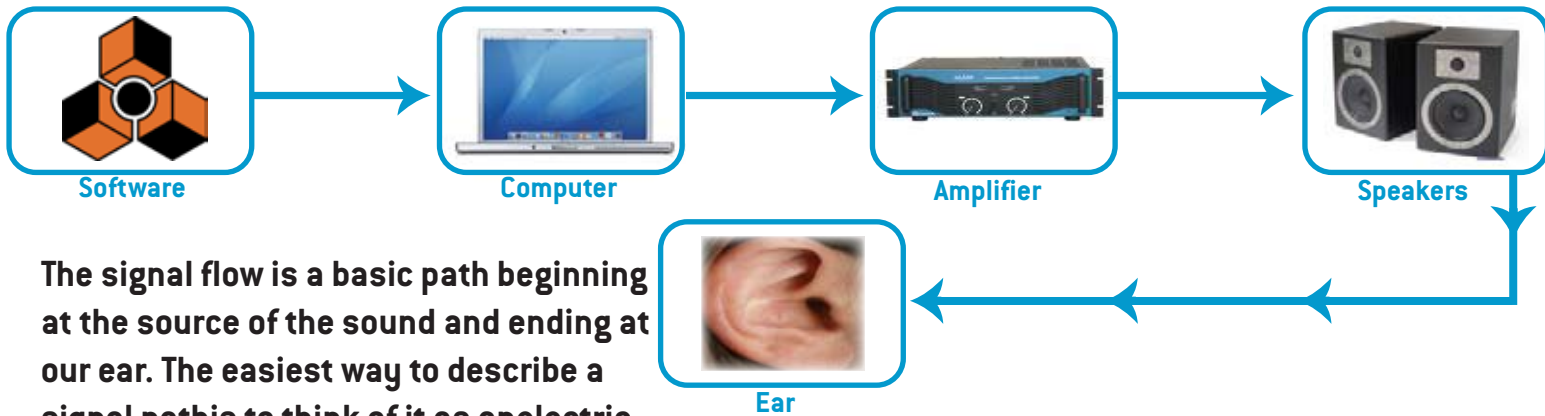


Sound circuit theory helps you understand how a sound, once created, travels through your various studio components and units to finish at your ear. Understanding the sound circuit theory will help you understand the signal flow and aid you in identifying problems when connecting different circuits or different synths or sound modules, as well as re wiring the software synths such as Reason.

SIMPLE SOUND CIRCUIT



The signal flow is a basic path beginning at the source of the sound and ending at our ear. The easiest way to describe a signal path is to think of it as an electric signal travelling through the various studio components, the sound goes out of each component's output and into the next unit's input until it finally reaches your ear.

IDENTIFYING A CIRCUIT PATH WITH REASON

If you are working with a software sequencer such as Reason you can actually use the software to follow and better understand the signal path. Reason is a digital reproduction of an analogue studio and it's hardware components, thus you can use the Reason set up to follow the circuit and path of your signal. For example, in a simple arrangement you may have your Dr rex sound module plugged into an EQ and then your mixer. In this simple circuit your sound is triggered from the Dr rex sound module, the sound goes out of the sound module through its output, then travels into the input of your EQ, then out of the EQ into the input of a specific channel of the mixing desk and finally out of the mixing desk's stereo output into the Reason hardware module that acts as an output from the software interface into the actual computer. The signal then reaches the final output of the Reason software and travels into the computer where it will be sent to the output of the computer. A simple and common output for example could be the headphone output. In this example that would be the end of your signal path, so by then plugging in headphones you extend the signal path to your ear. However if you had the sound output plugged into an amp and speakers they would replace the headphones in the signal path.

