

## THE CYBER STUDIO\*

Setting up your own virtual  
rehearsal/writing/research environment for  
performance collaboration

User manual by

**Marko Plahuta**

From a project concept by

**Anna Furse with Zeljko Hrs**

\*This term was used by **Anna Furse, Artistic Director of Athletes of the Heart, UK**, who commissioned this programme to facilitate collaboration across 3 countries by a company of dispersed performers for the purposes of creating a text for her production **DON JUAN.WHO?/DON JUAN.KDO?** in 2007 with **Mladinsko Theatre, Ljubljana, Slovenia**. The production was funded by The **British Council**, the **Arts Council of England**, the **AHRC** and **The British Academy**. It premiered in Ljubljana in September and previewed at **The Shunt Vaults** in London on October 2007. Produced by **ArtsAgenda**, Executive producer Mik Flood, further touring, including to the UK is planned for 2008 with **FeEAST** and beyond. For further information visit: [www.athletesoftheheart.org](http://www.athletesoftheheart.org) where a link to the original Don Juan site can also be found.

# Contents

Contents .....	2
Introduction.....	3
Components of collaborative environment.....	3
Upstage .....	5
Purpose of Upstage software package .....	5
Installation of Upstage as a server application.....	6
Setting Up An UpStage Linux Server For Windows Users .....	6
Dual boot.....	6
Resizing an NTFS partition.....	7
Installing Debian Linux .....	8
Boot from CD-ROM .....	8
Continuing Setup.....	10
Installing Packages.....	11
Lame .....	13
SWFTools.....	14
Voices for festival .....	15
Installing UpStage itself .....	19
Setting up and customising a blog at Blogger.....	20
Setting up a blog at Blogger.....	20
Registering with personal information.....	21
Choosing a name and a subdomain name .....	22
Customizing the blog appearance.....	23
Choosing a graphic theme and layout .....	23
Customizing the general information about the authors and mission purpose ..	24
Adding blog co-authors.....	25
Customizing graphic theme .....	26
Detailed editing – customizing HTML in graphic theme.....	27
File exchange .....	28
Uploading a file .....	28
Downloading a file.....	28
Possible improvements .....	29
Upstage.....	29
Blog and file exchange applications .....	29

## Introduction

The manual explains basic procedures to create an interactive, multiuser computer environment for collaboration in groups with an emphasis on live performance creation ( though it may be used simply for collective research and/or cyber-performance). It also details main software requirements for setting up such an environment. The purpose of the environment we created was to enable a group of artists scattered around the world to collaborate on a theatrical piece. In our project anonymity was essential in our collaborative online writing process. As was the possibility of storing our live writing sessions for future editing. We found the Upstage programme extremely user friendly, and eventually worked more in the dialogue box than the stage, though avatars did assist in our 'masquerade'. The 'Cyber Studio' assembled by Marko Plahuta was conceived to mimic all the requirements of an ideal theatrical research environment ie a space for live practice, a space to record and store such practice, a space for reflective writing and a facility for collecting research in various media. We also wanted to have a public face during our two year research process, which was our blog. The Studio provided:

## Components of collaborative environment

**Upstage** - a tool for writing the show/ live improvisation and/or rehearsal

**Blog** - a multiuser blog that worked as a publishing platform for the authors and actors to publish their thoughts, comments, questions and creative material.

**File repository** – a multiuser environment to store Word documents, pictures, movies and all material that for various reasons (size, ease of publishing, creative reasons) was not suitable for the blog.

# Upstage

## ***Purpose of Upstage software package***

To enable the real-time interaction between actors, we decided to use Upstage, which is a software package for online performance. It's an open source server application and works as a web venue for theatre shows.

Online audiences anywhere in the world participate in live performance events by going to a web page, without having to download and install any additional software.

Players (logged-in performers) have a variety of tools at their disposal on the stage, which allow the manipulation of their online personalities, backgrounds and props which have been previously created and made available in the online repository of the application. Avatars' speech appears as speech bubbles on stage and is spoken aloud by built-in functionality. Players can also draw directly onto the stage in real time, so they have a variety of tools for creative expression.

## ***Installation of Upstage as a server application***

### **Setting Up An UpStage Linux Server For Windows Users**

Documentation surrounding how to get Linux set up with all the required "packages" for UpStage. This documentation is aimed at those with technical knowledge who aren't familiar with Linux, and is based on the experience of using Debian Linux 3.1 (Sarge) as the existing server is running Debian Linux. The first section on dual boot is only relevant if you are not running a dedicated UpStage server.

These notes were compiled by the UpStage Project Team, Auckland University of Technology, May 2006. Team members are Beau Hardy, Lucy Chu, Francis Palma and Wise Wang.

Contents:

1. Dual Boot
2. Installing Debian Linux
3. Installing Packages
4. Installing UpStage itself

### **Dual boot**

It is highly recommended that you familiarise yourself with what partitions are and how they work before continuing.

During development, it is useful to have the UpStage server and Linux running side by side. If you wish to dual boot Windows/Linux you need to install Windows first.

You should either leave room for the Linux partition (preferred) or resize the windows partition later.

## **Resizing an NTFS partition**

Note that when performing this operation, there is a chance that data will be lost. You should do a complete backup before continuing.

Download a Knoppix ISO image (<http://www.knoppix.org> used version 3.7) & burn to CD-ROM.

Boot from CD-ROM. If the computer will not boot from CD-ROM, you may need to change the boot order in the computer BIOS – set the computer to boot from CD-ROM before the hard disk.

If you have an SATA drive, when prompted with the “boot:” message you may need to enter “linux26”. This starts the newer kernel which has support for new drivers including SATA. Otherwise just press Enter. A “no hard disk found” message from the QTParted program is generally indicative that the hard disk driver has not been loaded correctly.

1. Wait for the Knoppix GUI to finish loading.
2. Click on the “K” menu in the bottom left corner.
3. Click the system menu.
4. Click on the QTParted program which is a graphical, user friendly partition editor.
5. Select a disk, select the partition to be resized.
6. Right click with the mouse & choose resize.
7. Select the new partition size.
8. Commit your changes in the File-> Commit menu.
9. If your keyboard and mouse stop responding, please be patient the operation may take a long time.
10. Click on the “K” menu.

11. Click on “Logout”
12. Click on “Turn off computer”.
13. Remove the CD-ROM when prompted.
14. Start the computer again without the CD-ROM inserted to start Windows. You may get a message from CHKDSK that it is checking drives, this is expected.
15. Windows should complete booting normally.

Use the Windows explorer to check that all partitions are the expected size and all data is still present (Right click on each drive and then click Properties).

### **Installing Debian Linux**

You should ideally install Linux on a computer with no operating system installed (blank hard disk). There is a risk that data will be lost. You should do a full backup before attempting to install Linux. There should be a blank hard disk, or non partitioned space available to install Linux as per the “Resizing an NTFS partition” instructions above.

If your computer is on a network, ensure that the network cable is attached.

### **Boot from CD-ROM**

If you have an SATA drive, you may need to Enter “linux26” when prompted with “boot:” message. This starts Linux with driver support for newer drivers including SATA drives. Otherwise, just press Enter.

Select the language using the arrow keys (English). Press Enter

Select the country using the arrow keys (New Zealand). Press Enter.

Select the keyboard layout (American English).



Debian will prompt for a host name. This is the name on the network. Then press Enter. Debian will prompt for a domain name. Then press Enter. Debian will ask where to install. This step may not appear if installing on a blank disk rather than using dual boot. Press Enter.

Debian will ask about the partitioning scheme - how many partitions should be created. (Used "All files in one partition").

Debian will display information about partitions and ask for confirmation. (Selected "Finish partitioning and write changes to disk").

Debian will ask for final confirmation. Use the left/right arrow keys to move to Yes and press Enter. Debian setup will continue.

If you are installing to a computer with no operating system installed, this step will not appear. If you are doing a dual boot install Debian should inform you that it has found the Windows operating system and ask you to confirm that this is the only operating system installed. Select Yes using Enter if Windows is the only other operating system installed.

Debian setup should inform you that it is complete. Remove the CD-ROM and reboot. You may now wish to change the boot order in the BIOS so that the CD-ROM is not longer the first device checked when booting.

## Continuing Setup

If you run into big problems, the setup can be started from this point again. Switch to console CTRL + ALT + F1 log in as root and run base-config.

The computer should now start up in Linux and you will receive a welcome message.

1. Reply Yes to the question "Is the hardware clock set to GMT".
2. Select your time zone (Used Pacific / Auckland).
3. Select a root password. This should not be easy to guess and should contain both  
both
4. letters and numbers.
5. Enter a username for the user (Used upstageuser).
6. Enter a name for the user account (Used upstageuser).
7. Enter a password for the user account. This should be different from the root password and again should be a mixture of both letters and numbers.
8. Select the access method for ATP (Used CD-ROM).
9. Debian will now build a list of files from the set of CD-ROMS. Put the first CD-
10. ROM in the drive when prompted and press Enter.
11. Put every CD-ROM in the Debian set into the CD-ROM in turn when  
prompted. The
12. message presented here is a little ambiguous, but you must put each CD-  
ROM in the
13. drive and let Debian read it, in order to build a file index.
14. If you do not have direct Internet access, you will receive a message stating  
that ATP
15. cannot access this is expected.

16. Insert the first CD-ROM again when prompted.
17. Debian will ask what packages it needs to install. Select “Desktop Environment” and
18. “Web Server” using the space bar and press enter.
19. Select Vesa for the X-Windows graphics driver. This should work on most modern
20. hardware (post 2001).
21. Select Use the Kernel frame buffer when prompted.
22. Select Yes to attempt mouse auto detection.
23. Select Yes to attempt monitor auto detection.
24. Computer should prompt to reboot when setup is complete.

If you do not get a desktop display or get any error messages about XServer you can run the following as root to reconfigure the graphics card / monitor manually “dpkg-reconfigure xserver-xfree86”. You should set the maximum resolution to 1024x1280 here.

## **Installing Packages**

You need to install the following packages using the Synaptic Package manager.

Some packages are already installed. Some packages have dependencies which will be automatically installed when you select a parent package.

Start the package manager from the menu: System Tools -> Synaptic Package Manager. Enter the root password when prompted.

Steps used to search for packages:

1. Close the “Quick Introduction” window

2. Click "Search" in the menu
3. Enter a package name in the search window.
4. Right click and choose "Mark For Installation" to install or right click and choose "Mark For Removal" to uninstall.

Note: Green mark before the package means it is already installed.

Packages to install:

1. python (version 2.3.5-2)
2. twisted
  - a. Python2.3-Twisted (version 1.3.0-8)
  - b. Python2.3-Twisted-bin (version 1.3.0-8)
3. festival (version 1.4.3-16)
  - a. Festival-doc (version 1.4.2-2)
  - b. festvox-kallpc16k (version 1.4.0-5)
  - c. festvox-kdlpc16k (version 1.4.0-5)
  - d. festlex-cmu (version 1.4.0-6)
  - e. festlex-poslex (version 1.4.0-5)
4. netpbm (version 2:10.0)
5. gif2PNG (version 2.4.7-4)
6. tct (version 1.11-6.1)

Third party packages (below)

- 1.lame (version 3.96.1-1)
- 2.swftools (version 0.7.0)

### 3.festival voices

#### **Lame**

Download lame from <http://www.sourceforge.net/projects/lame> (Used version 3.96.1)

and save in a temporary location (will be installed to /usr/local/bin/lame).

1. Start a terminal session as root.
2. Unzip lame
3. gunzip lame-3.96.1.tar.gz
4. Extract from the tar file
5. tar -xvf lame-3.96
6. Change to the directory that was created
7. cd lame-3.96.1
8. configure the environmental variables
9. ./configure
10. Make and install the library
11. make install
12. Change back to the previous directory
13. cd ..
14. Create a link so that lame can be found by all programs
15. ln -s /usr/local/bin/lame /usr/bin/lame
16. ln -s /usr/local/lib/libmp3lame.so.0 /usr/lib/libmp3lame.so.0

## **SWFTools**

Download from <http://www.swftools.org/> (Used version 0.7.0) and save in a temporary location. Start Synaptics Package Manager and install the following headers/libraries needed for:

1. swftools-0.7.0
2. zlib1g-dev
3. libjpeg62-dev
4. t1lib-dev
5. libungif4-dev
6. libfreetype6-dev
7. libgdbmg1
8. Start a terminal session as root.
9. Extract from tar file
10. tar -xzf swftools-0.7.0.tar.gz
11. Change to the directory that was created
12. cd swftools-0.7.0
13. configure the environmental variables
14. ./configure
15. Make and install the library
16. make install
17. Change back to the previous directory
18. cd ..

## Voices for festival

UpStage uses voices from several different places. These need to be sourced and configured independantly. The voices used include

en1\_mbrola

us1\_mbrola

us2\_mbrola

us3\_mbrola

kal\_diphone

ked\_diphone

don\_diphone

rab\_diphone

rsynth

1. Install rsynth sourced from <http://packages.debian.org>
2. `dpkg -i rsynth_2.0-6_i386.deb`
3. Install some native festival voices (diphone) sourced from <http://packages.debian.org>
4. `dpkg -i festlex-oald_1.4.0-3_all.deb`
5. `dpkg -i festvox-ralpc16k_1.4.0-2_all.deb`
6. `dpkg -i festvox-don_1.4.0-4_all.deb`
7. Install the mbrola binaries sourced from <http://www.cstr.ed.ac.uk/projects/festival/mbrola.html>
8. `dpkg -i mbrola-es1_i386.deb`
9. Save mbr301h.zip to a temporary directory, Unzip and copy it to `/usr/bin/mbrola`
10. `unzip mbr301h.zip`

11. `cp mbrola-linux-i386 /usr/bin/mbrola`
12. Install some voices for mbrola sourced from  
`http://tcts.fpms.ac.be/synthesis/mbrola.html`. Save
13. all zip files in a temporary directory unzip and copy to `/usr/share/mbrola`:
14. `unzip en1-980910.zip`
15. `unzip us1-980512.zip`
16. `unzip us2-980812.zip`
17. `unzip us3-990208.zip`
18. `cp -r * /usr/share/mbrola`
19. `rm /usr/share/mbrola/en1-980910.zip`
20. `rm /usr/share/mbrola/us1-980512.zip`
21. `rm /usr/share/mbrola/us2-980812.zip`
22. `rm /usr/share/mbrola/us3-990208.zip`
23. Install festival wrappers for mbrola voices. Save files in a temporary directory  
sourced from `http://www.cstr.ed.ac.uk/downloads/festival/1.95/`
24. `tar -xzf festvox_en1.tar.gz`
25. `tar -xzf festvox_us1.tar.gz`
26. `tar -xzf festvox_us2.tar.gz`
27. `tar -xzf festvox_us3.tar.gz`
28. `cp -r festival/lib/voices/english/* /usr/share/festival/voices/english`
29. Copy the mbrola voices into festival wrappers above
30. `cp en1-980810.zip /usr/share/festival/voices/english/en1_mbrola`
31. `cp us1-980512.zip /usr/share/festival/voices/english/us1_mbrola`
32. `cp us2-980812.zip /usr/share/festival/voices/english/us2_mbrola`
33. `cp us3-990208.zip /usr/share/festival/voices/english/us3_mbrola`



```
34. cd /usr/share/festival/voices/english/en1_mbrola
```

```
35. unzip en1-980910.zip
```

```
36. rm en1-980810.zip
```

```
37. cd ../us1_mbrola
```

```
38. unzip us1-980512.zip
```

```
39. rm us1-980512.zip
```

```
40. cd ../us2_mbrola
```

```
41. unzip us2-980812.zip
```

```
42. rm us2-980812.zip
```

```
43. cd ../us3_mbrola
```

```
44. unzip us3-990208.zip
```

```
45. rm us3-990208.zip
```

Test that the voices were installed correctly. Run festival.

```
/usr/bin/festival
```

All voices mentioned in the outline above should appear when the following command is entered into festival (voice.list)

Select a new voice and say something using that voice. UpStage does not need a sound card installed to operate. This command will only work if the computer has a sound card which has been configured and sound is turned off under the desktop manager. Error messages about accessing /dev/dsp are indicative that sound is not configured. Ensure that you get sounds from the GNOME desktop, then turn desktop sounds off temporarily by deselecting Applications > Desktop Preferences > Sound > Enable Sound Server at Startup.

```
(voice_en1_mbrola)
```

```
(SayText "Say something")
```

Choose another voice and say something

(voice\_us2\_mbrola)

(SayText "Say something")

Macromedia flash player web browser plug in (for Linux Mozilla et al.) This is required only if you want to view UpStage web pages on the server (not likely unless you are doing development). Download from

[http://www.macromedia.com/shockwave/download/index.cgi?PI\\_Prod\\_Version=ShockwaveFlash](http://www.macromedia.com/shockwave/download/index.cgi?PI_Prod_Version=ShockwaveFlash)

## Installing UpStage itself

Download from <http://www.sourceforge.net/projects/upstage> and save in a temporary location. Log in as root. You need to make a directory to put the upstage in and then set the permissions so that the upstage user has permissions to use the files.

1. `cd /usr/bin`
2. `mkdir Upstage`
3. `chown upstageuser Upstage`
4. `cd Upstage`
5. `mv /home/upstageuser/Upstage-2004-09-28.tar .`
6. `chown upstageuser Upstage-2004-09-28.tar`
7. `exit`
8. `exit`
9. Log in as upstageuser (NOT root)
10. `cd /usr/bin/Upstage`
11. `tar -xvf Upstage-2004-09-28.tar`
12. `cd Upstage`
13. `mktap upstage`
14. `twistd -f upstage.tap`
15. `./go.sh`

Finally, open a web browser on the server and point it at `http://localhost:8081/`

The UpStage webpage should appear.

## Setting up and customising a blog at Blogger

There are many providers of free blog space. We chose to use the Blogger platform because it's easily customizable, it offers extended publishing options, and it enables more authors to contribute to the project.

One of the main purposes of publishing material on a blog was to find a workable alternative to a bulletin system or a message board application. Main drawbacks of BBS or message board solutions are fragmentation of knowledge in different topics and diminished ability of contributors over time to efficiently organize and find the published material.

Blog is also an already organized or self-organizing publishing platform, so whenever a visitor takes a look at the published material, it's already organized and formatted in an rational and efficient way that's easily digestible even for users with minimal computer knowledge.


### ***Setting up a blog at Blogger***

Setting up a blog is as easy as going to the main Blogger website

(<https://www.blogger.com/start>) and following the instructions to create a blog.


One does this by entering personal information like e-mail address, setting up a password and subdomain name (e.g. **theatre**.blogspot.com), choosing a layout of information on the screen from predefined templates and a starting graphic theme that can be easily modified later.

## Registering with personal information






1 USTVARITE RAČUN ▶ 2 POIMENUJTE SPLETNIK ▶ 3 IZBERITE PREDLOGO

### 1 Ustvarite Googlov račun



S tem postopkom boste ustvarili Googlov račun, ki ga lahko uporabite tudi pri drugih Googlovih storitvah. Če že imate račun pri Googlu, morda pri storitvah Gmail, Google Groups ali Orkut, se prosim [najprej vpišite](#)

E-naslov (mora že obstajati)	<input type="text" value="vito.solipsy@gmail.com"/>	Ta naslov boste uporabljali za prijavo v storitev Blogger in druge Googlove storitve. Brez vašega dovoljenja ga ne bomo nikoli izdali drugim osebam.
Ponovno vnesite e-poštni naslov:	<input type="text" value="vito.solipsy@gmail.com"/>	Ponovno vpišite svoj e-poštni naslov, da ne bo zatipkanih napak.
Vnesite geslo	<input type="password" value="*****"/> <a href="#">Moč gesla:</a>	Dolžina mora biti vsaj 8 znakov.
Še enkrat vtipkajte geslo	<input type="password" value="*****"/>	
Prikazno ime	<input type="text" value="solipsy"/>	Ime, s katerim boste podpisani pod svojimi vnosi v blogu.
Preverjanje z besedo	 <input type="text" value="dsmsili"/> 	Vnesite znake, ki jih vidite na levi sliki.
Sprejetje pogojev	<input checked="" type="checkbox"/> Sprejem <a href="#">pogoje storitve</a>	Navedite, da ste prebrali in razumete Bloggerjeve pogoje storitve.

**NAPREJ** 

1. Enter your existing e-mail address and repeat it in next field.
2. Choose a password for security reasons repeat it in next field.
3. Enter security code.
4. Accept the terms by clicking the box.


## Choosing a name and a subdomain name

The screenshot shows the Blogger interface for naming a blog. At the top, the Blogger logo and 'Push-Button Publishing' are visible. Below the logo, a progress bar indicates three steps: 1. USTVARITE RAČUN, 2. POIMENUJTE SPLETNIK (selected), and 3. IZBERITE PREDLOGO. The main heading is '2 Poimenujte svoj spletnik'. There are three input fields: 'Naslov spletnika' with 'solipsy', 'Naslov spletnega dnevnika (URL)' with 'http://solipsy.blogspot.com', and 'Preverjanje z besedo' with 'vdadoe'. A security code 'vdadoe' is shown in a box with an ampersand. An 'ALI' section contains a text box with advanced settings. A large orange arrow labeled 'NAPREJ' is at the bottom right.

**Blogger™** Push-Button Publishing

1 USTVARITE RAČUN ▶ 2 POIMENUJTE SPLETNIK ▶ 3 IZBERITE PREDLOGO

### 2 Poimenujte svoj spletnik

Naslov spletnika	<input type="text" value="solipsy"/>	Vnesite naslov spletnika.
Naslov spletnega dnevnika (URL)	<input type="text" value="http://solipsy.blogspot.com"/> <a href="#">Preveri razpoložljivost</a>	Vi in ostali boste tako lahko brali spletnik in objavljali povezave do njega.
Preverjanje z besedo	 <input type="text" value="vdadoe"/> &	Vnesite znake, ki jih vidite na sliki.
<b>ALI</b>	Želite svoj spletnik gostiti kje drugje? Poskusite <a href="#">Napredno namestitev spletnika</a> . Tako boste lahko svoj spletnik gostili kje drugje in ne na mestu Blogspot.	

**NAPREJ**

1. Choose a name for your blog and enter it in the first field on this screen.
2. Choose a subdomain name that can be same as your blog name, but it can differ.
3. Enter security code and proceed to the next step.

## Customizing the blog appearance

### Choosing a graphic theme and layout

**1** POIMENUJTE SPLETNIK **2** IZBERITE PREDLOGO

## 2 Izberite predlogo

Izberite videz po meri za svoj spletnik

Predlogo lahko preprosto zamenjate pozneje ali celo ustvarite svojo predlogo po meri, ko bo vaš spletnik pripravljen.

**Minima**  
Ustvaril/-a: Douglas Bowman  
[predogled predloge](#)

**Minima Black**  
Ustvaril/-a: Douglas Bowman  
[predogled predloge](#)

**NAPREJ**

1. Choose a graphic template form your blog from the catalog. If you want to modify the template, chose one that looks as close to your desired one as possible, then proceed to the next step.

## Customizing the general information about the authors and mission purpose

<a href="#">Objavljanje</a>	<b>Nastavitve</b>	<a href="#">Predloga</a>	<a href="#">Ogledspletnika</a>				
Basic	<a href="#">Objavljanje</a>	<a href="#">Oblikovanje</a>	<a href="#">Komentarji</a>	<a href="#">Arhiviranje</a>	<a href="#">Vir spletišča</a>	<a href="#">E-pošta</a>	<a href="#">Dovoljenja</a>

**Naslov:**

---

**Opis**

največ 500 znakov

---

**Želite svoj spletni dnevnik dodati na naše sezname?**

S prikazanim spletnim dnevnikom se lahko povežete s spletnega mesta Blogger.com, npr. domača stran Bloggerja, Blogger Play in Naslednji spletni dnevnik. Če izberete "Ne", vaš spletni dnevnik ne bo prikazan na teh mestih, še vedno pa bo na voljo v internetu. Ta spletni dnevnik bo še vedno prikazan v vašem profilu, razen če ga skrijete. [Uredi prikazane spletne dnevnike.](#)

---

**Ali naj iskalni mehanizmi najdejo vaš spletni**

Here you can enter or change general information about your blog, for instance some words about the author and the purpose of the blog, you can add an one-line statement for marketing purposes, ...

On this page it's also possible to enter the blog address in search engines and do other administrative stuff.



## Adding blog co-authors



### Avtorji spletnika

1 avtor lahko objavlja v ta spletnik

[Dr. Easy](#)      [vito.solipsy@gmail.com](mailto:vito.solipsy@gmail.com)    skrbnik

Povabite več ljudi k pisanju v vašem spletniku

Vnesite e-naslove ljudi, katerim želite omogočiti, da pišejo v vaš spletnik

### Bralci spletnika

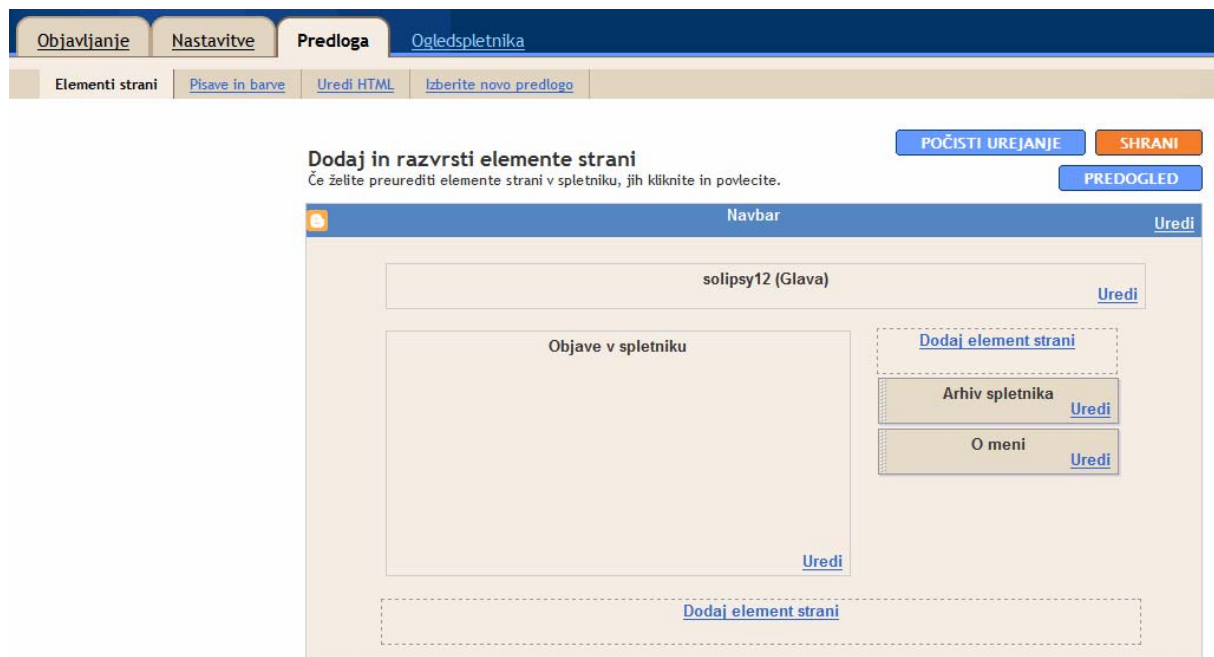
Kdo si lahko ogleda ta spletnik?

Kdor koli     Le osebe, ki jih izberem     Samo avtorji spletnika

On the last subtab in the **Settings** tab, you can enable the multiauthor feature.

Click **Invite** (orange button) and enter e-mail addresses of people you wish to invite to contribute to your blog. Enter one e-mail address per line. The Blogger system will send the invitations and guide your coauthors through the sign-in process.

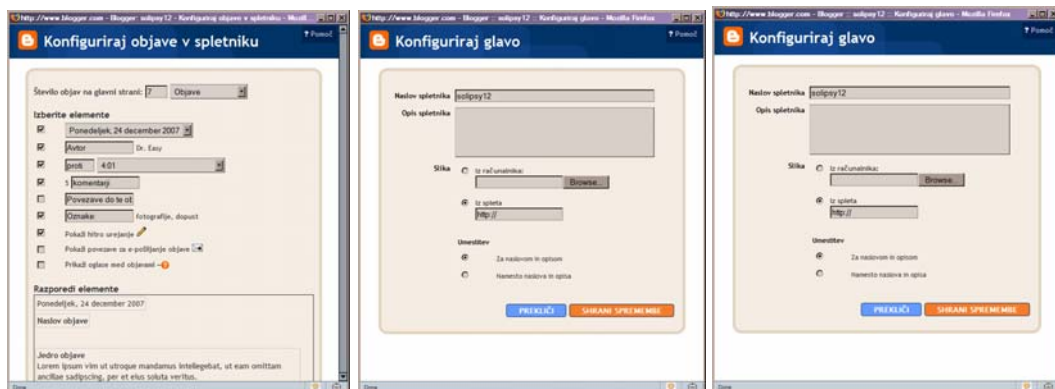
## Customizing graphic theme



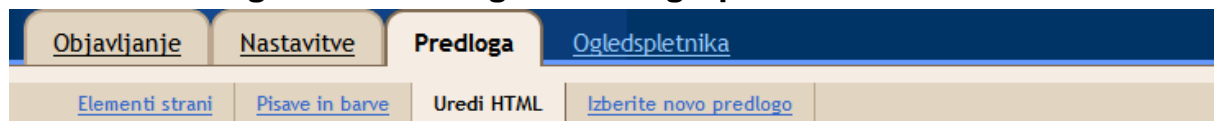
To do this, use the **Template** tab on the Settings page, **Page elements** menu entry.

Here you can drag and drop page elements to desired place, such as **About the author** or **Archives** paragraphs, header, footer and body text.

It's also possible to configure details of all these sections, the following screens lets you configure details for the body text, header and archive:



## Detailed editing – customizing HTML in graphic theme



### Varnostno kopiraj/obnovi predlogo

Pred urejanjem predloge lahko shranite njeno kopijo. [Prenos celotne predloge](#)

Naložite predlogo iz datoteke na trdem disku:

### Uredi predlogo

Uredite vsebino predloge. [Več o tem.](#)

Razširi predloge pripomočka

```
<div id='header-wrapper'>
  <b:section class='header' id='header' maxwidgets='1' showaddelement='no'>
<b:widget id='Header1' locked='true' title='solipsy12 (Glava)' type='Header' />
</b:section>
</div>

<div id='content-wrapper'>

  <div id='crosscol-wrapper' style='text-align:center'>
    <b:section class='crosscol' id='crosscol' showaddelement='no' />
  </div>

  <div id='main-wrapper'>
    <b:section class='main' id='main' showaddelement='no'>
<b:widget id='Blog1' locked='true' title='Objave v spletniku' type='Blog' />
</b:section>
  </div>

  <div id='sidebar-wrapper'>
    <b:section class='sidebar' id='sidebar' preferred='yes'>
```

[Povrni predloge pripomočkov na privzeto](#)

♦ [Preklopite na klasično uredilo](#)

**Important note:** before changing HTML code in template, it's recommendable to make a backup copy of existing one. Use the information on the top of page to do that. Editing HTML code requires working knowledge of HTML and should not be attempted without it.

To edit the HTML code, copy the script from the field into HTML editing program such as Open Office Writer or Dreamweaver and make desired changes. It's possible to edit almost every element on the page, add pictures and text or even an advertisement block.

It's always possible to revert to last saved version in case something goes wrong.

## **File exchange**

A web section for file exchange was considered an important part of the collaborative environment. It's custom made, but available as an open source code at this URL:

<http://www.odiseja.net/fileexchange>

For users to upload and download files, they had to be authenticated into the web application. Open version of the application was modified so that the password protection was removed, and users are free to upload and download files as they wish.

### ***Uploading a file***

To upload a file, click the »Upload« link and choose a local file in the dialog box. The file transfer will start after confirming the upload. During the file upload in the background the user can switch to some other task.

### ***Downloading a file***

To download a desired file, click its name on the list. The download will start immediately. Choose target location, click OK and the file will download.-

## **Possible improvements**

During the development and lifecycle of present solutions, a great number of innovations took place in web computing. There is a host of new and better solutions for almost every component of present system with notable exception of Upstage server, which in the meantime progressed to Version 2 with many improvements, including live audio and video, etc.

### ***Upstage***

Upstage should be upgraded to version 2, and all components added to extend the freedom of expression through computer medium to spoken word and live video.

### ***Blog and file exchange applications***

Several new and reliable web services offer a greater level of integration than present solutions. A group of artists could quickly build an online community centered on a group in one of existing social networks, such as Facebook Orkut or MySpace.

All of these services allow:

creating accounts for every user,

- posting text, picture, video and audio material to a multiuser blog – this enables the group to post a wider range of materials,
- creating closed groups with access only to approved users – this functionality is usable for limiting access to only members of the group.
- upgrading an user to a group administrator – inevitable functionality for the group owner or administrator to enable user control; approving users to join

gropus, view posted material, access Upstage and other restricter sections of web community, etc.