



What is a Spin/Remix?

Users create Fedora installations for specific reasons such as security tools or scientific applications. The Fedora community makes tailored distributions available, through officially endorsed flavors (spins), or through unofficial configurations that may or may not use Fedora software (remixes).

```
#!/bin/bash
# This will remove duplicate omni.jar archives created from previous builds
rm -rf /tmp/firefox-omni

# Unzip omni.jar
mkdir -p /tmp/firefox-omni
pushd /tmp/firefox-omni
unzip /usr/lib64/firefox/omni.jar

# Create the custom browserconfig.properties file
cat > /tmp/firefox-omni/chrome/en-US/locale/branding/browserconfig.properties <<EOF
browser.startup.homepage=http://foss.rpit.edu/ritfedora-spin/spinwelcome.html
EOF

# Create the custom bookmarks.html file
cat > /tmp/firefox-omni/default/profile/bookmarks.html <<EOF
<DOCTYPE NETSCAPE-BookmarkFile>
<!-- This is an automatically generated file.
     It will be read and overwritten.
     DO NOT EDIT! -->
<META HTTP-EQUIV="Content-Type" CONTENT="text/html; charset=UTF-8">
<TITLE>Bookmarks</TITLE>
<H1>Bookmarks</H1>
```

What is a Kickstart?

Kickstart files are a list of programs and applications to install on a spin/remix. Kickstart files can be tailored in the post script section. This can range from setting the default wallpaper and aesthetics of the install, to customizing the settings of various applications, to even changing the livecd user's home environment.

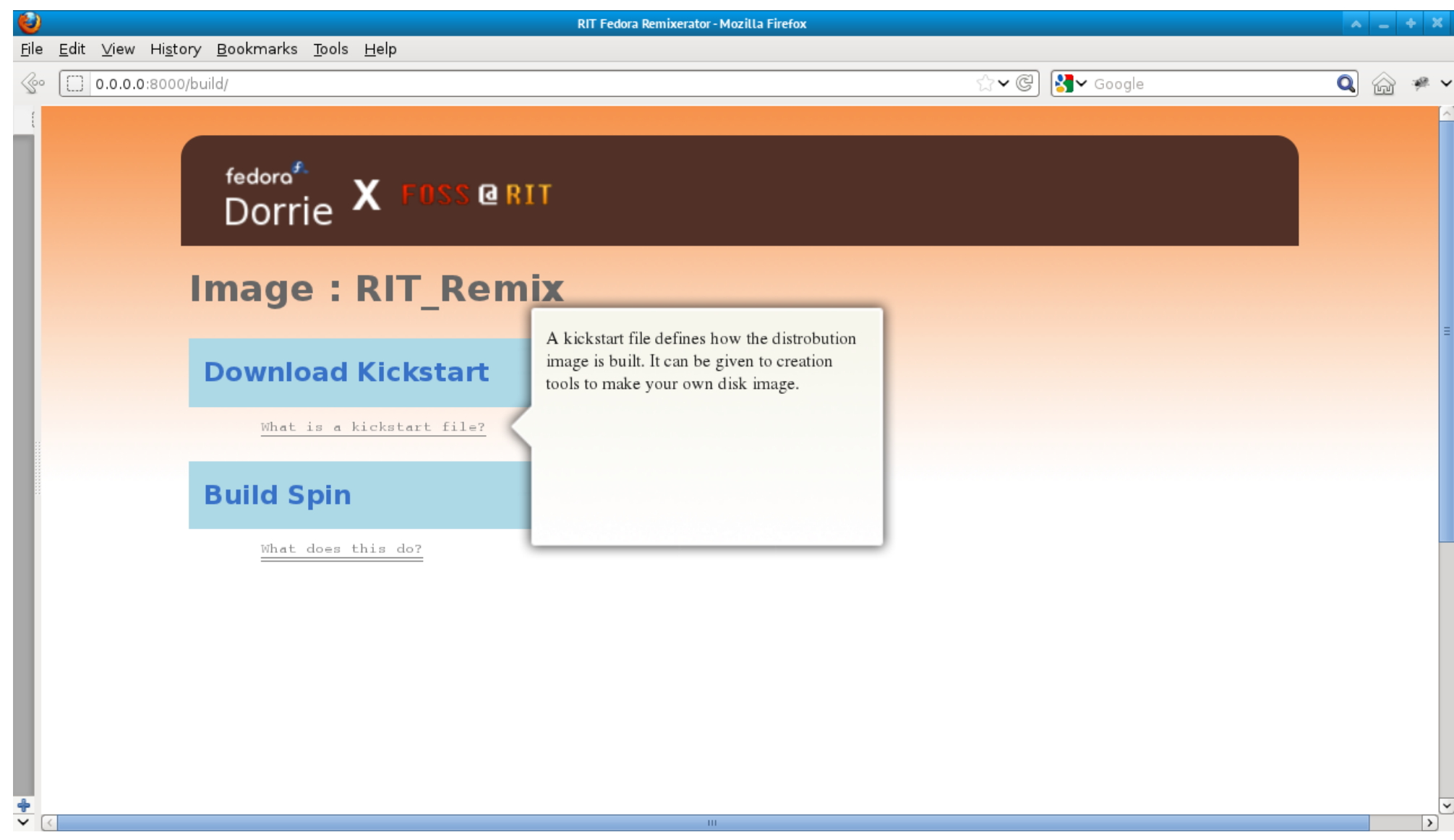
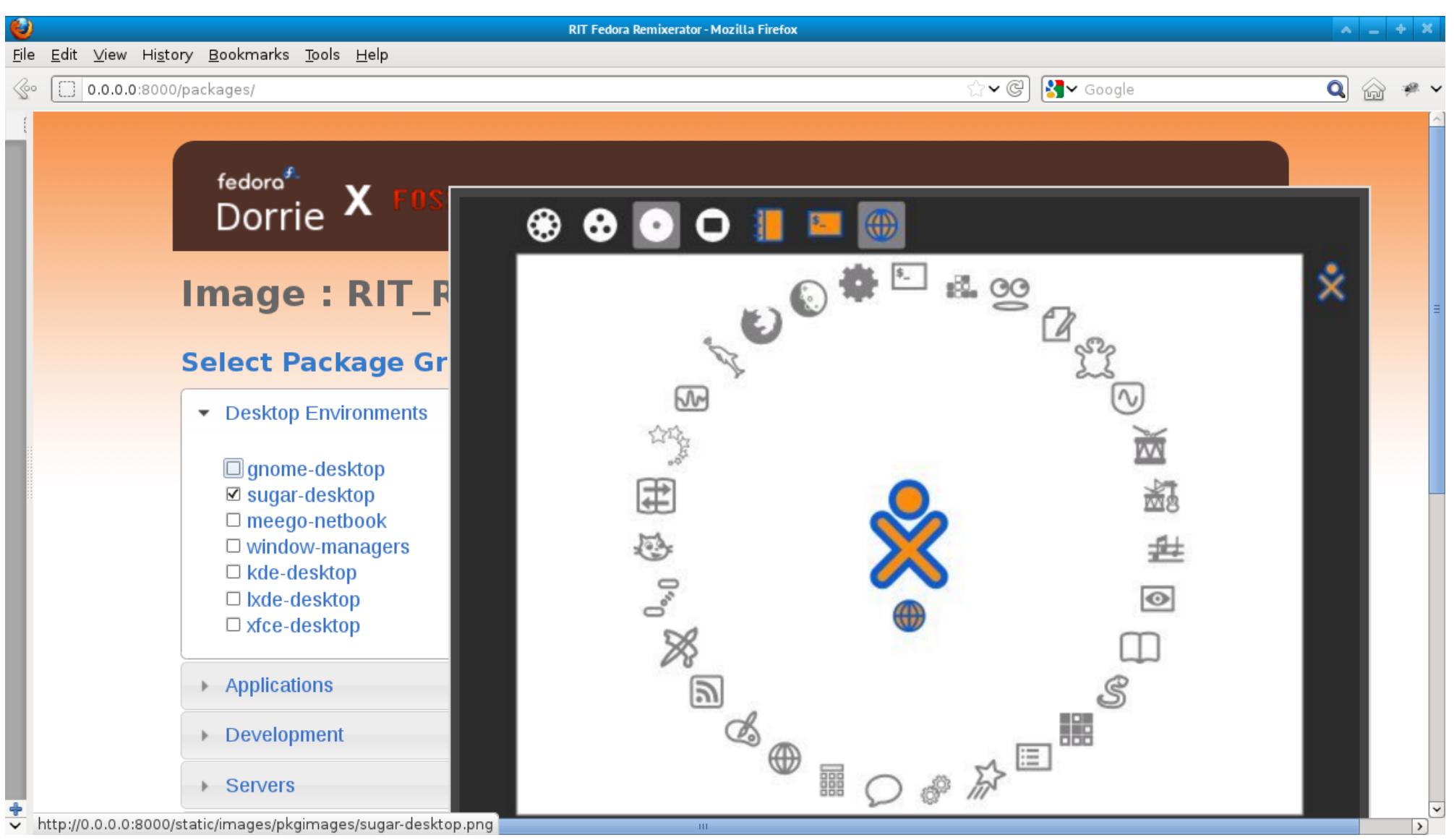
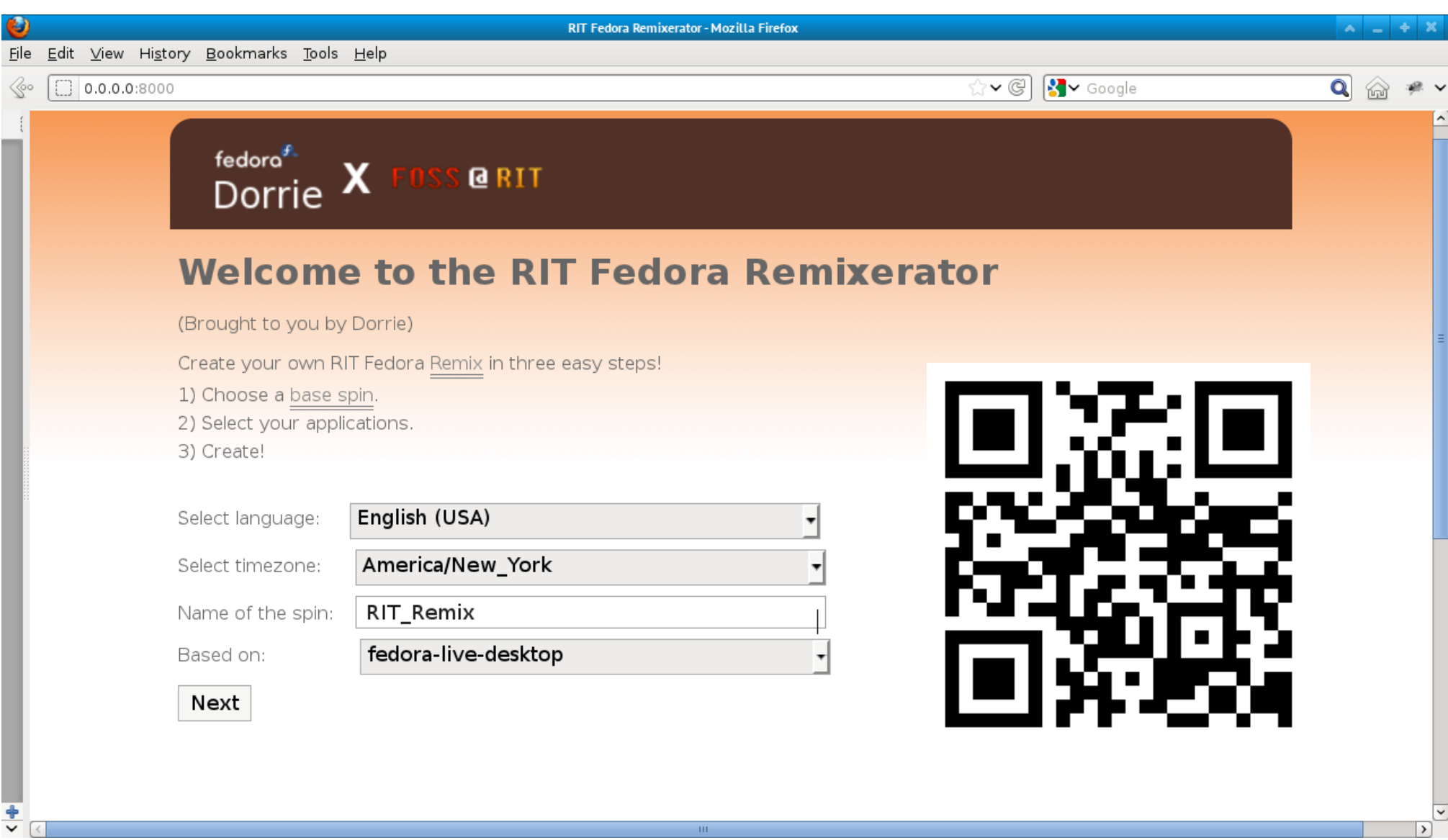


- Links:
- [1]: <http://fedorahosted.org/dorrie>
 - [2]: <https://www.djangoproject.com/>
 - [3]: <http://fedoraproject.org/wiki/Anaconda/Kickstart>
 - [4]: <https://fedorahosted.org/spin-kickstarts/>
 - [5]: <http://fedoraproject.org/wiki/Pykickstart>
 - [6]: <http://www.makotemplates.org/>
 - [7]: <http://git.fedorahosted.org/git/?p=livecd;a=summary>



RIT REMIXERATOR

The RIT Remixerator[0] is an open source project that provides a web-based interface to creating custom Fedora Remixes. This project was a fork of the Dorrie project[1], which leverages Django[2], and several python libraries.



User Supplies Information

1.) User is prompted for general information about their remix, including the name of the distribution, and a base kickstart[3] file. If the RIT Remixerator's server has the spin-kickstarts package[4], the user may select one of the included kickstart files.

Using Django forms, the user may also upload their own kickstart file.

Users are assigned a unique ID, allowing the Remixerator to support multiple sessions at once.

Remixerator Creates a Web Form

2.) The pykickstart[5] library parses the base kickstart file and creates appropriate objects.

This information is easily iterable, and the corresponding fields are chosen programmatically through the use of Django's Mako Templates[6] extension.

Some options, like those for the desktop environment, have dynamically displayed preview images.

User is provided a Kickstart File

3.) After selecting packages, the RIT Remixerator uses pykickstart to transform the corresponding state object into a new kickstart file, ready to be served.

User Downloads Kickstart

4a.) The user may download their modified kickstart file, or the file can be supplied to other remix creation tools, such as the livecd-creator tool[7], or distributed to special interest groups[8].

User Creates a Bootable Live CD

4b.) Alternatively, the user can turn the kickstart file into a livecd.

The RIT Remixerator launches a new process, passing the kickstart file to the livecd-creator tool.

The user is notified upon completion, and may download their fresh disk image.

