

## **Getting Started**

## propellerhead

Getting Started manual by Anders Nordmark

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## Welcome!

Thank you for purchasing Reason!

Version 4.0 is the fourth major Reason update, featuring new devices and a completely redesigned sequencer along with many other overall improvements.

A strong driving force for us at "PropellerHeadQuarters" is the communication with all the people around the world that use our applications for expressing themselves. One meeting point for all of us is the song archives and message boards on our web pages. This is a unique forum where professionals and beginners meet on equal terms to exchange music and ideas. Even more importantly, it's a forum open to you! Share your experiences by communicating with us and others and by uploading your songs for others to hear. We think you will appreciate the feedback from other Reason users all over the world, just as much as we appreciate the feedback we get from you.

So, see you on the Propellerhead web! Yours truly, The Propellerhead Software Team www.propellerheads.se

## About the manuals

This is the Getting Started manual, a guided tour of the basic features and procedures in Reason. The manual also includes six short tutorials to help you get going with the program.

Detailed features and operations in Reason are described in the Operation Manual, a file in Adobe Acrobat (".pdf") format. This and other pdf documents are installed with the program - you find them in the Documentation folder inside your Reason application folder. The Operation Manual also contains reference descriptions of all Reason devices and commands.

! To read the Operation Manual you will need the Adobe Acrobat Reader application. Since this has become something of a household utility application, chances are you already have it installed on your computer. If not, run the Acrobat Reader installer included on the Reason program disc.

### About Mac and Windows

Reason runs under Mac OS X and Windows (for operating system details, see below). All Reason packages contain program versions for both platforms. Everything said in the manuals applies to both platforms, unless explicitly stated.

If you are running Mac OS X, please note that there's an additional menu called the Reason menu, which is not present under Windows. This contains the Preferences menu item (otherwise found on the Edit menu).



## What is in the Reason package?

When you purchase Reason, the package contains the following items:

#### → The Reason 4 DVD.

This disc contains the main Reason program installer and the Reason Factory Sound Banks, two large files containing samples, patches and loops for use with Reason. These are copied to your hard disk the first time you launch Reason (see page 11 for more information). In addition, the DVD contains documentation in Adobe Acrobat format, and an installer for Adobe Acrobat Reader.

→ The printed documentation.

#### The product authorization card. This contains the license number required for the installation. Keep this card in a safe place, in case you need to re-install Reason!

## Requirements

Below you will find the minimum requirements for running Reason:

! Note that these are the minimum requirements! You will benefit from a fast computer with a lot of RAM, since this will allow you to use more devices at the same time.

#### Mac OS X

- G4 (1 GHz or better) or Intel Mac.
- 512 MB RAM (1GB recommended).
- Monitor with 1024x768 resolution or larger.
- DVD drive.
- Mac OS X 10.4 or later.
- 2 GB free hard disk space.
- · A MIDI interface and a MIDI keyboard recommended.

#### Windows

- Intel Pentium 4/AMD Athlon or better.
- 512 MB RAM (1GB recommended).
- DVD drive.
- Windows XP SP2 or Vista.
- 2 GB free hard disk space.
- Monitor with 1024x768 resolution or larger.
- A 16 bit Windows compatible audio card, preferably with an ASIO or DirectX driver.
- A MIDI interface and a MIDI keyboard recommended.



## **About the Audio Hardware**

The audio hardware is the computer equipment that converts the digital signals from Reason to analog audio signals (for connection to an amplifier, headphones, or similar). This equipment could be a standard stereo sound card, a USB audio interface, the built-in audio hardware on a Macintosh or some more advanced audio card with several inputs and outputs, digital connectors, etc. Regardless of which, you need to make sure the hardware and its drivers are properly installed:

## Mac OS X

#### If you are using the built-in audio hardware of the Macintosh

In this case you don't need to make any extra settings. Just connect the audio output to your listening equipment (speakers, mixer, headphones or similar) and make sure your Mac plays audio properly.

#### If you are using other audio hardware

You may want to use other audio hardware with Reason (e.g. an audio interface with multiple outputs, digital connections, etc.). For this to be possible, the audio hardware must be compatible with Mac OS X, i.e. there must be a Mac OS X driver available for the card.

- 1. Install the audio hardware and its drivers as described in its documentation.
- 2. Connect the stereo outputs of your audio hardware to your listening equipment (speakers, mixer, headphones or similar).

For info about how to use multiple outputs (i.e. more than a stereo output), see the Operation Manual pdf. For now, we stick to standard stereo connections.

3. If possible, test that audio plays back OK with the audio hardware. With some audio hardware, a test application is supplied for this purpose.



### Windows

→ If possible, you should use ASIO compatible audio hardware (i.e. audio hardware for which there is an ASIO driver).

ASIO drivers generally provide better performance and lower latency (see page 17).

→ If there is no ASIO driver available, you should make sure your audio card supports DirectX.

DirectX is a Microsoft protocol for handling audio and other multimedia aspects.

→ As a last resort, you could use audio cards that don't support ASIO or DirectX, provided that they are Windows compatible.

In this case, Reason will communicate with the audio hardware via MME (Windows Multi Media Extensions). However, most often this results in large latency values (see page 17), making real-time playback of instrument devices difficult or even impossible.

Regardless of which type of audio hardware or drivers you are using, you should follow these basic steps:

- 1. Make sure you have the latest drivers for the audio hardware! Please check the manufacturer's web site for the latest versions.
- 2. Install the audio hardware and its drivers as described in its documentation.
- 3. Connect the stereo outputs of your audio hardware to your listening equipment (speakers, mixer, headphones or similar).

For information about how to use multiple outputs (i.e. more than a stereo output), see the Operation Manual pdf. For now, we stick to standard stereo connections.

4. If possible, test that audio plays back properly with the audio hardware. In the case of audio hardware with ASIO drivers, you will need some test application for this (often included with the audio hardware). If you are using DirectX or MME drivers, you can use Windows' Media Player application for this.

## About MIDI Interfaces

While it is possible to use Reason without an external MIDI controller (by playing patterns and loops only, or drawing notes and automation in the sequencer), this would not allow you to use the program to its full potential. From now on we assume that you are using a MIDI interface and some kind of external MIDI controller (typically a MIDI keyboard with a built-in USB interface).

- → When installing the MIDI interface and its drivers, follow the instructions in its documentation carefully.
- While a MIDI interface with a single input is sufficient, you will benefit from having two or more individual inputs.

This is especially true if you want to manipulate Reason parameters with additional MIDI control surface devices or use the program in conjunction with an external, stand-alone sequencer, groove machine or similar.

- For some MIDI interfaces connected via USB, no driver installation is required. Just plug in the interface and you're ready to go!
- For other, more advanced MIDI interfaces (or at least to take advantage of more advanced features, like multiple inputs) you will need to install a driver. Please consult the documentation that came with the interface for details.



### **MIDI Connections**

Simply connect the USB cable from your keyboard to your computer. Although many USB MIDI keyboards are "plug-and-play", some may require a driver to be installed. Consult the documentation that came with your MIDI keyboard or visit the manufacturer's website. Drivers are usually downloadable.

Or

→ Connect a MIDI cable from the MIDI Out on your MIDI keyboard (or other MIDI controller) to a MIDI In on your MIDI interface.

This is sufficient to be able to play and record notes and controllers in Reason from the MIDI keyboard.

→ If you are not using a USB keyboard, you may also connect the MIDI Out from the MIDI interface to the MIDI In on your MIDI keyboard.

This is not strictly necessary to use Reason, but it will enable two-way communication when you run the Reason Setup Wizard which appears the first time Reason is launched (see page 14), or when using Auto-detect Surfaces in the Preferences. Whether auto-detection works or not depends on the keyboard model.

! If you have several MIDI control surfaces or similar that you want to use, we recommend that you connect them to separate MIDI ports (or directly to the computer using USB).

## **Upgrading vs. New Installations**

If you are upgrading from a previous version, please note the following:

→ Our recommendation is that you uninstall the previous version before installing the new one.

Under Windows, please use the Uninstall feature. Under Mac OS, just drag the program files to the Trash. Uninstalling will ensure that there is no confusion between versions and that shortcuts and aliases point to the right files etc.

## Installing the Software

#### Running the Installer

Now it's time to install the actual Reason software:

→ Insert the Reason 4 disc into your DVD drive.

What to do next depends on whether you are installing on a Mac or a Windows computer.

Windows:

#### 1. On the DVD, locate the file called "Install Reason" and double click on it.

Under Windows, the installer may automatically start when you insert the DVD, depending on your system settings.

#### 2. Follow the instructions on screen.

Before executing the installation of the software components, you will be asked to select a language, an install location, and whether you wish to create a program shortcut/alias on your desktop. When the installation is complete, you have the option of launching Reason directly.



INSTALLATION

Mac OS:

On the Mac, there is only a folder called "Reason" - simply drag this to the Applications folder on your hard disk.

#### About the Sound Banks

The first time you launch Reason, you will be asked to insert the Reason 4 disc to copy the Factory Sound Bank and the Orkester Sound Bank. These each consist of one big file, containing a large number of patches, samples and loops, serving as your main supply of sounds (much like the sound ROM in a synthesizer).

These are copied to your hard disk and are required to run the program.

#### Launching the Program

Now, the Reason files have been installed in a folder on your hard disk. Under Windows, all Reason related items have also been added to the Start menu and possibly you will have a Reason shortcut on the Desktop.

1. Check for any ReadMe files in the Reason folder or on the Start menu, and open and read these.

ReadMe files may contain important last minute information that didn't make it into this manual.

- 2. Launch the program by double clicking the Reason icon (or by selecting the Reason item from the Start menu).
- 3. First a Licensing Agreement is shown. Read it through and click "Agree" to proceed.
- 4. You will now be asked to insert the Reason 4 disc (if this is not already loaded). The Factory and Orkester Sound Banks will be automatically copied into the Reason Program folder. During this process, which will take a while, various splash screens are shown, along with a progress meter.
- 5. Fill in the authorization form that appears.

Your license number can be found on the product authorization card included in the package.

At this point a dialog appears, asking you whether you want to register your copy of the program at the Propellerhead web site. Registering gives you immediate access to various benefits such as free, extra sounds for Reason!

- ! You must have a working Internet connection to be able to register on-line.
- → If you click the Register Now button, your Internet browser will launch and take you to the registration page on the Propellerhead web site.

Follow the instructions on the web page. After finishing the registration, click the Continue button in the installation dialog.

→ If you don't want to register at this point, click the Later button.

You can register at any time by selecting Product Registration from the Contact menu (Mac) or Help menu (Windows) in Reason (or by going to www.propellerhead.se/register).

This completes the installation and the program is opened, but a new dialog appears named "Reason Setup Wizard" which will guide you through the basic settings needed to use Reason.

This is described in the "Setting Up" chapter so just leave things as they are for now and go to the next chapter...





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→ Setting Up



## About this Chapter

This chapter describes the settings you need to make before you can start using Reason. These are necessary in order to get any sounds from the program and to be able to play and control Reason via MIDI.

## First run - Reason Setup Wizard

If you followed the instructions correctly in the last chapter, Reason should be running, and the first dialog in the "Reason Setup Wizard" guide should be open.

This only appears the very first time the program is run.

Reason Setup Wizard				
Welcome To Reason!				
We recommend that you click Next to specify basic Audio and Master Keyboard settings. However, if you prefer, you can click Cancel and later make these settings in the Preferences dialog.				
Open Preferences Dialog) Cancel Next	,			

! Note that any settings made in the Setup Wizard can always be changed later in the Preferences!

Clicking Next will take you through a series of dialogs, where the following happens:

→ The Setup Wizard will first try to find a compatible audio driver.

It will automatically select the first compatible driver it finds. If this is the driver you wish to use, fine. If it isn't, select your preferred driver from the Audio Card Driver pop-up. If you don't know which driver to use, see page 16.

- → Next, Reason will try to auto-detect a master keyboard. If one is found and you want to use this, click "Use" and proceed.
- If Reason can't find the keyboard you have connected, or if you clicked "Don't Use", you will be asked to specify a master keyboard manually. This is done by first selecting a Manufacturer, and then a model. If your model keyboard isn't on this list select "Other" - see below.
- ! For Reason to auto-detect a device you need two-way MIDI communication! Non-USB keyboard devices without a MIDI input can of course still be added manually.
- ! Note that your keyboard model is not necessarily one that Reason "knows". This is especially true for older models. You can still use such a MIDI keyboard, by selecting "Other" from the Manufacturer pop-up.



- → You will also have to specify a MIDI port to use. This can be done manually.
- Note that if you have additional remote control surface devices in your setup, these will have to be added in the Preferences see page 15.

The Setup Wizard will only establish a connected Master Keyboard device.

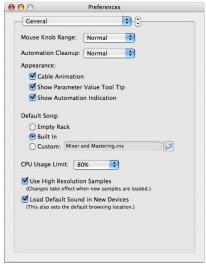
If all went well, you should now have established audio and MIDI communication - the basics needed to play back audio and to direct MIDI to Reason! Reason will launch and bring up the default song.

However, if for any reason the Setup Wizard failed to establish the necessary settings, or if you wish to add other devices etc., you have to make settings in the Preferences.

Read on...

## About the Preferences

The basic settings for audio and MIDI are done in the Preferences dialog. This is opened from the Edit menu (or, if you are running Mac OS X, from the Reason menu).



The Preferences dialog.

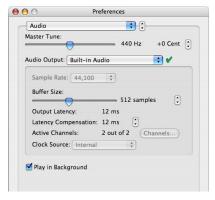
J Described herein are only the most important settings in the Preferences. For information about other Preferences settings, see the Operation Manual pdf.



## **Setting up the Audio Hardware**

In case this wasn't done in the Setup Wizard, you need to establish a connection between Reason and the audio hardware. This is done by selecting a driver - a software component that acts like a link between the program and the audio hardware. Proceed as follows:

1. In the Preferences dialog, use the pop-up menu at the top to select the Audio page.



 Pull down the Audio Card Driver pop-up menu and select one of the options. Which option to select depends on the platform and the audio hardware. If an option is not applicable to your setup it will be greyed out in the dialog.

#### Mac OS X

→ Select the option that corresponds to the hardware you want to use (the built-in audio connectors or some additional audio hardware that you have installed).

#### Windows

→ If you are using audio hardware for which there is a specific ASIO driver, you should select this.

With an ASIO driver written specifically for the audio hardware, Reason can communicate more or less directly with the audio hardware. The benefits are lower latency (see below) and possibly better support for additional hardware features such as multiple outputs.

→ If there is no specific ASIO driver, you should select the Direct Sound driver for the audio hardware.

This makes Reason communicate with the hardware via Direct Sound (a part of the Microsoft DirectX package). You need to have DirectX installed on your computer, and there must be a Direct Sound driver for the audio hardware.

→ If the audio hardware doesn't support Direct Sound (i.e. there is no Direct Sound driver available for the audio hardware), select the MME driver.

This makes use of Windows Multimedia Extensions, the part of Windows that handles audio, MIDI, etc. Using MME often results in larger latency values (see below).



### About Latency and other Audio Settings

In the audio page, you will find a number of additional settings for audio. The most important ones are Buffer Size and the corresponding readout for Output Latency.

Sample Rate: 44,100	Å	
Buffer Size:	<b>512</b>	۲
Output Latency:	12 ms	J
Latency Compensation:	12 ms 🗘	

Latency is the delay between when audio is "sent" from the program and when you actually hear it. The latency in an audio system depends on the audio hardware, its drivers and their settings.

If the latency is large, you will notice that the sound is delayed when you play a device from a MIDI keyboard. You may also notice that reactions are delayed when adjusting controls on the device panels (for example, if you lower the volume of a device, you will not hear this immediately but after the latency time).

If you experience high latency values, you will need to make adjustments to your configuration.

- If available, use the Buffer Size slider to lower the latency.
- If this is greyed out, you may be able to lower the buffer size in the control panel for the audio hardware - click the Control Panel button to open this.

For more information, please consult the Operation Manual.



## Setting up MIDI

In Reason, MIDI keyboards or remote control devices are called control surfaces. MIDI input from control surfaces is handled by a system called Remote. Here are some of the main features:

- → You can use any number of control surfaces at the same time.
- → The program supports a large number of control surfaces out of the box knobs, faders and buttons on the surfaces are automatically mapped to the most useful parameters on the Reason devices.

You don't have to change the settings on the control surface to control different devices in Reason if you change MIDI focus from a Subtractor track to a Malström track, the control surface will automatically adapt.

You just set up your control surface once and for all for use with Reason - the program handles the rest!

→ For control surfaces that are not natively supported at this stage, you can use generic drivers.

With the generic drivers, you can use templates or settings compatible with Reason 2.5, if available for the control surface.

Note however, that Remote drivers for additional control surfaces will be added continuously - check our web page for more info.

→ By default, all control surfaces follow the sequencer Master Keyboard Input.

This means that you set MIDI input to a track in the sequencer to route the control surface(s) to the track's device in the rack.

→ You can lock a control surface to a specific device in the rack.

For example, you could have a master keyboard that follows MIDI input, while another control surface is locked to the main mixer in the rack. This way you can control levels and pans at all times. This is described in the Operation Manual.

→ You can use remote overrides to map a specific control on a surface to a specific Reason parameter or function.

For example, you could override-map a knob or fader on your control surface to the mixer's master level fader. Or you could map buttons on your control surface to control Reason's transport (play, stop, record, etc.) at all times, regardless of which track has Master Keyboard Input in the sequencer. This is described in the Operation Manual.

#### → Remote also supports some control surfaces with MIDI feedback.

If you have such a control surface and it is supported by Reason 4.0, you can take full advantage of motorized faders, meters, displays, etc.

Among the Reason documentation you will find a document called "Control Surface Details".

This contains useful information about the supported control surfaces.

In case you specified a master keyboard in the Setup Wizard, and you don't have any other control surfaces, you don't have to do anything else. But if you want to add additional control surfaces or edit your settings, this is done in the Preferences.



### Adding a control surface

- 1. Open the Preferences dialog and select the Keyboards and Control Surfaces page.
- 2. If your control surface is connected via USB (or if you have made a two-way MIDI connection), try clicking the Auto-detect Surfaces button.

Reason scans all MIDI ports and tries to identify the connected control surfaces. Note that not all control surfaces support auto-detection.

including will auto	page to add and set up Control Surfaces, g MIDI keyboards. One of your MIDI keyboards matically be made the Master Keyboard - this is oard you use for playing devices in Reason.
Attached	Surfaces: Auto-detect Surfaces
n	* <other> MIDI Control Keyboard" Model: <other> MIDI Control Keyboard This is the master keyboard.</other></other>
Add	Edit Delete
	Edit Delete
Use N	
Use No Master K Sta	o Master Keyboard

All found surfaces are listed in the Attached Surfaces list.

- **3.** To add a control surface manually, click the Add button. This brings up a new dialog.
- 4. Select the manufacturer of your control surface from the Manufacturer pop-up menu. If you can't find it on the menu, see below.
- 5. Select the model of your control surface from the Model pop-up menu. If you can't find it on the menu, see below.



 An image of the selected control surface model is shown, often along with some information text - read this carefully.

For some control surfaces, you need to select a specific preset to use the surface with Reason - this is noted here.

Manufacturer:	Edirol
Model:	PCR-M series
	This Remote driver can be used with Edirol PCR-M30, PCR-M50 and PCR-M80. When you use the PCR, you need to make sure that memory set 0 is selected (this is the memory set selected by default when you turn the PCR on).
	Name: Edirol PCR-M series
MIDI Input 1:	Not selected Find
MIDI Input 2:	Not selected Find
MIDI Output (	optional): Not selected
	Cancel OK

## 7. Use the MIDI Input pop-up to select the input port to which you have connected the surface.

If in doubt, you can click the Find button and then tweak a control or play a key on the control surface to have Reason find the correct input port for you.

- → Some control surfaces may have more than one MIDI Input pop-up menu. You need to select ports on all MIDI Input pop-up menus.
- → Some control surfaces will have a MIDI Output pop-up menu.

In some cases this labeled "Optional" - then you don't have to make a selection. In other cases, a MIDI Output is required. This is the case if the control surface uses MIDI feedback - motor fader, displays, etc.

- 8. If you like, you can rename your control surface in the Name field.
- 9. Click OK to add the surface.
- Depending on the surface model, alerts may appear, reminding you to select a specific preset etc.

In some cases, Reason can restore a preset in the control surface to factory settings for you - you are then informed of this.

Finally you return to the Keyboards and Control Surfaces Preferences page, where your added surface is now listed.



#### If your control surface model isn't listed

If you can't find your control surface listed on the Manufacturer or Model pop-up menus when you try to add it, this means that there's no native support for that model. However, the program supports generic keyboards and controllers. Here's what to do:

→ Select "Other" on the Manufacturer pop-up menu and then select one of the three options on the Model pop-up menu.

or, if the Manufacturer is listed but not your specific model:

#### → Select one of the three "Other" options on the Model pop-up menu:

In both cases, the options are:

- MIDI Keyboard (No Controls) Select this is you have a MIDI keyboard without programmable knobs, buttons or faders. This is used for playing only (including performance controllers such as pitch bend, mod wheel, etc.) - you cannot adjust Reason device parameters with this type of control surface.
- MIDI Control Surface

Select this if you have a MIDI controller with programmable knobs, buttons or faders (but without keyboard).

You need to set up your control surface so that the controllers send the correct MIDI CC messages, depending on which Reason device you want to control - check out the MIDI Implementation Chart in the Reason documentation. If your control surface has templates or presets for different Reason devices, these can be used.

 MIDI Control Keyboard Select this is you have a MIDI keyboard with programmable knobs, buttons or faders. Again, you need to set your controllers to send the right MIDI CCs.

After selecting a model, proceed with selecting MIDI input as described above.

#### About the master keyboard

One of the control surfaces can be the master keyboard. This is like any other control surface, but it must have a keyboard and it cannot be locked to a specific Reason device (in other words, it always follows the MIDI input to the sequencer). This is the surface you use to play the instrument devices in Reason.

- The first surface with a keyboard that is added (or found by auto-detect) is automatically selected to be the master keyboard. This is shown in the Attached Surfaces list on the Preferences page.
- If you want to use another surface as master keyboard, select it in the list and click the "Make Master Keyboard" button. You can only have one master keyboard.
- If you don't want to use any master keyboard at all, select the current master keyboard surface and click the same button (which is now labeled "Use No Master Keyboard").

#### Master Keyboard Input

This allows you to set a preference for how Master Keyboard Input mode is selected:

→ Standard mode

This always sets Master Keyboard Input to the selected track.

→ Separated mode

This will allow you to independently select tracks while Master Keyboard Input is unchanged. If this is selected, Master Keyboard Input is set by clicking the device icon in the track list. Selecting another track (by clicking on the track name or somewhere in the track list), leaves Master Keyboard Input unchanged.



### Other functions

- To edit a surface, double click it in the list (or select it and click Edit). This lets you change its name and MIDI port settings, if needed.
- → To delete a surface, select it in the list and click Delete.
- You can turn off a surface by deactivating its "Use with Reason" checkbox. This could be useful if the surface is connected to your system but you only want to use it with another program, etc.
- There is also an "Advanced Control" page in the Preferences. This is only used for External Control MIDI buses and for MIDI Clock Sync input. All hands-on MIDI control is set up on the Keyboards and Control Surfaces page.

## Setting the default song

Every time you start Reason, a simple default song opens. This default song contains a few devices and sequencer data and can be played. Every time you select "New" from the File menu, a default "template" song (without sequencer data) is opened, with a few selected devices. This serves as a suitable starting point for creating your own songs.

You can however decide exactly what you want the default song to look like, in the following way:

- 1. Open the Preferences dialog from the Edit menu (or Reason menu if you are running Mac OS X).
- 2. Use the pop-up menu at the top of the Preferences dialog to select the General page.





#### 3. At the middle of this page, there is a section entitled "Default Song".

You have three choices: "Empty Rack", Built In" and "Custom".

Default Song:	
<ul> <li>Empty Rack</li> <li>Built In</li> </ul>	
💽 Built In	
O Custom:	

Select which one you want to use by clicking the corresponding radio button.

- Empty Rack This is an empty rack. Well, almost empty, since it contains the Reason hardware interface.
- Built In When this is selected, launching Reason will open a basic demo song. Selecting "New" from the File menu will open a template song with a few devices to start with, but no sequencer data. Note that it is not possible to open these songs by regular means - via the browser - since they are not "independent".rns-files, and thus do not reside anywhere in the Reason folder.
- Custom This allows you to select a custom default song. Any Reason song can be used, so if you
  often create songs using the same or similar device setups, you can use a previously created song
  as the default song. This way, all new songs you create will have the same device setup.
- → To select a custom default song, click the Folder icon to the right and browse to the desired Reason song.

The name of the selected song will then be displayed in the text box.

Default Song:		
O Empty Ra	ck	
O Built In		
Custom:	Mixer and Mastering.rns	
		-4





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Guided Tour



## **About this Chapter**

This chapter is a quick introduction to the basics in Reason, laid out as a "guided tour", describing the different areas and devices in the program.

! Before you proceed with the tutorials, you should have connected your equipment and made settings for audio and MIDI as described in the previous chapters.

On the following pages you will find a brief introduction of the program. This helps you get familiar with the different devices and their uses.

## **Guided Tour**

### The Rack

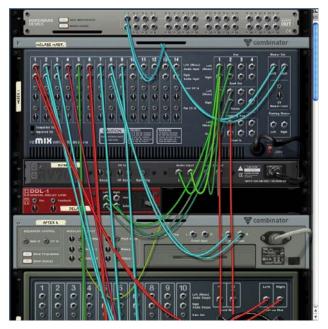


This is the virtual rack, the heart of Reason. At the top of the rack you will always find the Hardware Device, which allows Reason to communicate with the audio hardware. Below this, you can add as many different devices you want (or as many as your computer can handle). Read more about the different devices below.



## The Back

If you press [Tab] or select Toggle Rack Front/Rear on the Options menu, the rack will be "turned" to show you the back.



Here, the back panel of each device in the rack is shown. As you can see, connections between devices are indicated by "virtual patch cables". Connections between instrument devices and mixers use red cables, connections to or from effect devices use green cables, connections to or from Combinator devices use blue cables and CV connections (Control Voltage, used for controlling parameters or triggering sounds) use yellow cables. You can make connections by clicking and dragging from one "socket" to another on the back panels.

To turn the rack over again (to show the front panels), use the same command.

## The Transport Panel



The panel at the bottom of each song document window is called the transport panel. It contains transport controls and settings such as tempo and position displays, DSP load indicator, etc.



### The Sequencer

The sequencer is located in the area below the rack. This is where you record and edit notes, controllers, device parameter automation and pattern changes.

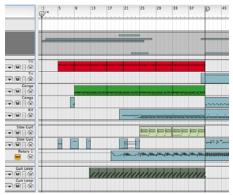
The left part of the sequencer area is the track list, showing the names of the sequencer tracks. To the left in the list, a small image of the device the track belongs to is shown. There can never be more than one track for a specific instance of a device, but a track can have any number of "lanes" containing note and automation data. In the track list you can mute or solo whole tracks, mute individual lanes, add or remove lanes etc.

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		M S 👼	Mixer 1
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The track list.

The right part of the sequencer area has two main modes, the arrange view and the edit view.

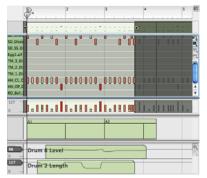
When the arrange view is selected, you will see the tracks lined up vertically, with any recorded note events contained in clips. A ruler at the top of the view shows the meter positions.



The sequencer with the arrange view selected.



You can also view and edit the data events contained in the clips on a track - this is done in the Edit view. In the Edit view, data is always shown for one track at a time. For instrument tracks, clip events on one selected note lane will be shown at a time (you can have multiple note lanes on an instrument track). A note lane will also contain several edit lanes, showing the recorded data in detail. There are specific edit lanes for editing notes, velocity and performance data. You will also be able to view and edit any recorded parameter automation data for the track.



The Edit view, with separate drum, velocity, pattern and two controller edit lanes visible.

## The Tool window



The Tool window provides a quick and convenient way of adding devices, editing/scaling data or adjusting groove parameters. The window can display one of three pages; Devices page (which contains all available devices in Reason), the Tools page or the Groove page. The window "floats" above the application. You can show/hide the Tool window by pressing [F8] or selecting Show/Hide Tool window from the Window menu.



## The Devices

The following devices are available in Reason:

#### **Reason Hardware Interface**



This device handles Reason's communication with your hardware.

The hardware interface contains audio output indicators with level meters. This is where you connect different devices to different outputs on your audio hardware. Reason supports up to 64 separate audio outputs. However, if you are only using audio hardware with standard stereo outputs, the connections to the audio hardware are automatically taken care of when you create a mixer device at the top of the rack.

The lower half of the hardware interface (opened by clicking the "Adv. MIDI Device" button) contains settings for MIDI input, allowing you to select a separate MIDI channel for each device when controlling Reason from an external multi-channel MIDI source. Normally you should not have to use this.

- ! For standard MIDI control of one device at a time in Reason, you don't need to use the hardware interface (since the MIDI signals are routed through the sequencer, as described in the tutorials following this chapter).
- ! The Reason Hardware Interface is "riveted" into the rack, and cannot be removed.



#### Combinator

The Combinator allows you to create new "custom" devices by combining existing devices. Any combination of Reason devices can be added to the Combinator and then saved as a "Combi" patch. Example usage includes creating layered instruments, instrument/effect combinations and effect chains. Devices in a Combi can be mapped to velocity/key zones and the Combinator also features virtual knobs and buttons that can be assigned to any device parameter or function.



#### Mixer 14:2



This is a mixer with fourteen stereo channels, four stereo effect sends and a basic two-band EQ section. By connecting the different devices to different mixer channels (and the stereo output of the mixer to the hardware interface) you can listen to all your devices at the same time, adjust levels and pan, add effects and so on - just like on a physical mixer.

#### Line Mixer 6:2



This is a simple mixer with 6 stereo channels and one stereo effect send/return. It can be used in situations where basic mixing facilities will suffice. Ideal for mixing device outputs within Combinator patches.

#### Subtractor Analog Synthesizer



The Subtractor is a polyphonic synthesizer laid out much like an advanced analog synth. It features two oscillators, two filters and a host of modulation functions, allowing for everything from fat basses to swirling pads and screaming lead sounds.



#### Thor Polysonic Synthesizer

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Thor is an advanced semi-modular polyphonic synthesizer based on various selected vintage synth designs. It features several different oscillator and filter-types which can be loaded into open "slots", allowing for an incredible tonal variety. It also has an extensive modulation section snd an advanced "analogstyle" Step Sequencer.

#### Malström Synthesizer



The Malström is a polyphonic synthesizer featuring two oscillators, two modulators, two filters, a waveshaper and a large number of modulation and routing options. It is based on the concept of Graintable Synthesis and makes it possible to produce amazingly abstract, sharp, distorted, undulating sounds.



#### NN-19 Digital Sampler



The NN-19 allows you to load samples (Wave, AIFF, SoundFonts or REX files) and create multi-sample patches by mapping samples across the keyboard. Once you have loaded one or several samples, you can modify the sound using synth-type parameters such as a filter, envelopes and an LFO.

#### **NN-XT Digital Sampler**



The NN-XT - just like the above mentioned NN-19 - lets you load samples (Wave, AIFF, SoundFonts or REX files) and map these across the keyboard to create multi-sample patches. The sound can then be modified using synth-type parameters; two LFOs, two envelopes and a filter.

In addition, the NN-XT also allows you to create layered sounds, where two or more samples can be played simultaneously. This is done by mapping different samples across the same keyboard range. Another useful feature is the possibility to set up velocity switched key maps.



#### Dr. Rex Loop Player



The Dr.Rex Loop Player plays REX files - audio files created in ReCycle, another Propellerhead Software product. ReCycle is a program designed especially for working with sampled loops. By "slicing" a loop and making separate samples of each beat, ReCycle makes it possible to change the tempo of loops without affecting the pitch and to edit the loop as if it were built up of individual sounds.

After loading a REX file into the Dr. Rex Loop Player, you can play it back in virtually any tempo, make settings for individual slices, extract MIDI playback data and process the loop with the built-in filter, LFO and envelopes. You can also play the individual slices via MIDI or from the sequencer - each slice has a specific note number (C1 for the first slice, C#1 for the next and so on). A number of REX files are included in the Reason Factory Sound Bank.

# 

#### **Redrum Drum Computer**

The Redrum is a sample-based drum machine with ten drum sound channels. You can load samples (Wave, AIFF, SoundFont files and REX slices) individually for each channel, or open patches, which are complete drum kits (a number of which are included in the Reason Factory Sound Bank). Each sound channel has settings for pitch, level, velocity response, etc.

There is a built-in pattern sequencer, allowing you to create classic drum machine patterns, complete with shuffle and flam options. It is also possible to use Redrum as a sound module, playing it live from an external MIDI controller or from the main Reason sequencer. You may for example have the pattern sequencer play a basic drum pattern, and add fills and extras in the main sequencer. As with the Dr.Rex loop player, each drum sound has a specific note number (C1 for drum sound 1, C#1 for drum sound 2 and so on).



#### **MClass Mastering effects**

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MClass Mastering Suite Combi.

The MClass Mastering effects consists of four high quality sound processors, suitable for (but not in any way restricted to) use as mastering effects, i.e. to process the final mixed output from Reason. The MClass effects can selected as a Combi (with all four effects chained), or as individual effects. The Factory Sound Bank contains MClass Combi patches with settings optimized for various mastering and sound enhancement applications. The MClass series of effects consists of the following devices:

MClass Equalizer



This is a two-band fully parametric equalizer, with added high and low shelving bands and a low cut (rumble) filter. In addition there is a curve display giving graphic feedback of your settings.

MClass Stereo Imager



This device splits the signal in low and high frequencies (user definable), allowing you to adjust the stereo width independently for the low and high bands. A typical application is to make the high band wider, and the low band more narrow (mono).

MClass Compressor



This is a single-band compressor with features such as sidechain input, "soft knee" compression, and adaptive release. It also differs from the COMP-01 in that it doesn't have automatic make-up gain, allowing for other applications than simply keeping the level even.

MClass Maximizer



This is a loudness maximizer, allowing you to significantly raise the perceived loudness without risking clipping distortion. It consists of an input gain section, a limiter section (with a "look ahead" function), a soft clip section and a level meter.



#### BV512 Vocoder



The BV512 is an advanced vocoder device with a variable number of filter bands and a unique 1024point FFT vocoding mode (equivalent of 512-band vocoding) for very precise and high quality vocoded speech. By connecting the BV512 to two instrument devices, you can produce anything from vocoded speech, singing or drums to weird special effects.

#### Scream 4 Sound Destruction Unit



This is an extremely versatile sound destruction device, featuring various kinds of distortion, signal warping and transformation effects. There are three main sections: "Damage" (where you select a sound mangling algorithm and make settings), "Cut" (a three band EQ) and "Body" (a resonant body or cabinet simulator, excellent for making the sound come alive).

#### **RV7000 Advanced Reverb**



The RV7000 is a high quality reverb processor with nine different reverb and echo algorithms, ranging from rooms and halls to special effects. The RV7000 also contains an equalizer and a gate section, making it possible to get virtually any kind of reverb character, including gated reverb.

#### **RV-7 Digital Reverb**



This is a reverb effect with ten different reverb algorithms, ranging from hall and room simulations to special effects. You can fine-tune the effect with the knobs on the device panel if you like. The reverb is normally used as a send effect.



#### **DDL Digital Delay Line**



This is a basic digital delay, useful for echoes, slapback, doubling, etc. The delay time can be set in steps based on and synchronized to the current song tempo, or in milliseconds for free-running delays. The maximum delay time is 2.0 seconds.

#### **D-11 Foldback Distortion**

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The D-11 is a simple but highly effective distortion device, that can convert mellow synth sounds to screaming leads and basses, add grit and dirt to drum patterns or loops, etc.

#### ECF-42 Envelope Controlled Filter



This is a synth-style resonant filter with three different filter modes. You can either use it as a "static" filter (and vary the filter frequency on the device panel, or via Control Voltage from another device) or use the built-in envelope to create rhythmic filter effects of various kinds. The envelope can for example be triggered by a drum machine or the Matrix pattern sequencer.

#### CF-101 Chorus/Flanger



The CF-101 does double duty as chorus (for making textures rich and swirly) and flanger (for creating sweeping, metallic effects). You can use it as a send effect or as an insert effect (connected between an instrument device and a mixer).

#### PH-90 Phaser



The PH-90 is a stereo phaser effect. It has six parameters available on the device panel, allowing you to create both subtle sweeping sounds and extreme, swirling special effects.



#### UN-16 Unison



The UN-16 simulates the sound of several detuned voices playing the same notes simultaneously, producing a rich chorus-like effect with the voices spread across the stereo field if you like.

#### **COMP-01 Compressor**



This is a combined compressor and limiter. It will affect the dynamics of the sound, by boosting low levels and attenuating loud sounds. Use it for keeping levels even (from individual devices or the whole mix), for adding punch and power to drums, etc.

#### PEQ2 Two Band Parametric EQ



While the mixer device has basic two-band EQ on each channel, sometimes you may need some more precise control over the tone color. For this purpose, you can use the PEQ2. This device contains two independent parametric equalizers, with controls for frequency, gain and Q value.

#### Spider Audio Merger & Splitter



This is not an effect device, but a utility. With the Spider Audio you can merge up to four audio input signals into one output, as well as split one audio input signal into four outputs. This makes audio signal routing much more flexible and allows for very creative patching.

#### Spider CV Merger & Splitter



Again, this is not an effect device, but a utility. With the Spider CV you can merge up to four CV input signals into one CV output, as well as split CV or Gate inputs into several outputs (one of which can be inverted). One use for the Spider CV is to split Gate and Note CV to control several instrument devices with one Matrix.



#### The Matrix Pattern Sequencer



The Matrix is a stand-alone pattern sequencer, somewhat similar to a vintage analog sequencer. A Matrix pattern can have between 1 and 32 steps, and for each step you can specify which control voltage levels should be sent out from the three separate CV outputs on the back of the device. If you like, you could view this as having three separate pattern sequencers in one.

By connecting the Matrix to e.g. a synth device, you can have the pattern sequencer play the device (for a repeating synth pattern), or control various parameters, for rhythmic effects that you cannot obtain using the synth device alone.

#### **RPG-8 Monophonic Arpeggiator**



An arpeggiator generates rhythmic note patterns (arpeggios) from notes or chords. Similarly to the Matrix, connecting the RPG-8 to e.g. a synth device, means the arpeggiator can play the device (for a repeating arpeggio), or control various parameters. The RPG-8 Arpeggiator has innovative features like musically logical pattern variations and a Pattern editor for even more rhythmic variation.

#### **ReBirth Input Machine**



This device allows you to use Reason in conjunction with Propellerheads' classic ReBirth application. The audio from ReBirth will be "streamed" via the ReWire protocol into Reason. By routing the different outputs on the ReBirth Input Machine to different mixer channels, you can mix the sound of ReBirth with the sound of Reason, add effects to separate ReBirth sounds, etc.





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→ Tutorial 1 - Playing a Song



## About this tutorial

This and the following chapters are written in tutorial form to introduce you to some of the basic operations in the program. So if you are new to Reason and wish to get started quickly this is where you should start!

In this first tutorial we shall go over the following:

- How to open and play back a song
- Basic mixer operations.
- ! This tutorial assumes you have made the necessary setting up for audio. If not, please refer to the "Setting Up" chapter before starting.

## **Playing a Song**

1. If you haven't launched Reason yet, do so.

#### 2. Pull down the File menu and select Open.

The Song browser window opens were you can open Reason song documents. It shows the contents of your hard drive as a standard folder structure much like Windows Explorer or the Finder in Mac OS, but only Reason Song document files can be shown/opened.

#### 3. Navigate to the Reason program folder.

This can be found in the Locations list in the upper right corner of the browser.

4. Select the song "Tutorial Song.rns".

#### 5. Click Open.

The document window for the song is displayed on screen. This consists of a "virtual rack" with devices (this song contains four instrument devices and two effects), a sequencer section and a transport panel.

#### 6. Click the play button on the transport panel (at the bottom of the window).

Playback starts. If everything is properly connected, you should now hear Reason play!

The stop button. The play button.

#### 7. Click the stop button to stop playback when you've heard enough.

Now, try out some real-time mixing:

#### 8. Click the stop button again.

This moves the song position to where you last started playback. In this case, this will be the start of the song, allowing you to play the song from the beginning again.



#### 9. Near the top of the rack is a mixer device - make sure this is visible.

You may need to scroll the view using the vertical scrollbar to the right in the rack (or the scroll wheel on your mouse, if it is equipped with one).

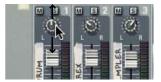


If you look at the mixer, you will see that each mixer channel has a "tape strip" next to the volume fader. If a device is connected to a mixer channel, the tape strip is labeled with the device name. In this song, there are only four instrument devices, so only the four first mixer channels are labeled.



- 10. Click the play button to start playback.
- 11. While the song is playing, click and drag the faders to adjust the level of each instrument device.
- 12. Try changing the pan setting (stereo position) of a channel, by clicking the pan knob above the fader and dragging up or down.

Dragging up will turn the knob clockwise; dragging down will turn it counter-clockwise.



You may also want to add some effects to the music. In this song, there are two effect devices connected: a delay and a chorus/flanger. These are connected as send effects from the mixer, allowing you to specify how much of each mixer channel signal should be sent to each effect.



#### 13. Raise the Aux send level knobs at the top of a mixer channel.

Send 1 is connected to the delay, while send 2 goes to the chorus/flanger.



The Aux sends.

Now, let's try tweaking some controls on an actual instrument device, to change the sound. In this example we will use the Subtractor synthesizer device, but all devices have parameters that can be adjusted on the device panels in the same way.

Unless you have a very large screen, the Subtractor device isn't visible right now. You could use the scrollbar to scroll the rack down, but here's a guicker way:

#### 14. In the sequencer area (above the transport panel), click on the name "Subtractor" in the track list to the left.

The rack is automatically scrolled to bring the Subtractor device into view.

#### 15. Try adjusting some parameters while the song is playing.

You may for example want to tweak the "Filter 1 Freq" slider, to change the brightness of the synth bass sound.



That concludes the first tutorial!





→ Tutorial 2 - Playing devices and selecting sound

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## About this tutorial

In this second tutorial we will go through the following basics:

- · How to add a mixer device and an instrument device.
- · How to direct MIDI to an instrument device so you can play it.
- How to browse for and select a patch for an instrument device.
- How to add an effect.
- ! This tutorial assumes you have made the necessary setting up for MIDI and audio. If not, please refer to the "Setting Up" chapter before starting.

### About devices

Reason devices can be divided into the following main categories:

#### → Instrument devices

These are playable devices that are handled like an instrument - i.e. notes played on your master keyboard will play the instrument device.

→ Effect devices

These are used to process sound.

→ Other devices

These include Mixer devices (for mixing audio signals), Pattern devices (which can be used to program patterns that can trigger notes in instrument devices), and Utility devices (these can split and merge signals in various ways).

# Adding a mixer and an instrument device

This first section of the tutorial describes how to add a mixer device and an instrument device to the rack. We'll start with an empty rack to show you how it is done from "scratch".

1. If you like, close the current song by selecting Close from the File menu.

You can have several song documents open in Reason at the same time, but each song uses some memory and computing power, so it's good practice to close songs you don't need. Note that on the Windows platform, closing a song when there are no other songs open will also cause the program to quit.

- 2. Pull down the File menu and select Open.
- 3. Navigate to the Reason program folder and open the Template Documents folder.
- 4. Select the file "Empty Rack.rns" and click Open.

A song document window appears. This consists of an (almost) empty rack and one track in the sequencer; the Transport track, which is always present. To the right of the rack is the Tool window which can display various pages for editing or adding devices etc.

→ Normally when you create a new song, you would select "New" from the File menu. This command opens the default song, which contains a mixer and a Combinator device loaded with some mastering effects, which is a perfect starting point for adding instrument devices and getting started with your song.

For the purpose of this tutorial however, we will start with an empty rack.



- J You can also customize what song should open when you select "New" from the File menu. This is described on page 22.
- 5. In the Tool window, make sure that the "Devices" tab is selected and that all device categories are ticked (Instruments, Effects and More).

Now the Devices page is shown, displaying all available Reason devices.

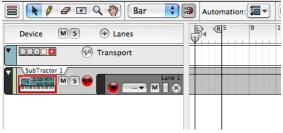


- 6. From the device list select Mixer 14:2 and then click "Create" at the bottom of the list. A mixer device is created in the rack. You can also click and drag devices directly into the rack or double-click a device in the list to add it.
- → Sequencer tracks are not automatically created for new mixer (or effect) devices. Currently there is only one sequencer track named "Transport", which is always present in the sequencer. The Transport track is used for automating tempo and time signature changes, but will not be covered in this tutorial.
- Intereasing the provided start with a mixer device, is that all subsequent instrument devices you add to the rack will then automatically be connected to a mixer channel. In other words, whatever further instrument devices you add, the device output(s) will automatically connect to this mixer. This will be true until you run out of channels in the mixer in this case 14 stereo channels. When this happens you can create more mixer devices and "chain" them so there is never any risk of "running out" of mixer channels.
- Select "Subtractor Analog Synthesizer" from the Devices page and click "Create". A Subtractor synthesizer device is added to the rack and if you look in the sequencer a track has automatically been added for the device.



In the sequencer, the synthesizer track is automatically selected (as you just created the device), and Master Keyboard Input will be routed to this device.

When a device icon to the left in the track list is shown with a red border and a keyboard symbol underneath it this indicates that the track has master keyboard input. This means that notes you play on your master keyboard will be sent to that sequencer track and to its device in the rack. By default, master keyboard input always follows the selected track.



The Subtractor track is selected and has master keyboard input.

#### 8. Press the [Tab] key, to show the back of the rack.

As you can see, the output from the Subtractor has a cable connected to the first channel of the mixer, and the mixer output has cables connected to the Hardware Device where audio signals from Reason are sent to your audio interface. These connections were made automatically when you created the devices

#### 9. Press the [Tab] key again to flip the rack back to show the front panel.

#### 10. Try playing your MIDI keyboard.

What you will hear is the default patch of the Subtractor, which may not be what you want. All new instrument devices will open with a default patch loaded. (This behaviour is however a user selectable preference - see below.)

#### 11. To browse for a suitable patch see "Selecting a patch" below.

#### About the "Load Default Sound for New Devices" Preference

On the Preferences - General page you have the option of selecting whether new devices should open with a default patch or not. In this manual we assume the option "Load Default Sound for New Devices" is activated. This is also the default mode.

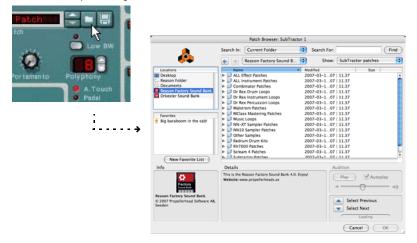


## Selecting a patch

Patches are loaded from the Patch browser. To select a patch, proceed as follows:

#### 1. Click the Browse Patch (folder) button on the Subtractor panel.

This opens the Patch browser dialog. By default for a new Subtractor device, the folder "Subtractor Patches" of the Reason Factory Soundbank will be shown. This folder contains a number of sub-folders with different patch categories.



- Open one of the folders, and select a patch, but do not close the browser window. The patch is loaded in the background - you can now try out the patch while playing your keyboard.
- 3. Try auditioning other patches in the browser. When you have found a patch you like, click OK to close the browser.
- → Once you have selected a patch this way, you can step between the patches in the same folder, by clicking the up and down arrow buttons next to the patch display.

Alternatively, you can click in the patch name display to bring up a context menu with all the patches in the folder. The browser will now remember this location so the next time you open the patch browser for this instance of the instrument



The basic procedure of browsing and selecting patches is the same for all instrument devices.

All devices that use patches have a Patch name display, a Browse Patch (Folder) button for opening the Patch browser, Up/Down arrow buttons and a Save Patch button (floppy disk icon).



## Adding an effect

Next, let's add an effect to the synth device. Effects can be used in two basic ways:

#### → As insert effects.

This means the effect is connected between the instrument device and the mixer. You use an insert effect when an instrument device should have its own separate effect (and, typically, when you want to hear the effect sound only, no "dry" sound).

#### → As send effects.

This way you connect an effect to the Aux send and return busses on a mixer. You use send effects when several instruments should have the same effect (and, typically, when you want to hear a mix between the dry sound and the effect sound). You control the effect amount by using the Aux knobs for mixer channels (as illustrated in the first tutorial). Typical send effects are reverb and delay.

In the first example, we will describe how to connect a Unison effect device as an insert effect for the Subtractor:

- 1. Click somewhere on the panel (not a button or slider) of the Subtractor device in the rack to select it.
- 2. In the Tool window, untick the "Instrument" and "Other" device categories so that only the "Effects" category is ticked.

Only effect devices will now be shown.

- 3. Double-click the "UN-16 Unison" device. The effect is created and appears below the Subtractor in the rack. If you flip the rack around (by using the Tab key), you can see that the output of the Subtractor is now connected to the effect, and that the effect's stereo outputs are routed to a channel in the mixer.
- 4. Flip the rack back to show the front panel.
- 5. If you now play you should hear the Subtractor being processed by the effect. You can turn up the "Detune" knob for a stronger detune effect if you like.
- 6. By using the "Dry/Wet" knob, you can adjust the balance between the clean (Dry) signal and the effect (Wet) signal.



Now we will apply the same effect, but this time as a send effect:

1. Delete the Unison device you just created by selecting it in the rack (click somewhere on the panel to select it) and then pressing [Backspace]

The effect will be deleted and the cable routing will be restored to exactly how it was before creating the effect. You can also delete devices from the context menu which is opened by right-clicking/ [Ctrl]-clicking (Mac OS) on the effect panel.

2. Select the mixer by clicking on the panel.

#### 3. Double-click the "UN-16 Unison" device in the Tool window.

The effect appears below the Mixer in the rack. If you flip the rack around (by using the Tab key), you can see that the Aux 1 Send Out is connected to the effect's input, and the effect stereo output is connected to the Aux 1 Left/Right Return sockets.



#### 4. Flip the rack back to show the front panel.

The Unison is device has a tape strip in the Return section to indicate it is connected to the Aux 1 Send/Return bus.

#### 5. Now turn up the Aux 1 knob for the Subtractor mixer channel and play a few notes.

The Aux 1 knob now controls the level of the Unison effect. When using send effects, you should always leave the Dry/Wet parameter on the effect device to maximum Wet as the Aux knob now controls the balance between clean and effect signal. Also note that any device connected to the mixer can now be processed by the Unison effect - simply turn the Aux knob for the corresponding channel to add the effect.

That concludes the second tutorial! If you want to go on to the next tutorial straight away, you can keep the current song open.









→ Tutorial 3 - Creating a drum pattern

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## **Creating a drum pattern**

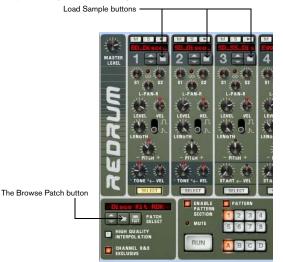
In this tutorial we will describe how to create a drum pattern using the Redrum device. If you have kept the song from the previous tutorial open, you can skip the first step.

#### 1. Select "New" from the File menu.

This will open a new song, which by default is configured with a Combinator effect patch named "Default Mastering Suite", and a mixer device.

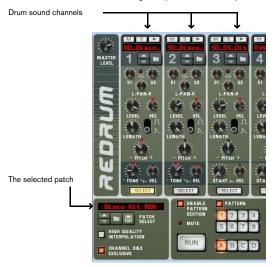
- Select "Redrum Drum Computer" from the Tool window's Device page and click "Create". In the sequencer, a track for the Redrum is created. It is automatically selected and gets master keyboard input.
- 3. Click the folder button in the lower left corner of the Redrum panel.

This opens the patch browser for the drum machine, allowing you to select a Redrum patch (a drum kit). Note that there are folder buttons for each drum sound channel too - these let you add drum samples one by one and create your own drum kits.



4. Select a Redrum patch in the same way as you selected a Subtractor patch in the previous tutorial.

The patches are located in category folders within the folder "Redrum Drum Kits" in the Reason Factory Sound Bank - this main folder is opened by default. When you have selected a patch, you will note that a sample file name is displayed at the top of each drum sound channel in the drum machine. There may also be different parameter settings for the different drum sounds - all these settings are part of a Redrum patch.



5. Try out the drum sounds by clicking the audition buttons at the top of each drum sound channel.



Now, let's start building a pattern. By default, the empty patterns have sixteen steps, with each step corresponding to a sixteenth note (so that the length of a pattern is one 4/4 bar). To make things simple, we'll keep this setting for now.

#### 6. Click the Run button on the Redrum device panel.

The pattern will start playing (as indicated by the running "LED" on the step buttons at the bottom of the device panel). Nothing will be heard, since you haven't added any drum beats yet.

#### 7. Click the Select button for one of the drum sounds.

In Redrum, you add drum beats for one sound at the time.



#### 8. Click on the first step button (marked 1).

The button lights up, indicating a drum beat.



You will now hear the sound of the selected drum on the first beat of each bar.

#### 9. Add more drum beats by clicking other step buttons. Clicking a lit step button will remove the beat for the corresponding step.

J You can add beats of different strength (velocity level) by adjusting the Dynamic switch. Exactly how each sound is affected by different velocity levels depends on the settings. You can also adjust the dynamics "on the fly" by pressing [Shift] or [Option] (Mac) / [Alt] (Windows) when you add beats. [Shift]-click for hard beats, [Option]/[Alt]-click for soft beats.



10. Select another drum sound (by clicking its Select button) and proceed in the same way until you have a drum pattern you want to use.

#### 11. To stop the playback, click the Run button again.

That concludes the third tutorial!

In the following tutorial, we will describe how to add a bass line to the current drum pattern so you can leave the current song open. Alternatively, save it in a location of your choice under a suitable name by selecting "Save as" from the File menu.





Tutorial 4 - Recording a bass line

propellerhead

## About this tutorial

In this tutorial we will go through the following basic procedures:

- · How to browse for a specific type of patch.
- · How to record notes in the sequencer.
- · How to copy a clip in the sequencer.
- → This tutorial assumes that you have followed the previous tutorial(s).

You should have a song open, containing a mixer device and a Redrum device with the drum pattern you programmed in the previous tutorial. If you kept the same song open for all tutorials you also have a Subtractor device.

If you saved the previous tutorial and closed it, select "Open" from the File menu, navigate to the saved song and open it.

## Browsing for a bass sound

Browsing for a patch was covered in the previous tutorials.

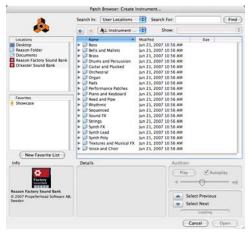
In this instance we will use "cross-browsing" which means you can browse and audition patches for all Instruments, regardless of whether the instrument exists in the current song or not. In addition, we will browse for a specific type of patch; a synth bass sound.

It doesn't matter what track is selected when you use this feature, you will automatically get Master Keyboard Input when cross-browsing.

It works as follows:

1. Select "Create Instrument..." from the Create menu or use the corresponding button at the top of the Tool window - Device page.

The browser will open to show all instrument patches divided into category folders.





#### 2. Double-click the "Bass" folder to open it.

This folder contains 3 further sub-categories; Acoustic Bass, Electric Bass and Synth Bass.

#### 3. Open the "Synth Bass" folder.

As you can see, the browser now not only displays Subtractor (.zyp) patches, but patches for many different devices. For example, patches with the extension ".cmb" are Combinator patches, ".xwv" are Malström patches etc.



4. Move the browser window so that you can see part of the rack.

- 5. Select a Subtractor patch (extension ".zyp") in the browser but do not click OK. A new Subtractor device has been addded to the rack and should be in view. The patch you selected can be auditioned if you play a few notes.
- 6. Keep an eye on the Subtractor device and use the "Select Previous/Next" buttons (or your up/down arrow keys) to step through the patches in the browser.

When you load a patch belonging to another instrument device, the corresponding device will replace the Subtractor device in the rack and allow you to audition the patch! Cross-browsing is a powerful feature that enables you to quickly search for a sound without having to create new devices or to open/close the browser etc.

- 7. When you have found a bass patch, click OK to close the browser. A new corresponding sequencer track is added for the new instrument device.
- → You can still access all the patches that were found when browsing (i.e. the patches in the "All Instruments/Synth Bass" folder).

This is either done by clicking in the Patch Name display and selecting from the pop-up menu or by using the Select Next/Previous arrow buttons beside the Patch Name display. Selecting a patch for another device will change the instrument instantly.



## **Recording notes in the sequencer**

Now let's try adding a bass line to the Redrum pattern by recording notes in the sequencer.

- Select the track for the synth bass device in the sequencer track list. It will automatically get Master Keyboard Input, as indicated by the keyboard symbol below the device icon.
- 2. Start playback on the transport panel.

The Redrum drum pattern will start playing, and will repeat for as long as you are in play mode.

3. Play the bass patch along with the drum pattern and check how it sounds. If needed, you can slow down or speed up the song tempo by using the Tempo up/down arrow but-

tons on the transport panel.



- → Continue playing along and try to come up with a short 4 bar bass line that fits the drum pattern.
- → If you would like a metronome click to help you keep time, press the Click button on the transport.

You can adjust the click level using the knob below the Click button.

When you are ready to record your bass line, proceed as follows:

#### 4. Make sure the Left locator is at the start of the song.

It is by default set to 1.1.1. 0.



The Left locator position is shown in the corresponding display to the right on the transport panel.

#### 5. Set the Right locator to the position "5.1.1. 0".

You can set the Left or Right locator positions in several ways:

By clicking on the header of either the "L" or "R" locator and dragging (it will snap to exact bar positions). You cannot set the Left locator position after the Right locator position and vice versa.



- By clicking on the first digit of the locator position display on the transport panel and moving your mouse up and down.
- By clicking on the first digit and typing in the bar position for the locator position display.
- By clicking on the first digit and using the up/down spin controls beside the position display.



6. Click stop on the transport until the song position is at the start of the song (1.1.1. 0).

The first time you click stop, the song position cursor simply stops at the current position. The second time the cursor moves to where it was last when starting playback (which could be at the start of the song). The third time will move the cursor to the start of the song. You can also click the "L" button beside the locator position display to move the song position cursor there.

#### 7. Click the "Loop On/Off" button on the transport so that the button lights up.

If you now start playback, you can see that the first 4 bars as set with the Left and Right locators will loop seamlessly. When the position reaches the Right locator it jumps back to the start of the song and the Redrum pattern will play continuously.

8. Click Stop until the position is again at the start of the song. See step 6.

#### 9. Activate pre-count by clicking the "Pre" button on the transport.

This will sound the metronome click for 1 bar before the recording starts so you have time to get ready.



During recording, the 4 bar section will loop continuously (just as when playing back). Any notes played will be recorded. This means if you play the complete bass line during the first "lap" of the 4 bar loop, you should not continue to play the bass line on the second lap as these notes will be added to the previously recorded notes. There is never any risk of erasing data when loop recording but everything you play or tweak will be recorded.

#### 10. Click the Record button on the transport panel.

Recording will start after the 1 bar pre-count click.

#### 11. Play your bass line along with the drum pattern.

#### 12. When you're done, click the stop button.

A 4 bar clip containing the notes you played has been added in the sequencer.



#### 13. Click stop again to move the song position to the beginning of the song.

#### 14. Click play to listen to your recording.

Stop playback when you are done.

Perhaps you want to record a new take, either just to improve the performance or simply because you made a mistake. This can be done in several different ways which are described below.



#### About tracks, clips, lanes and recording takes

A Reason device can only have one track in the sequencer. A track can have any number of lanes. As illustrated previously, a recording produces a clip which is placed on a note lane for the corresponding track. This clip will contain the notes (and any performance data like pitch bend or mod wheel) you played when recording.

To record a new take of your bass line, you have three basic alternatives:

#### → Select "Undo Record Track" from the Edit menu.

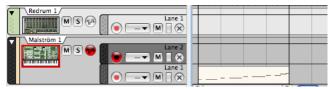
This will simply delete the clip you just recorded, allowing you to record a new take on the same note lane of the track.

- You can undo and re-record until you are satisfied, but note that you will not be able to go back to a
  previous take after deleting its clip and recording a new take, so only use this method when you are
  sure you want to discard the previous recording otherwise create an alternate take as described below.
- If you record over an existing clip on the same lane without erasing it first, the new notes will be overdubbed on top of the old take - i.e. notes from both takes will be contained in the same clip and play back simultaneously, which is probably not what you want.
- → Create a new note lane for the track by clicking the "New Alt" button to the right of the Record button on the transport.

This will mute the clip between the locators on the previous note lane, and create a new record-enabled note lane above it.

This is the method to use if you wish to record and keep a series of takes. You can use this basic
method to record any number of takes and later play them back (one at a time) to decide which take
is best (or edit together the best bits from several takes).





As you can see, the clip on the first note lane is muted, indicated by the clip being grayed out. The new note lane is directly above the first note lane and is record-enabled (indicated by the red Record button).

- To compare between several takes, use the Mute (M) button to unmute the note lane you want to hear and mute all other note lanes for the track.
- → Create a new note lane for the track by clicking the "New Dub" button to the right of the Record button on the transport.

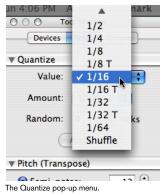
This will create a new record-enabled note lane above it, but will not mute the previous take. In other words, you will hear the previous take as you record.

 This is the method to use if you wish to record additional notes to a previous take. You can also use the "Lanes +" button above the track list to create a new record-enabled note lane.



#### Using Quantize

You can quantize your recorded notes to "tighten up" the performance. The Quantize pop-up menu is located on the Tool window - Tools page).



1. Make sure the clip containing the bass line is selected in the main sequencer window. Simply click on the clip so that you get black arrow "handles" at each end of the clip.

#### 2. Click on the "Tools" tab in the Tools window.

This page features various edit functions that can be applied to selected clips/notes. The top section is Quantize and the default setting is 1/16th note quantize, meaning that notes will be shifted to the closest exact 1/16th note position.

3. Click the "Apply" button in the Quantize section to quantize the recorded notes.

#### 4. Play back your recording to audition the result.

If it sounds good, keep it. If it wasn't what you expected, use the Undo function on the Edit menu to revert back to unquantized notes. You can select another quantize resolution, e.g. 1/8th notes from the Quantize section of the page and perform the operation again to check if this works better.

J Reason also features a powerful "ReGroove Mixer" function where notes can be quantized to fit a certain groove rather than to simply adapt to specific bar/beat increments. The ReGroove Mixer is described in the Operation Manual.



#### Copying and pasting a clip in the sequencer

So now you have a four bar bass line contained in a clip in the sequencer. Although the clip loops infinitely now, having the sequencer loop over just four bars is not something you usually do, as any further tracks you might add will then loop four bars as well, which is rather restrictive. The answer is to copy and paste the clip so that it repeats for a certain pre-determined length.

Proceed as follows:

1. Select the clip by clicking on it in the arrange window.

Selected clips have handles at the start and end of the clip.

#### 2. Select Copy from the Edit menu.

The position cursor will automatically move to the end of the clip. The position cursor determines where the start of the copied clip will end up, and as we want the clip to repeat this is perfect.

3. Select Paste from the Edit menu.

The clip is pasted at the end of the first clip and position cursor will move to the end of the copied clip. You can repeat the last step as many times you like to create a chain of clips.

4. Click the Stop button to rewind the position to the start of the song.



5. Move the Right locator to the end of the last clip.

6. If you now press play on the transport the bass line will sound exactly the same as before in that the clip will repeat along with the Redrum pattern, but you now have a good starting point to continue editing or recording more etc.

For example, you could now edit the notes in one or more clips to create variations. How to edit individual note events for a clip in the sequencer is not covered in this basic tutorial, please refer to the Operation Manual.

That concludes the fourth tutorial. You can either keep things as they are and directly go on to the next tutorial, or you can save the song to enable you to continue later.





8

→ Tutorial 5 - Adding a REX loop

propellerhead

## About this tutorial

#### ! The following tutorial continues from the previous tutorials.

In this tutorial we shall cover the following:

- · How to add a Rex loop.
- · How to adjust parameters for the whole loop as well as for individual "slices".

## Adding a REX loop

### About REX loops

In this tutorial we will add a REX loop to the existing song. REX loops are created in ReCycle, another Propellerhead application, but there are scores of ready made loops in the Factory Soundbank for you to use. REX files are audio files, usually 2 or 4 bars in length, that have been "sliced" in the ReCycle application. The resulting file allows you to change the tempo of your song, and the REX loop will automatically adapt to the tempo.

Any MIDI notes you have recorded (like your bass line) will of course also adapt to any tempo, but non-REX audio loops will not.

### Adding a REX loop

REX loops can used with the NN-XT sampler or the Dr. REX Loop Player. In this tutorial we will use a Dr. REX device. Proceed as follows:

1. Select "Dr. REX Loop Player" from the Tool window Device page and click the "Create" button.

A Dr. Rex loop player is created together with a corresponding sequencer track. A default loop is also loaded.

2. Click on the "Preview" button so that it lights up.

The default loop starts playing. If Preview is activated, you will be able to audition loops in browser at the correct sequencer tempo.



- Click the Browse Loop (folder) button on the Dr. Rex device to open the REX file browser. In the main browser window you should now see three Dr. Rex folders; Drum Loops, Instrument Loops and Percussion Loops. As we already have a drum pattern, let's try adding a percussion loop to the song.
- 4. Open the "Dr. Rex Percussion Loops" folder.

Various percussion instrument folders are listed. The folders also have a tempo listed in bpm. These tempo listings are merely suggested tempo values for the REX files contained in the folder. Any REX loop will sync to whatever song tempo is set on the transport, although some loops will sound more natural if they do not deviate too much from the original tempo.

5. Open a percussion instrument folder of your choice and select one of the loops inside. Audition different loops in the folder by selecting them.



TUTORIAL 5 - ADDING A REX LOOP

#### 6. When you have found a loop, click OK to close the browser.

The selected loop continues to play and the display in the middle of the Dr. Rex panel shows the waveform as well as the individual slices in the loop.

- 7. Click the Preview button again to stop the loop preview.
- 8. To check out the loop together with the other device sequencer data and patterns already recorded, activate both the Preview function and the sequencer Play button.

This does not have to be done in any particular order, they will play back in perfect sync anyway.

#### 9. Click Stop on the transport.

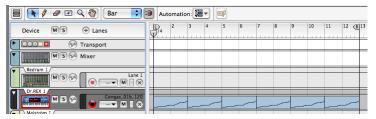
The loop stops. If you click Play on the transport, the loop will not play back. For Dr. Rex to follow the sequencer transport automatically, you first have to create notes to play the loop from the sequencer. This is done as follows:

#### 10. Select the sequencer track connected to the Dr.Rex device.

11. Set the left and right locators to encompass the section you want to fill with REX notes. The loop will repeat to fit the selected range.

#### 12. Click the To Track button on the Dr.Rex panel.

Now the Dr. Rex sequencer track will get clips stretching between the left and right locators. Each clip contains all the slices in the loop played once (usually loops are 1 or 2 bars long). If you start playback, the percussion loop will now play in perfect sync with the bass line and the drum pattern.





### Adjusting Dr. Rex parameters

You can tweak the loop in various ways using the Dr. Rex parameters. Here follows a few examples:

- → While playing back the loop, try adjusting the Filter Frequency parameter. By lowering the frequency the loop is shaped through a low pass filter (by default). Raising the filter resonance (Res) slider will produce a sharper filter sound.
- → By using the Transpose parameter you can transpose the whole loop up or down one octave (in semitone steps).
- → If you adjust the "Slice" knob you can select an individual slice for editing. A selected slice is highlighted in the display. The four knobs to the right of the Slice button (Pitch/ Pan/Level/Decay) can be used to edit a single slice. E.g. by adjusting the Pitch parameter the selected (highlighted) slice will be transposed but not the other slices.



That concludes the fifth tutorial. You can either keep things as they are and directly go on to the next tutorial, or save the song to enable you to continue later.



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→ Tutorial 6 - Adding an arpeggio



## About this tutorial

In this last tutorial we shall cover the following basic operations:

- → How to create arpeggio patterns using the RPG-8.
- → How to automate a parameter see page 72.

The following tutorial continues from the previous tutorials.

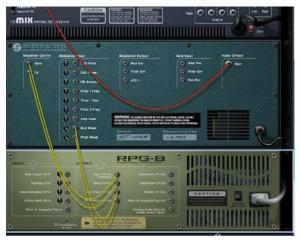
## Adding an arpeggio

The RPG-8 Arpeggiator is a device that generates patterns (arpeggios) from notes. It needs to be connected to an instrument device as it doesn't generate sound on its own. You set it up as follows:

- Create a new Subtractor device from the Device page. A Subtractor is added to the rack with its output auto-connected to the mixer.
- 2. Open the patch browser and double-click on the "MonoSynths" folder to open it.
- 3. Select the patch "Matrix3".

This is simply a patch with short attack/decay times, suitable for arpeggio playing.

4. With the new Subtractor device selected, create a RPG-8 Monophonic Arpeggiator. A sequencer track with MIDI input named "Arp 1" is created for the RPG-8. The RPG-8 Note and Gate CV outputs (on the back panel - use [Tab] to flip the rack) will be auto-routed to the Subtractor's Sequencer Control Gate and CV inputs, so all connections needed are made automatically. The CV/Gate connections are a way to make one device control another. The Gate signal tell a device when a note should be played and the Note CV signal determines the pitch of the note.





#### 5. Flip the rack back and play a few chords.

The notes in the chord you play are now arpeggiated for as long as you hold down the keys. The arpeggio will change directly if you release all notes and play another note or chord. If you add notes while holding down a chord, the arpeggio will continue with the added notes. The arpeggio will play in sync with song tempo by default in new RPG-8 devices.

#### → Try changing the arpeggiator mode using the Mode knob.

The various modes govern how the notes are arpeggiated. For example "Up" means from lowest note to highest note, then back down to lowest note again.



- The Octave buttons set the octave range of the arpeggio.
  E.g. if set to 2 Oct the pattern will play over two octaves and so on.
- → The Rate sets the rate of the arpeggio pattern in the current Rate mode (Sync) the rate will synced to the sequencer tempo in various beat resolutions.

Experiment with these basic parameters if you like.

- 6. Start playback and play suitable chords to accompany the song. As Loop is activated the set bars will repeat for as long you are in Play mode.
- 7. To record the notes you play, press Stop, rewind to the beginning and make sure Precount (the "Pre" button on the transport panel) is activated.

Pre-count was described in Tutorial 4 and should still be on.

Note that you have to enter the first chord *after* recording starts (i.e. when the one bar count-in is finished) - if you hold a chord and then enter record, the notes generating the arpeggio will not be recorded, although you can hear the arpeggio. This is because you are not recording the actual notes generated by the arpeggiator, only the notes you play.

8. Stop recording, rewind to the top of the song and start playback.

The arpeggio will now play back exactly as you heard it when recording. You can still change RPG-8 parameters freely. Changes will be reflected in the arpeggio although the recorded notes that generate the arpeggio will be the same.

The RPG-8 has many more features not covered in this tutorial - please refer to the corresponding chapter in the Operation Manual for a full description of the RPG-8.



## Automating a parameter

Automation is a big part of Reason. Any parameter change can be recorded and edited as automation events. In the following example we shall record some automation for the Subtractor device currently used together with the RPG-8, although the basic principle is the same for all devices.

#### 1. Make sure the Subtractor track is selected and has Master Keyboard input.

#### 2. Locate the "Filter 1 Freq" parameter on the panel.

This parameter governs the filter frequency; i.e. how "open" or "closed" the filter is.



- **3.** Rewind to the start of the song and hit the Record button. Recording starts after the one bar pre-count.
- 4. Click on the Filter Freq slider and hold the mouse button down while slowly moving the mouse up and/or down.

#### 5. Stop recording and click stop until you reach the start of the song.

As you can see, the Filter 1 Freq parameter has a green border to indicate it is automated. Also, an automation lane for the Filter Freq parameter has been added to the Subtractor track in the seguencer. The automation events you recorded are contained in a clip on the automation lane.



#### 6. Start playback.

The filter parameter is now automated and will exactly mirror the slider movements you made during recording.

→ Automation recording can be undone at any time just like other recorded events.

#### → You can also draw automation curves in the sequencer. This is described in the Sequencer chapter of the main Operation Manual.

That concludes the sixth and final tutorial! Please refer to the main Operation Manual for complete descriptions of Reason elements, procedures and devices.



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