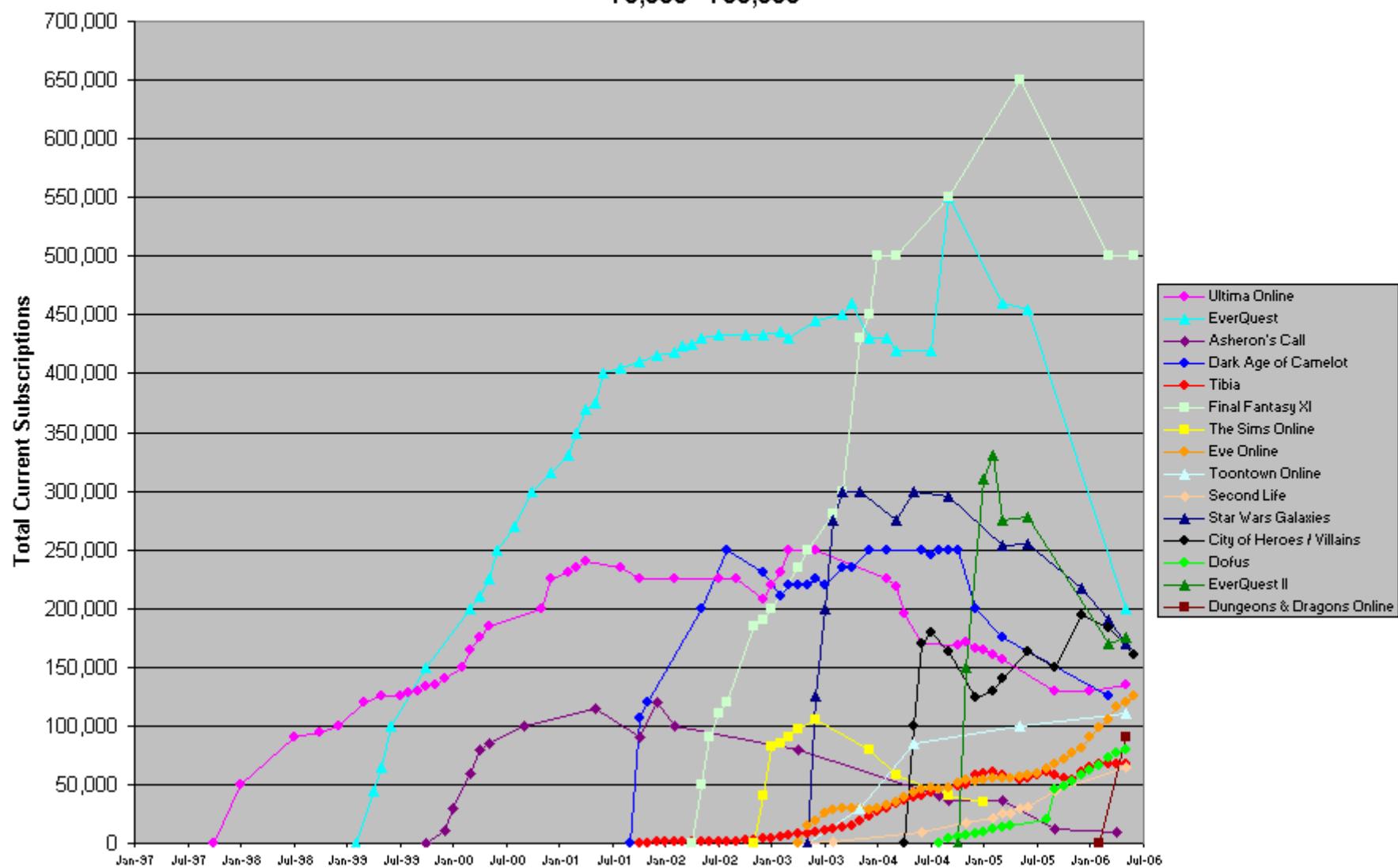


Das binäre Haus existiert nur in der CPU.
Binäre Striche sind inhaltsentleert.
Das binäre Haus selbst hat keine Dimension.
Das binäre Haus ist gegenstandslose, entmaterialisierte Architektur.
Ein binäres Haus ist baubar.
...
Das binäre Haus 1987 – Manfred Wolff-Plotegg



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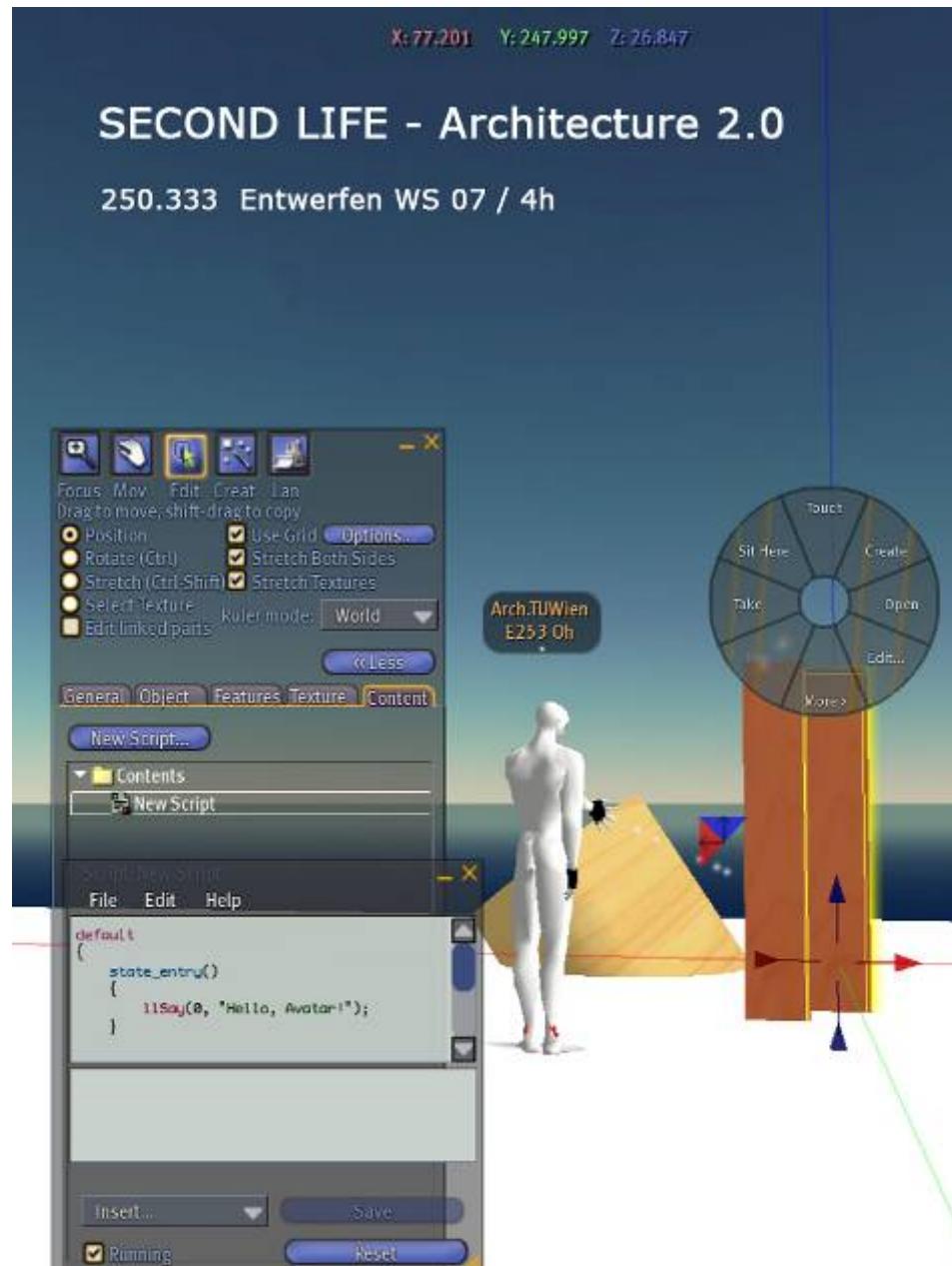
Tune in!



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HELP!



Manfred Wolff-Plottegg, Jochen Hoog
Institut für Architektur und Entwerfen Abt. Gebäudelehre

SCRIPTING ARCHITECTURE

ENTWERFEN SS/08

Anmeldung über TUWIS ++ 4 std

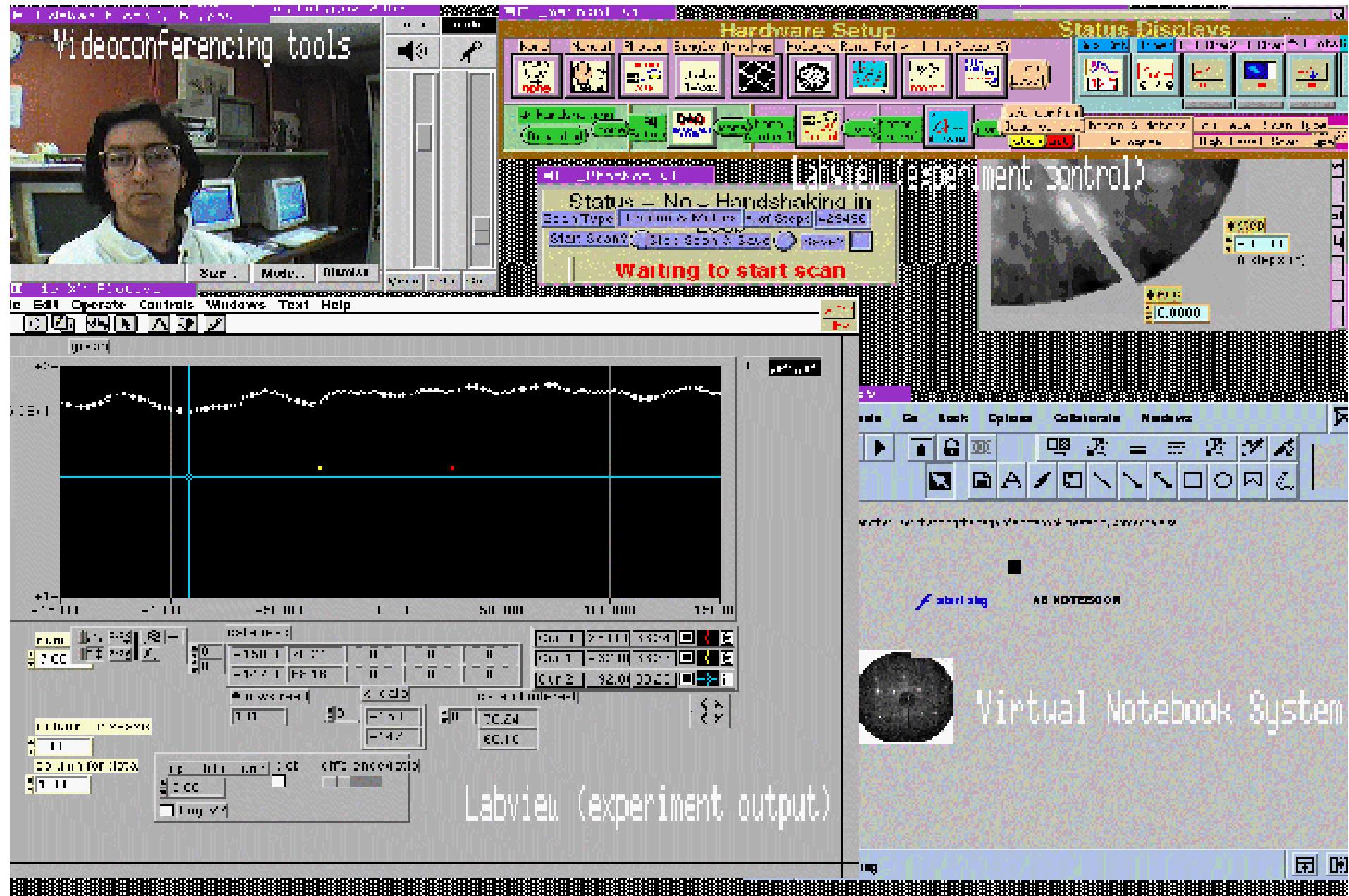
Betreuer: Manfred Wolff-Plottegg, Jochen Hoog

Einführung 06.03.2008 09:00-13:00 SR2

Pseudocode = Entwurfskonzept // Programmcode = Entwurf // „Running“ Code = Produkt
Einführung in die Grundlagen der Programmierung: Multi Agenten Systeme, Cellular Automata, Swarms and Flocks, Evolutionary Programming, Neural Networks, L-Systems, responsive and interactive architecture, parametric design and generative design.

www.gbl.tuwien.ac.at

Prototype Remote Operation Interface



Virtual Environments in Clinical Psychology and Neuroscience

*Methods and Techniques in
Advanced Patient-Therapist Interaction*



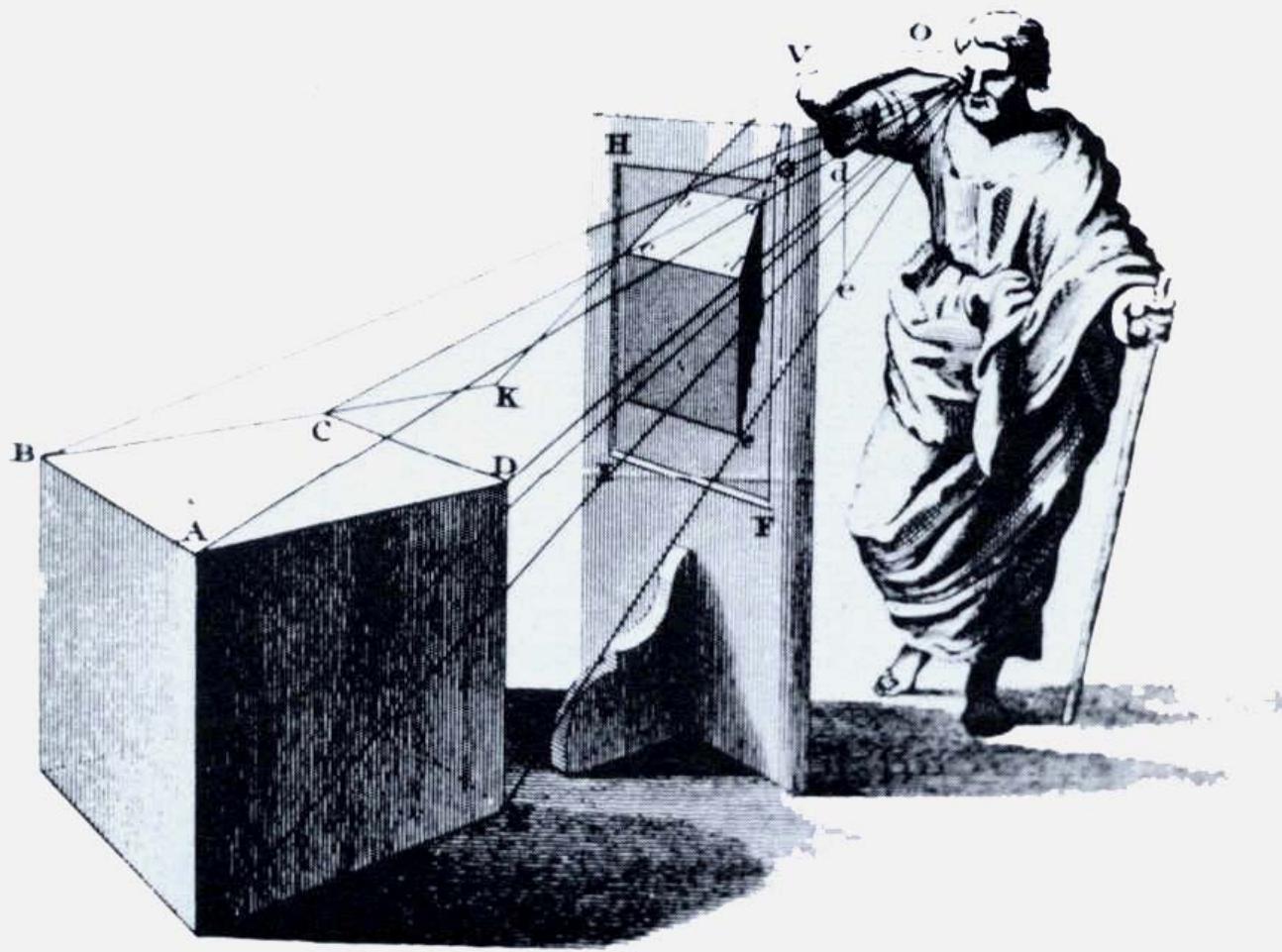
Editors: G. Riva
B.K. Wiederhold
E. Molinari

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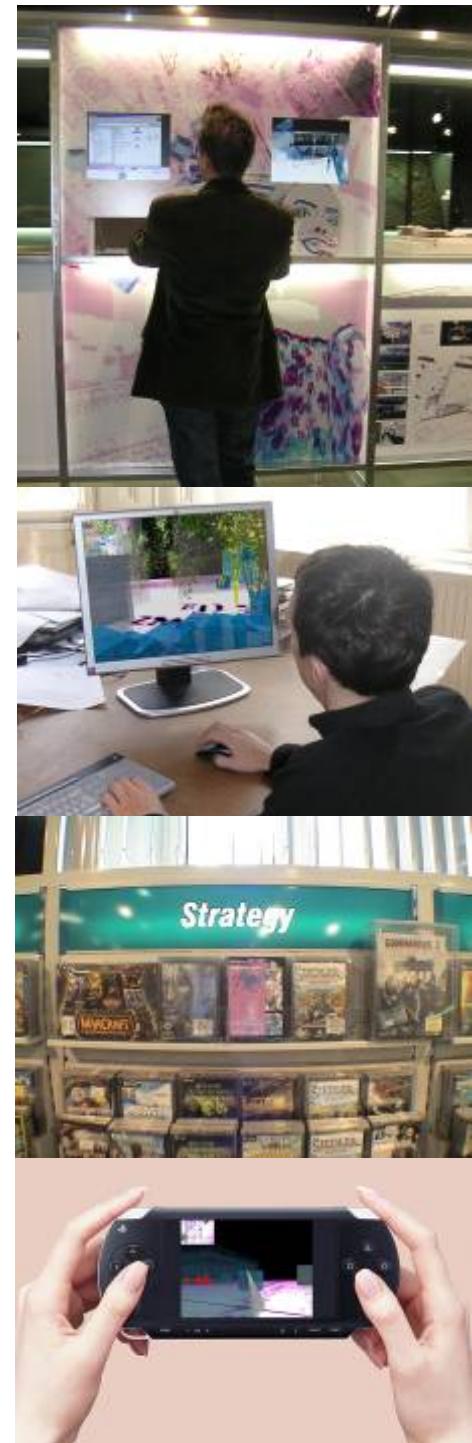
The visual cone, from B. Taylor, *New Principles of Linear Perspective* (1715).





www.matrix-poster.de

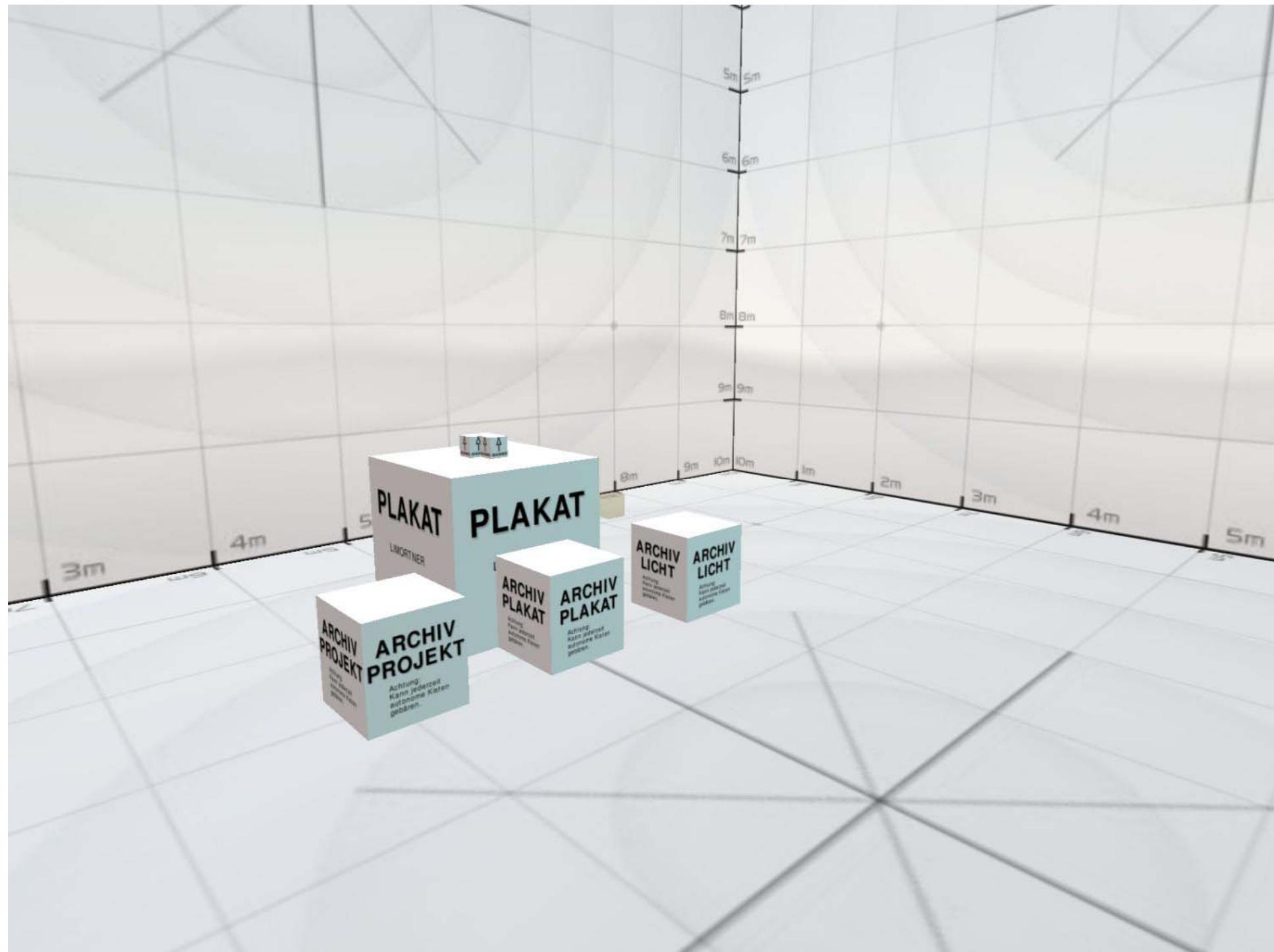
Instruction 1: ontological – Architecture_Engine_1.0



film: archtecture_engine_1.0

**Instruction 2:
architectural consciousness –
Archdiploma2007**

film: archdiploma2007



File Edit View World Tools Help Client Server arch.tuwien.128,128,54(PG) - arch.tuwien 4:45 AM PDT \$7,900

Script ConstructOrange.mscd

Description: 2007-06-01 19:25:13 lsl2 script

```

integer ARCHIVECHAN = -198801115;
string optBuild = "Build";
string optClean = "Clean";
string optStart = "START";

integer PRIMCHAN = -197306111;
integer MENU_CHANNEL = -69022;
integer MENU_HANDLE;

integer gbBuilt = FALSE;
integer gbVisitor = TRUE;

default
{
    state_entry()
    {
        //llMessageLinked(LINK_THIS , 0, optStart, "");
    }

    link_message(integer pISender, integer pINum, string pstrMessage, key pKey)
    {
        if (pstrMessage == optStart) {
            llSetTimerEvent(5);
        }

        if (gbBuilt) {
            if (pstrMessage == "VISITOR") {
                gbVisitor = TRUE;
            } else if (pstrMessage == "NO_VISITOR") {
                gbVisitor = FALSE;
            }
        }

        timer()
        {
            //Here we moving?
            if( gbBuilt )
            {
                if( !gbVisitor ) (
                    llMessageLinked(LINK_THIS , 0, optClean, "");

                    gbBuilt = FALSE;
                    llRegionSay(ARCHIVECHAN, "KILLING");
                    //llShout(0, "KILLING");
                    llSleep(5);
                    llDie();

                    llSetTimerEvent(10);
                )
            } else {
                llSetTimerEvent((integer)llFrand(30.0)+30);
            }
        }
    }
}

```

Save

Script ConstructOrange.mscd

Description: Kisten-Bootup-Script for ConstructOrange

```

float gfTimerInterval = 0.25;
integer ARCHIVECHAN = -198801115;
integer KISTENCHAN = -198801116;

string optStart = "START";

string optBuild = "Build";
string optClean = "Clean";
vector gvOffset;
rotation grRotation;
integer gbNeedMove;
vector gvDestPos;
rotation grDestRot;
integer gbRecorded = FALSE;

integer LISTEN_HANDLE;
integer giSyncID = 1 ; // NULL
integer gbVisitor = FALSE;
integer giFailCount = 0;

//#####
string first_word(string In_String, string Token)
{
    if(Token == "") Token = " ";
    integer pos = llSubStringIndex(In_String, Token);

    //Found it?
    if( pos >= 1 )
        return llGetSubString(In_String, 0, pos - 1);
    else
        return In_String;
}

//#####
string other_words(string In_String, string Token)
{
    if( Token == "" ) Token = " ";
    integer pos = llSubStringIndex(In_String, Token);

    //Found it?
    if( pos >= 1 )
        return llGetSubString(In_String, pos + 1, llStringLength(In_String));
    else
        return "";
}

//#####
gotoRandom()

if( !gbNeedMove )
{
    llSetTimerEvent(gfTimerInterval);
    gbNeedMove = TRUE;
}
return;
}

```

Save

Script ConstructOrange.mscd

Description: The Base-Script for ConstructOrange

```

announce_moved()
{
    if ( llGetCreator() == llGetOwner() ) (
        llRegionSay(PRIMCHAN, "MOVE" + "|" + (string)giSyncID + " " +
        llDumpList2String([ llGetPos(), llGetRot() ], "|"));
        llResetTime();
        vLastPos = llGetPos();
        rLastRot = llGetRot();
        return;
    )
}

default
{
    //#####
    changed(Integer change) {
        //llSay(0,"CHANGED? cobj!");
        if(change & CHANGED_OWNER) {
            //llSay(0,"CHANGED!! HORRORRR!!! AARRRRRRRRR!");
            llResetScript();
        }
    }
}

state_entry ()
{
    vLastPos = llGetPos();
    rLastRot = llGetRot();

    //MENU_HANDLE = llListen(MENU_CHANNEL,"","","");
    //PRIMCHAN = (integer)llFrand(-100000.0);

    giSyncID = (integer)llFrand(-10000.0);
}

touch_start (integer total_number)
{
    group = llDetectedGroup(0);
    agent = llDetectedKey(0);
    objectowner = llGetOwner();

    if ( (objectowner == agent) || (group && TRUE) ) (
        llRegionSay(PRIMCHAN, "RECORD" + "|" + (string)giSyncID +
        " " + llDumpList2String([ llGetPos(), llGetRot() ], "|"));
        llSetTimerEvent(gfShoutRate);
    )
}

timer()
{
    if( bMoving )
    {
        if( (llGetRot() != rLastRot) || (llGetPos() != vLastPos) )
        {
            if( llGetTime() > gfShoutRate ) (
                announce_moved();
            )
        }
    }
}

```

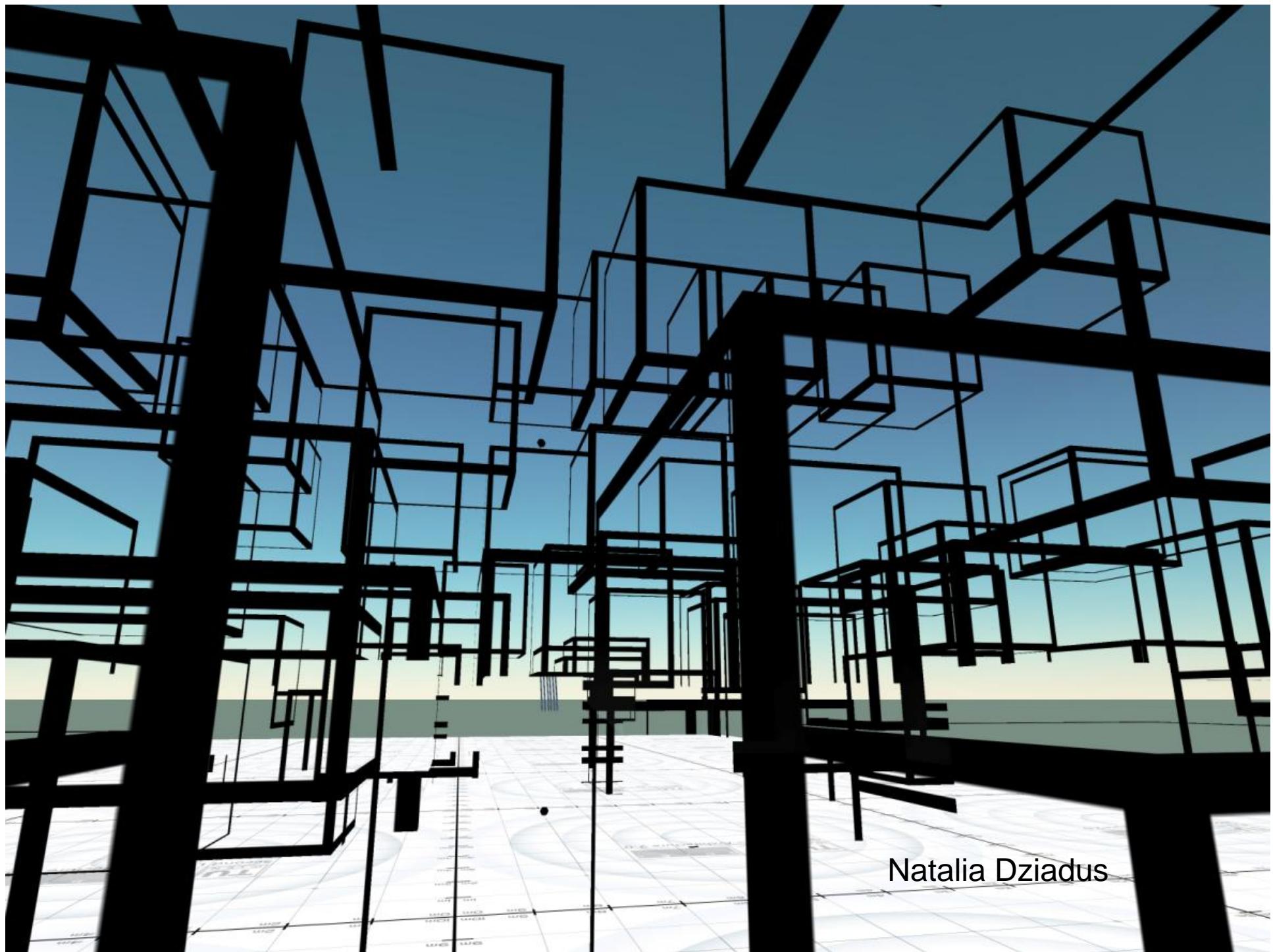
Save

Communicate Chat Stop Flying Snapshot Search Build Mini-Map Map Inventory

**Instruction 3:
open the virtual door**

film: entwerfen

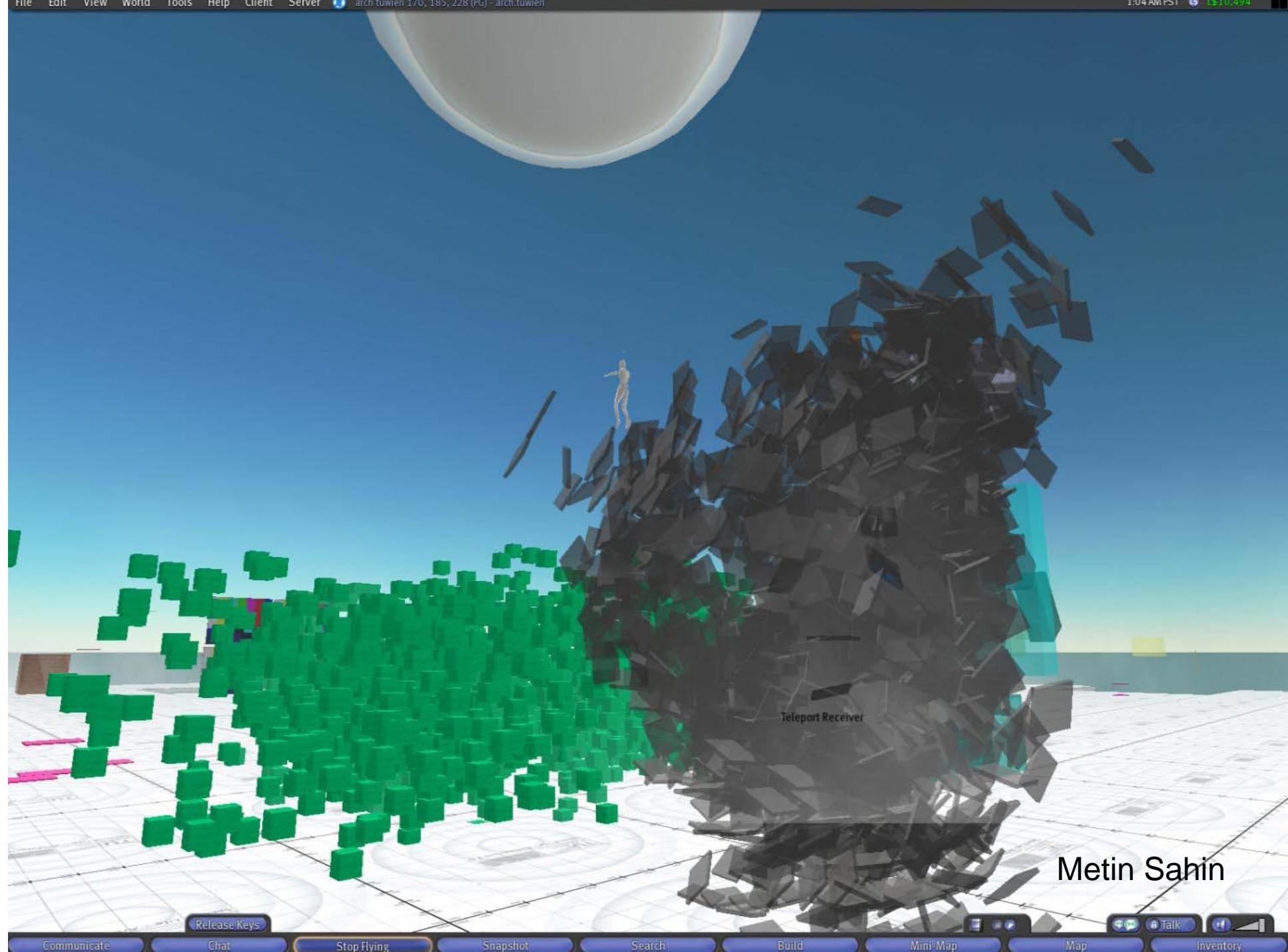
**Instruction 4:
parameter value!**

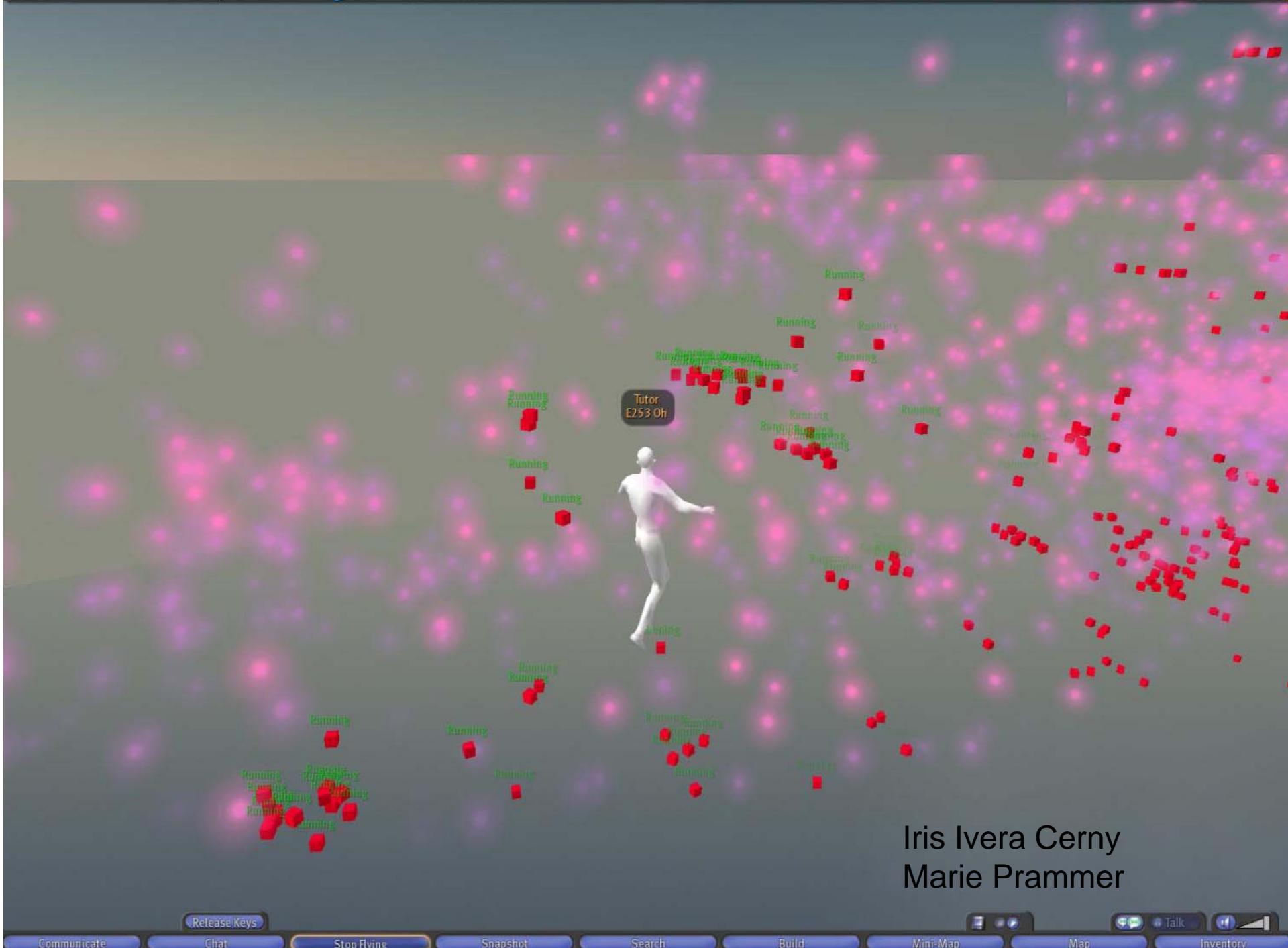


Natalia Dziadus



Lukas Antoni





Release Keys

Communicate

Chat

Stop Flying

Snapshot

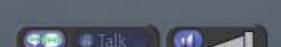
Search

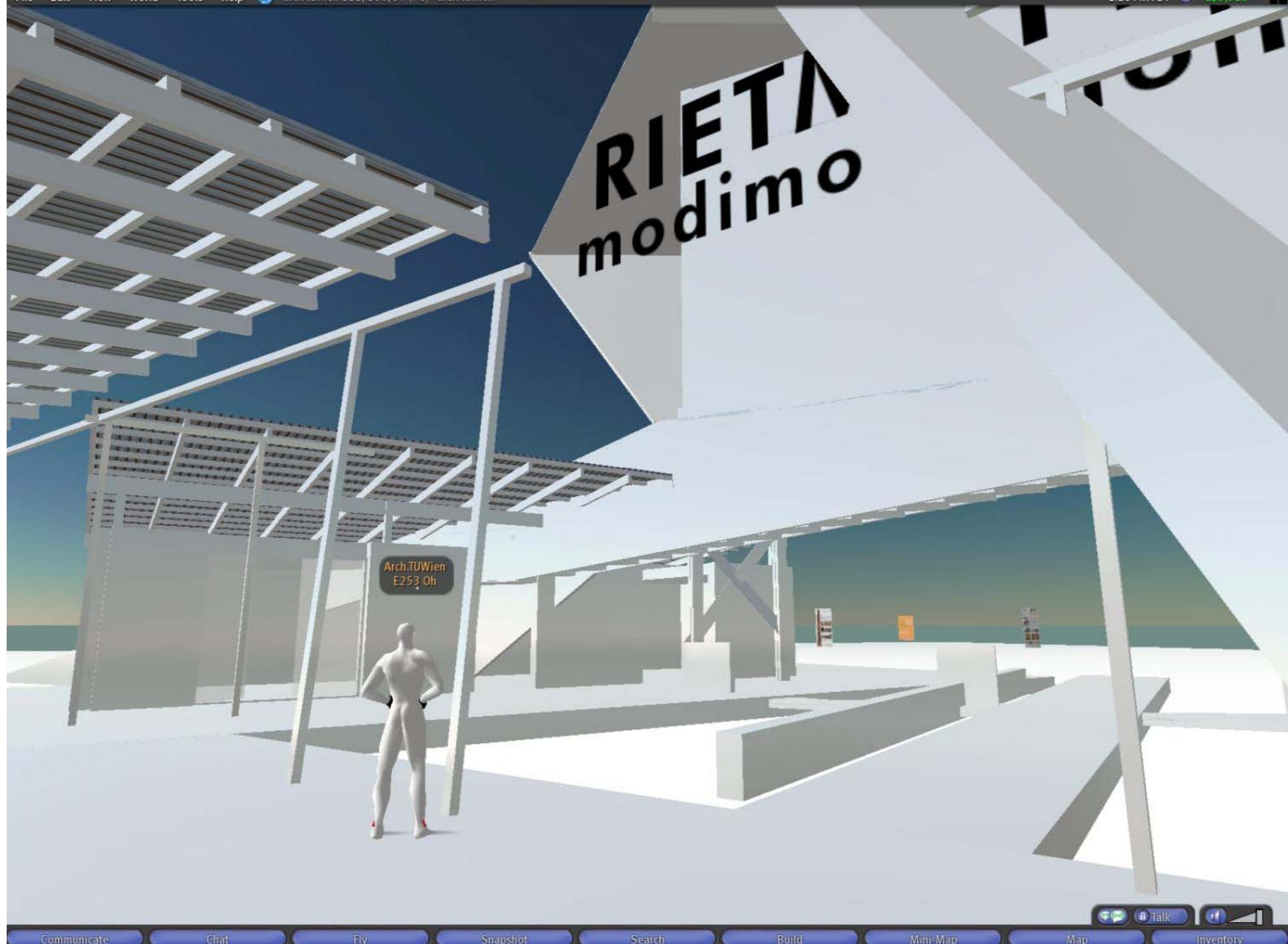
Build

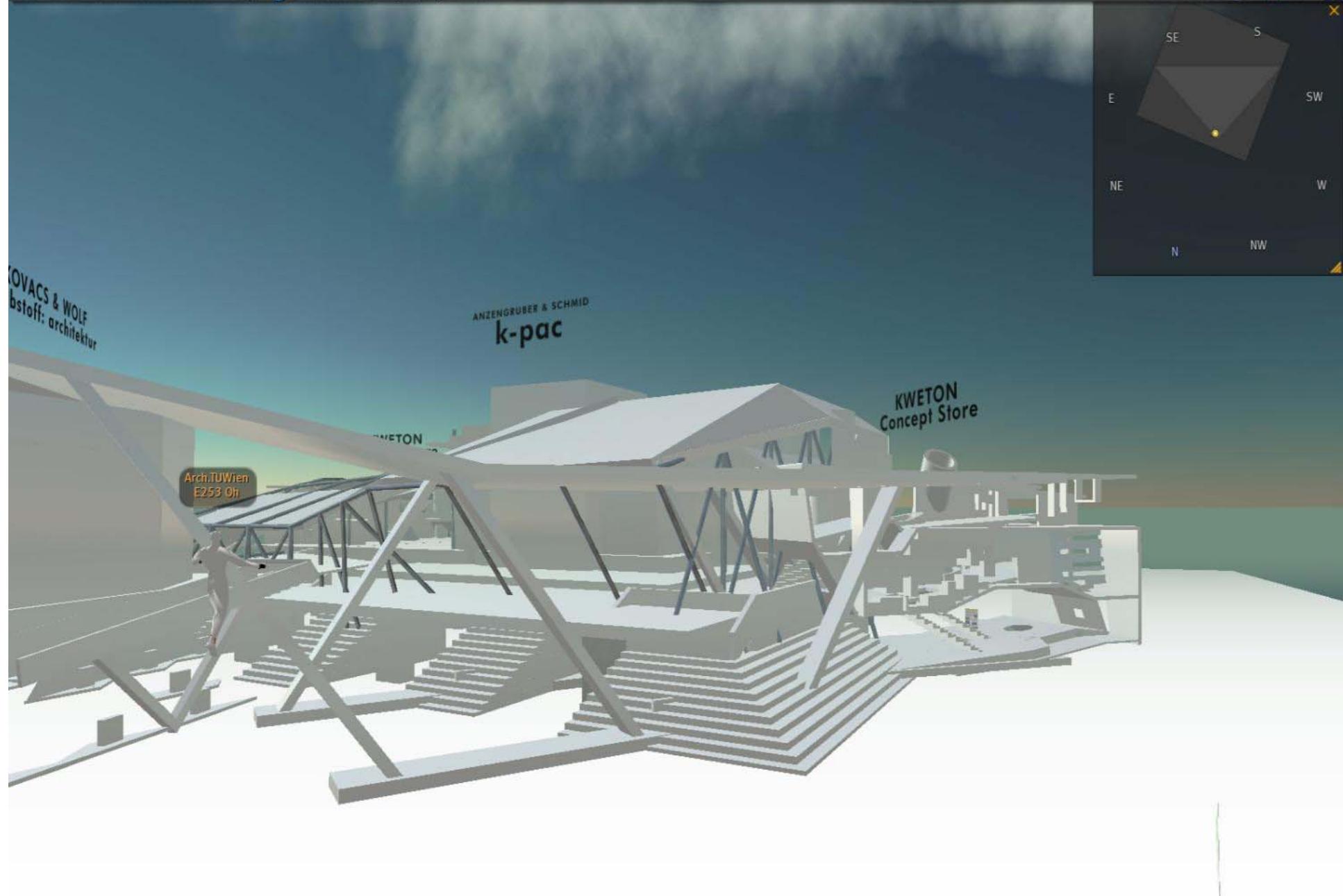
Mini-Map

Map

Inventory









Communicate

Chat

Fly

Snapshot

Search

Build

Mini-Map

Map

Inventory



thank you

acknowledgement:

institut of architecture and design - prof. plottegg

students of „Second Life - Architektur 2.0“