

Tutorial 2: Parameter Automation

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Objectives: To provide the students an overview of parameter automation

Method: Each person will have a computer, a pair of headphones and will work with Reaper software.

Outcomes: Each student will import and audio file from freesound.org and will create volume and panning automation.

Instructor Materials: Reaper, speaker, projector.

Student material: a computer per team, headphones, usb key, Reaper software.

Lesson Plan

Topic	Activity	Material	Time
Review from last week	<i>Exercise:</i> Create new file with the following settings: 44100 Hz and 16 bits. Import an audio file. Create 3 extra audio tracks. Copy and paste the audio file into a new track Copy and paste the 1st half of the sound file into the 2nd track created Copy and paste the 2nd half of the sound file into the 2nd track created Create a fade out for track #3 Create a fade in for track #4	Projector	15min
<i>Introduction</i>	<ol style="list-style-type: none">1. Review of the representation of a "Wave"2. What is a parameter in DAWs?	Reaper	5min
<i>Volume (envelope) Automation</i>	Create a volume automation by: <ol style="list-style-type: none">1. Using the volume meter.2. Using the <i>draw envelope tool (ctrl + mouse left button)</i>	Reaper	5min
<i>Panning Automation</i>	Create a panning automation by: <ol style="list-style-type: none">1. Using the panning knob.2. Using the <i>draw envelope tool (ctrl + mouse left button)</i>.	Reaper	5min
<i>Exercise</i>	<ol style="list-style-type: none">1. Create a new project with sample rate of 44100HZ and depth of 16 bits.2. Import and audio file3. Create a fade in with volume automation.4. Create a fade out with the <i>fade in/out tool</i>	Reaper	10 min

	5. Export sound file in wav format.		
		Total Time	40min

Review from Tutorial 1: Daw Familiarization

Summary

1. Create a new file: **File -> New Project.**
2. Save project as: **File -> Save project as** (remember to select “create subdirectory for project” and “move all media into project directory”).
3. Project settings: **File -> Project settings** (here you can select the sample rate and the bit depth).
4. Copy whole audio file: **select the audio file with the mouse and press Command + c**
5. Copy a section of the audio file: **select the section you want to copy, hold the command key and drag/drop the selected section of the sound file.**
6. Split the sound file: **click where you want to split the sound file and press “s”.**
7. Paste file: **command + v**
8. Trim file: **hover the cursor at the bottom of the right/left corner of the sound file and drag.**

Exercise:

1. Create a new file with the following settings: sample rate at 44100 Hz and a depth of 16 bits.
2. Import an audio file.
3. Copy and paste the whole audio file into a new track
4. Copy and paste the 1st half of the sound file into another new track.
5. Copy and paste the 2nd half of the sound file into another new track
6. Create a fade out for track #3
7. Create a fade in for track #4