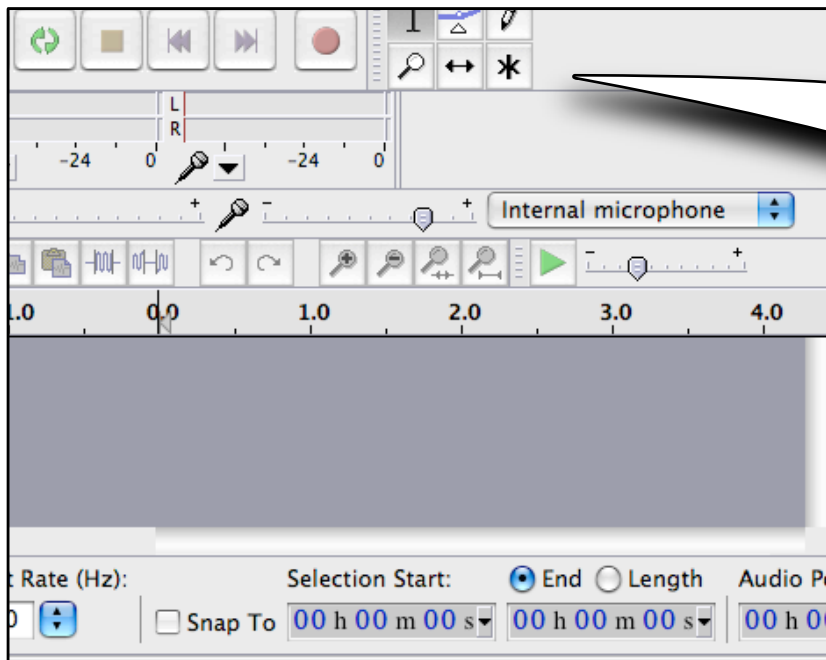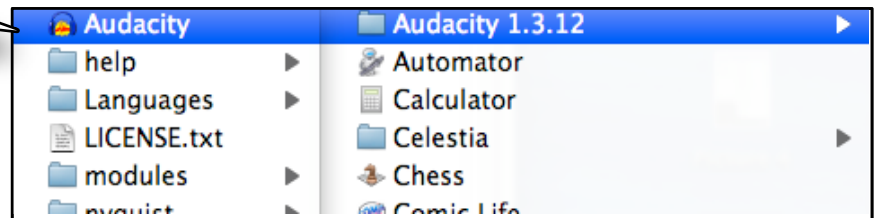# audacity tutorial
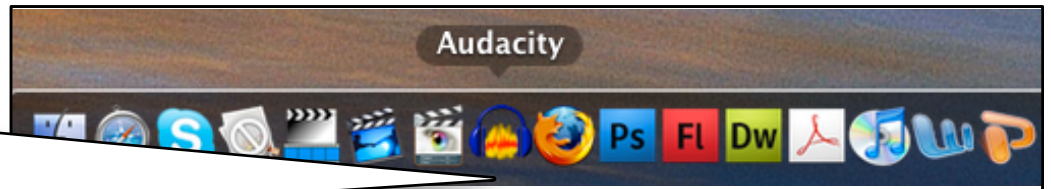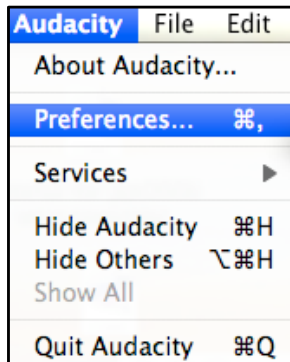## getting started

To start audacity, hit the icon on the bottom of the screen or open from **Applications**.

Audacity

Audacity	Audacity 1.3.12 ▶
help ▶	Automator
Languages ▶	Calculator
LICENSE.txt	Celestia ▶
modules ▶	Chess
nyquist ▶	Comic Life

Audacity will open in a new window

L
R

-24   0   -24   0

+ −

Internal microphone

1.0   0.0   1.0   2.0   3.0   4.0

Rate (Hz):

Snap To   00 h 00 m 00 s ▾   00 h 00 m 00 s ▾   00 h 00

Selection Start: ⦿ End ◯ Length   Audio Po

HOW to ReCORD YOUR VOiCE

Audacity File Edit

About Audacity...

Preferences...   ⌘,

Services   ▶

Hide Audacity   ⌘H
Hide Others   ⌥⌘H
Show All

Quit Audacity   ⌘Q

Step 1. To choose how you will like to record your voice, select

---

Audacity Preferences

Devices
Playback
Recording
Quality
Interface
Tracks
Import / Export
Projects
Libraries
Spectrograms
Directories
Warnings
Effects
Keyboard
Mouse

Interface

Host: Core Audio

Using: PortAudio V19-devel (built Apr 1 2010 16:52:40)

Playback

Device: Built-in Output

Recording

Device ✓ Built-in Microphone
       Built-in Input
       Logitech USB Headset

Channels

Cancel   OK

Step 2. Select "Devices"

Step 3. 1. Do not select "Built-in MIcrophone"
2. "Built-in Input" refers to actual microphones that can be rented from the equipment room and connected to devise below
3. "Logitech USB Headset" refers to the headset that is already plugged into the computer

"Built-in Input"

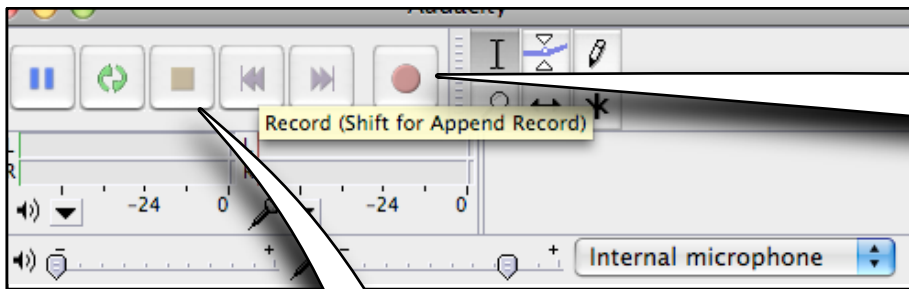"Logitech USB Headset"

Step 4. Hit "OK" when finish

How to Use Voice Recording Devises

"Logitech USB Headset"

"Built-in Input"

To start a new track, click the record button

Record (Shift for Append Record)

Click the stop button to end the recording

Audacity

Record (Shift for Append Record)

Internal microphone

Clicking the record button again will create a new track.

Internal microphone

Each track can be deleted or muted individually

Selection Tool

Internal microphone
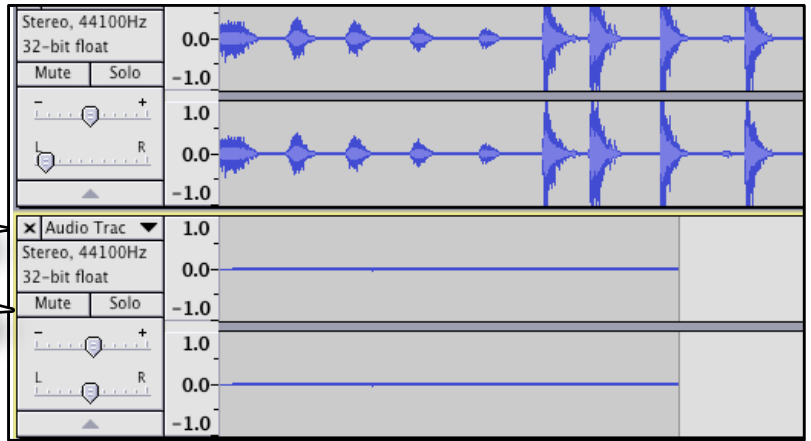
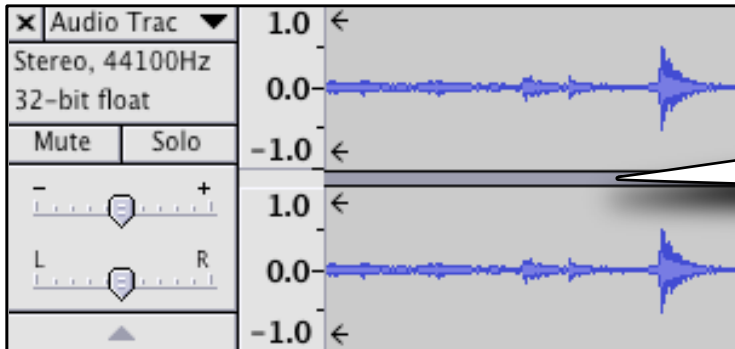Use the selection tool to copy or delete selections from the track
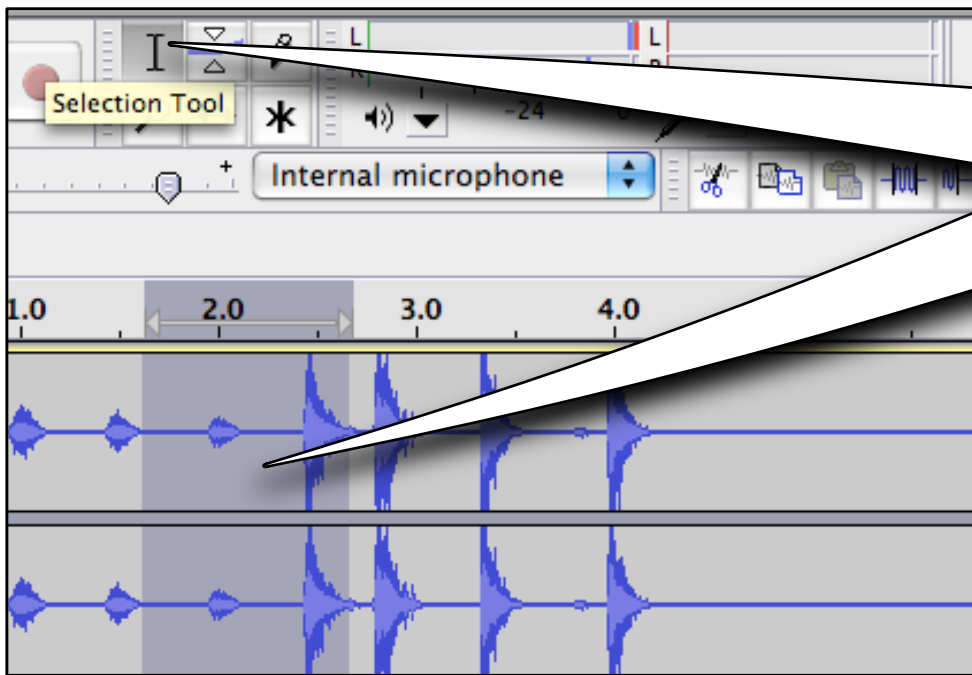
You can also do a selection by putting in the starting time and ending time/length
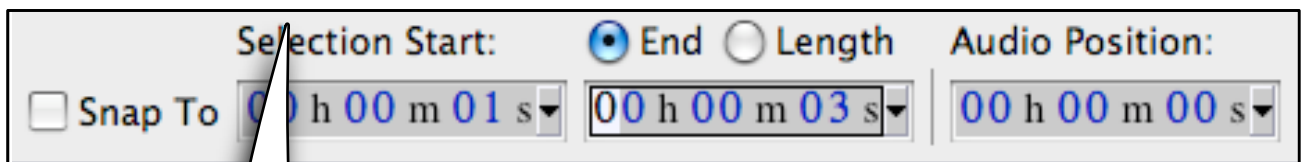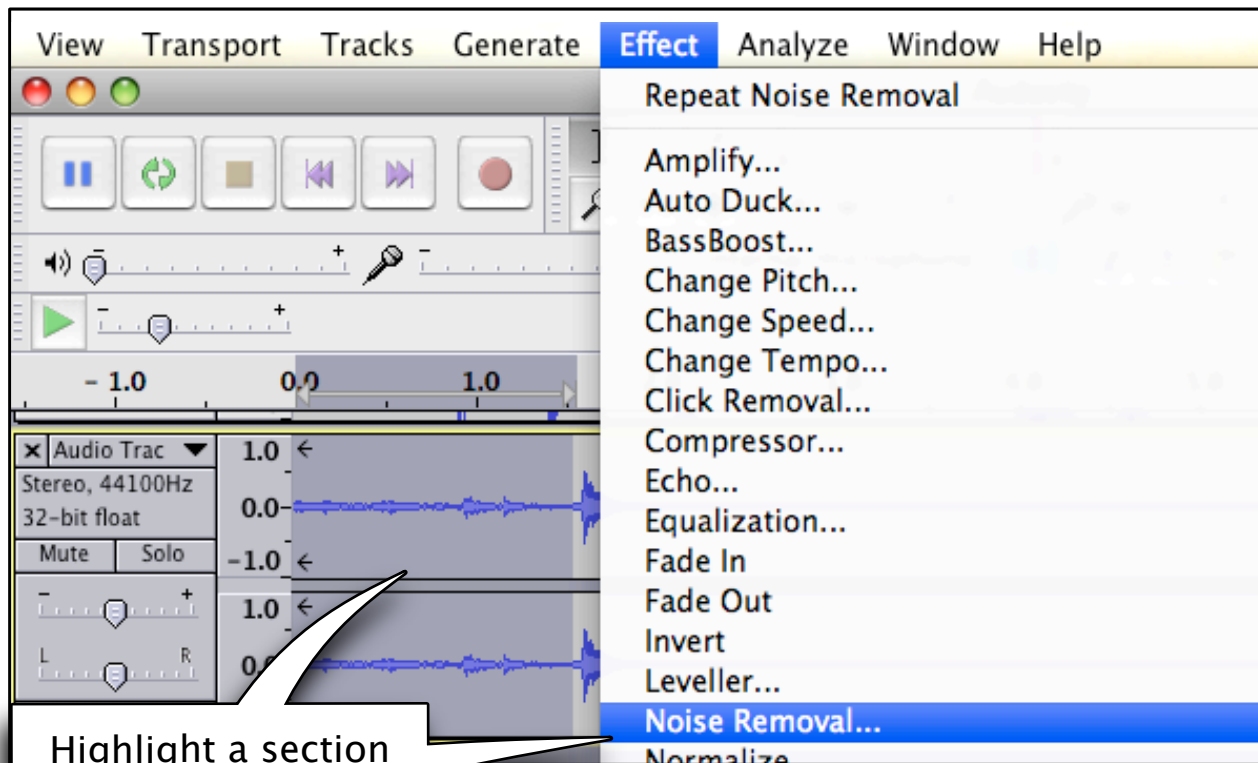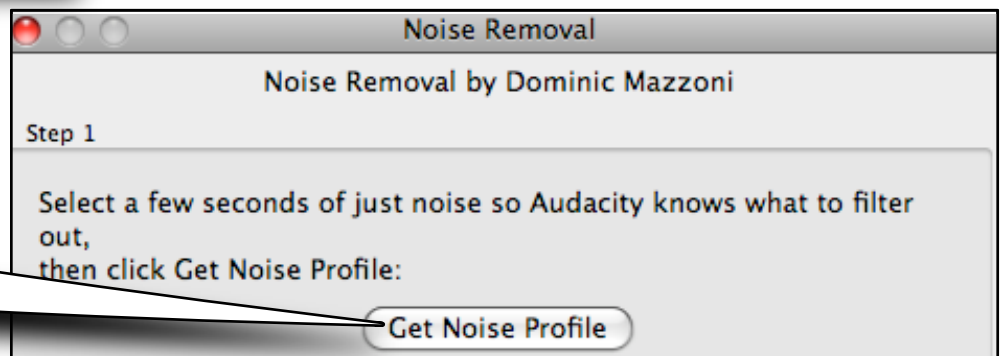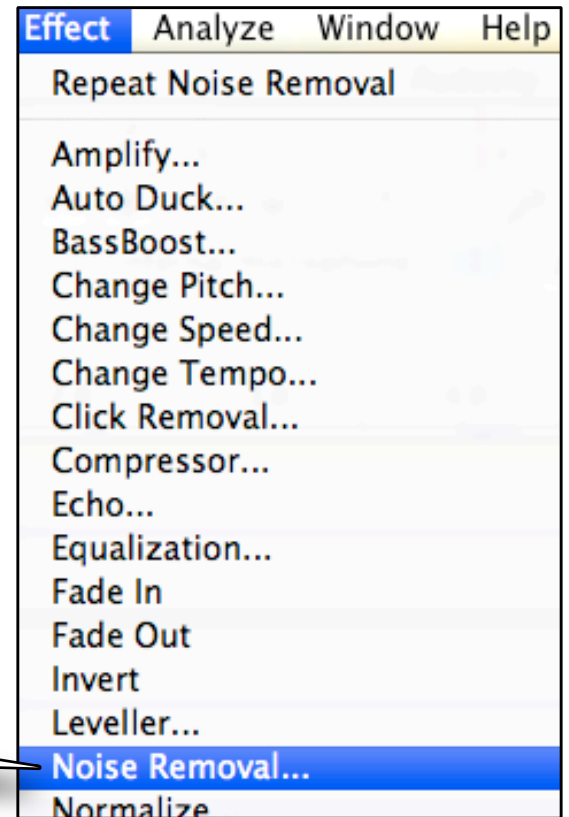
EFFECTS
NOISE REMOVAL

To remove noise from your recording, first record the background of the place in which you are doing recording

Audio Trac
Stereo, 44100Hz
32-bit float
Mute | Solo
1.0
0.0
-1.0
1.0
0.0
-1.0
L   R

View   Transport   Tracks   Generate   Effect   Analyze   Window   Help

Repeat Noise Removal

Amplify...
Auto Duck...
BassBoost...
Change Pitch...
Change Speed...
Change Tempo...
Click Removal...
Compressor...
Echo...
Equalization...
Fade In
Fade Out
Invert
Leveller...
Noise Removal...
Normalize

Audio Trac
Stereo, 44100Hz
32-bit float
Mute | Solo
1.0
0.0
-1.0
1.0
0.0
L   R

- 1.0   0.0   1.0

Highlight a section of noise and choose noise removal...

Noise Removal

Noise Removal by Dominic Mazzoni

Step 1

Select a few seconds of just noise so Audacity knows what to filter out,
then click Get Noise Profile:

(Get Noise Profile)

...and select get noise profile

Effect   Analyze   Window   Help

Repeat Noise Removal

Amplify...
Auto Duck...
BassBoost...
Change Pitch...
Change Speed...
Change Tempo...
Click Removal...
Compressor...
Echo...
Equalization...
Fade In
Fade Out
Invert
Leveller...
Noise Removal...
Normalize
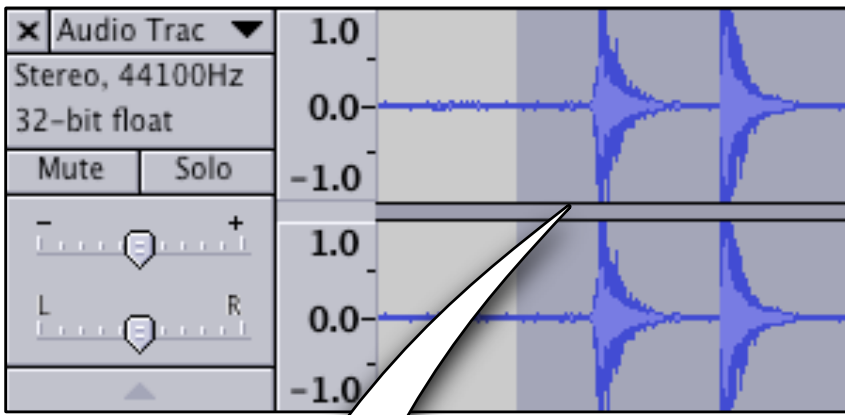
Then highlight the section that you want the noise to be removed, and select voice removal again

Step 2

Select all of the audio you want filtered, choose how much noise you want
filtered out, and then click 'OK' to remove noise.

Noise reduction (dB):   30

Frequency smoothing (Hz):   1 0

Attack/decay time (secs):   0.15

Preview   Cancel   OK
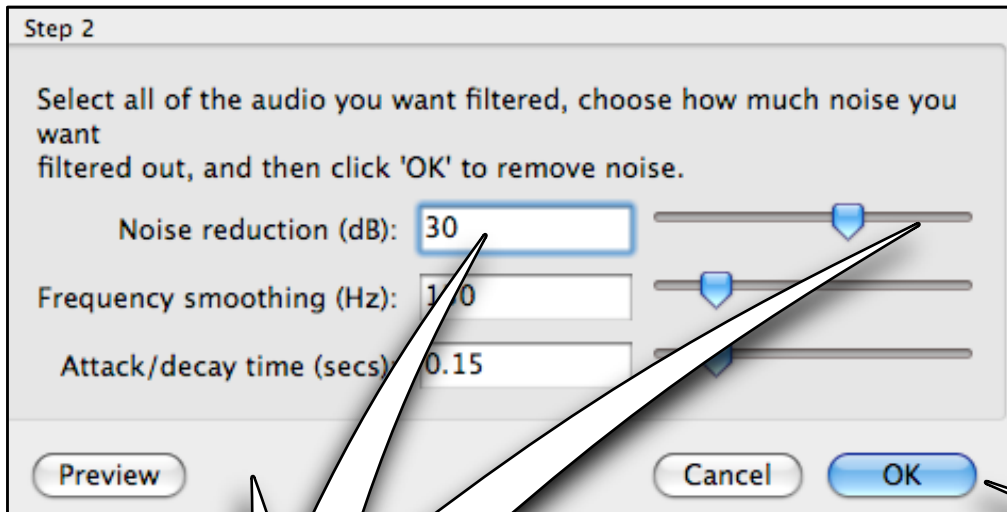
Select or type in noise reduction and hit preview to listen to the effect

When satisfied, hit OK

Audio Trac
Stereo, 44100Hz
32-bit float
Mute   Solo

1.0
0.0
-1.0
1.0
0.0
-1.0

fade in/out

Effect   Analyze   Window   Help

Repeat Fade Out   ⌘R

Amplify...
Auto Duck...
BassBoost...
Change Pitch...
Change Speed...
Change Tempo...
Click Removal...
Compressor...
Echo...
Equalization...
Fade In
Fade Out
Invert
Leveller...
Noise Removal

You can fade tracks in and out by highlighting a section and choosing effect>fade in/out
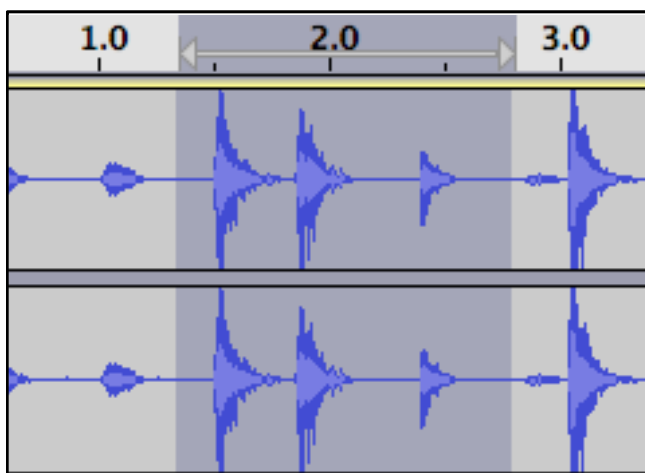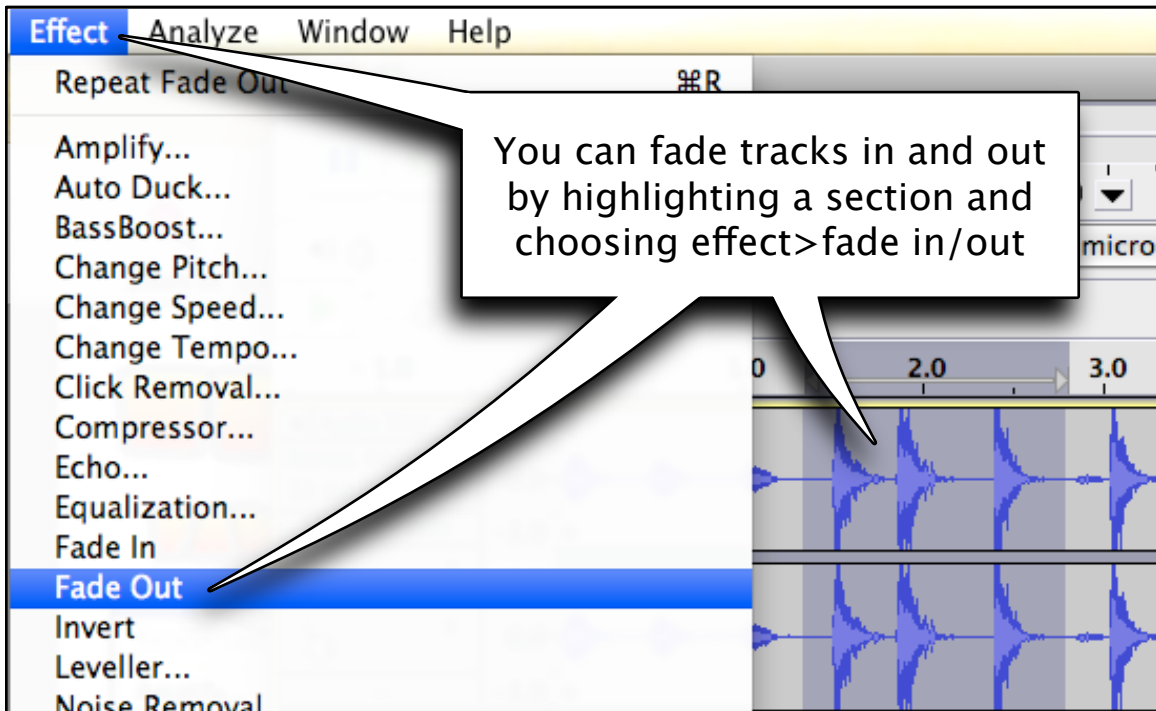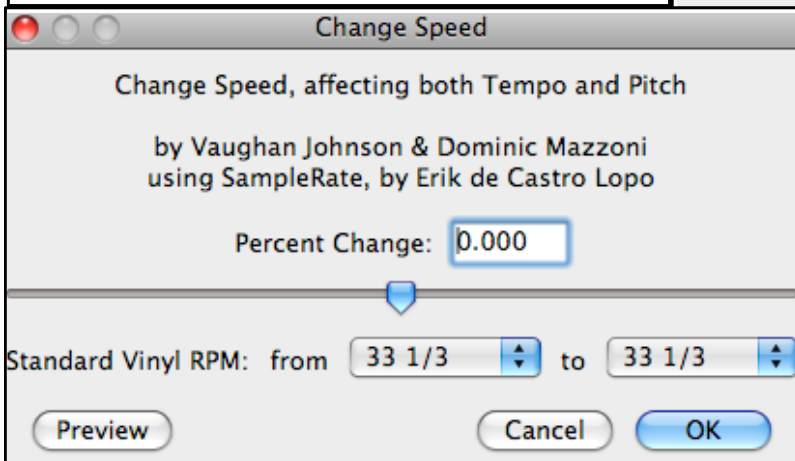
Notice the change on the last sound wave in highlighted area

change pitch/speed/tempo

Effect   Analyze   Window   Help

Repeat Last Effect

Amplify...
Auto Duck...
BassBoost...
Change Pitch...
Change Speed...
Change Tempo...
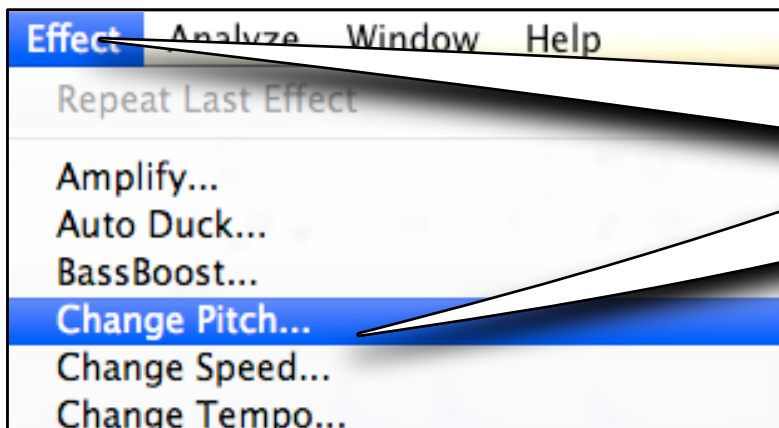
To change pitch/speed/tempo, highlight a section and select effect>change pitch/

Change Pitch

Change Pitch without Changing Tempo

by Vaughan Johnson & Dominic Mazzoni
using SoundTouch, by Olli Parviainen

Pitch: From: [D]   ○ Up   To: [D]
              ● Down

Semitones (half-steps): [0.00]

Frequency (Hz): from [604.110]   to [604.110]

Percent Change: [0.000]

[Preview]   [Cancel]   [OK]

Change Tempo

Change Tempo without Changing Pitch

by Vaughan Johnson & Dominic Mazzoni
using SoundTouch, by Olli Parviainen

Percent Change: [0.000]

Beats per minute: from [ ] to [ ]

Length (seconds): from [6.99] to [6.99]

[Preview]   [Cancel]   [OK]

Change Speed

Change Speed, affecting both Tempo and Pitch

by Vaughan Johnson & Dominic Mazzoni
using SampleRate, by Erik de Castro Lopo

Percent Change: [0.000]

Standard Vinyl RPM: from [33 1/3] to [33 1/3]

[Preview]   [Cancel]   [OK]

NOTICE: change pitch will not change tempo

change tempo will not change pitch

echo...

Effect   Analyze   Window   Help

Repeat Echo   ⌘R

Amplify...
Auto Duck...
BassBoost...
Change Pitch...
Change Speed...
Change Tempo...
Click Removal...
Compressor...
Echo...
Equalization...

You can generate an echo effect by highlighting a section and choosing

Echo

by Dominic Mazzoni & Vaughan Johnson

Delay time (seconds): 2
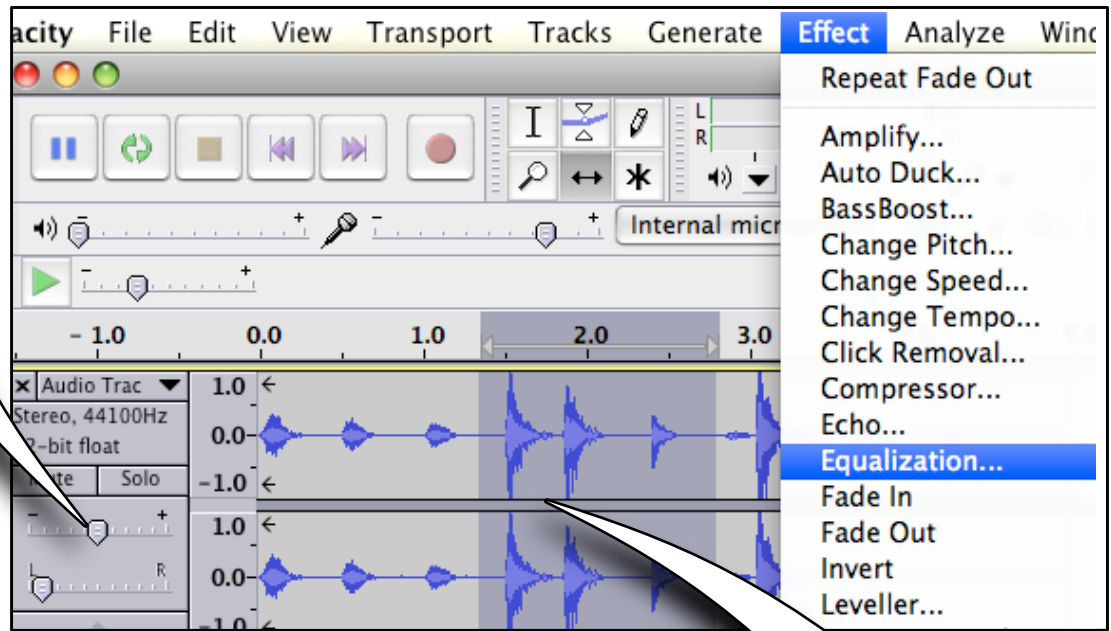
Decay factor: 0.5

Preview   Cancel   OK
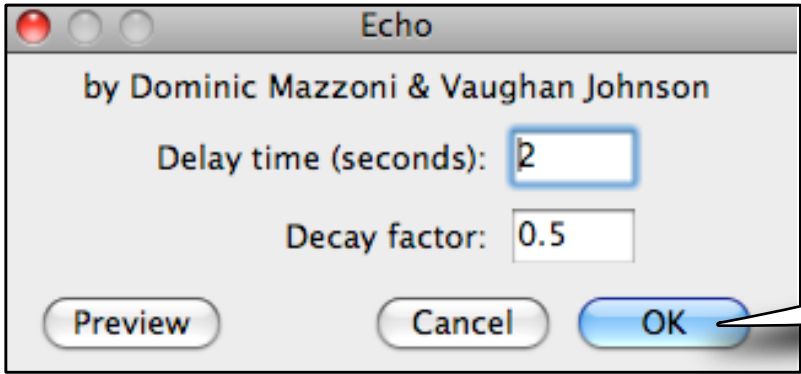
Hit ok when you finish
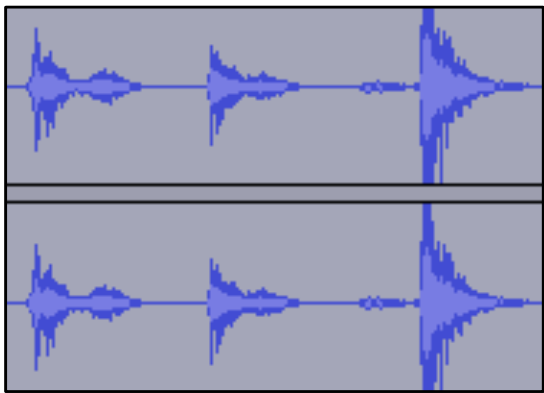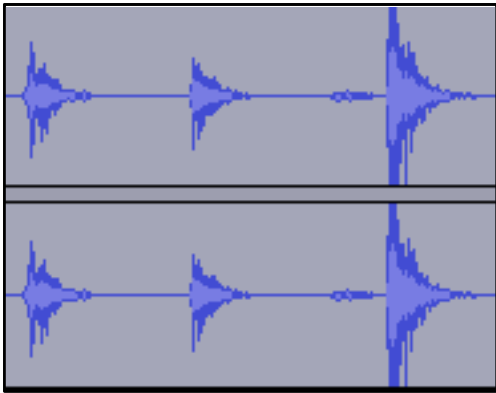
Notice the change after the echo effect

adjusting output levels

You can use the slider bar to adjust output

acity   File   Edit   View   Transport   Tracks   Generate   **Effect**   Analyze   Wind

Repeat Fade Out

Amplify...
Auto Duck...
BassBoost...
Change Pitch...
Change Speed...
Change Tempo...
Click Removal...
Compressor...
Echo...
Equalization...
Fade In
Fade Out
Invert
Leveller...

Internal micr
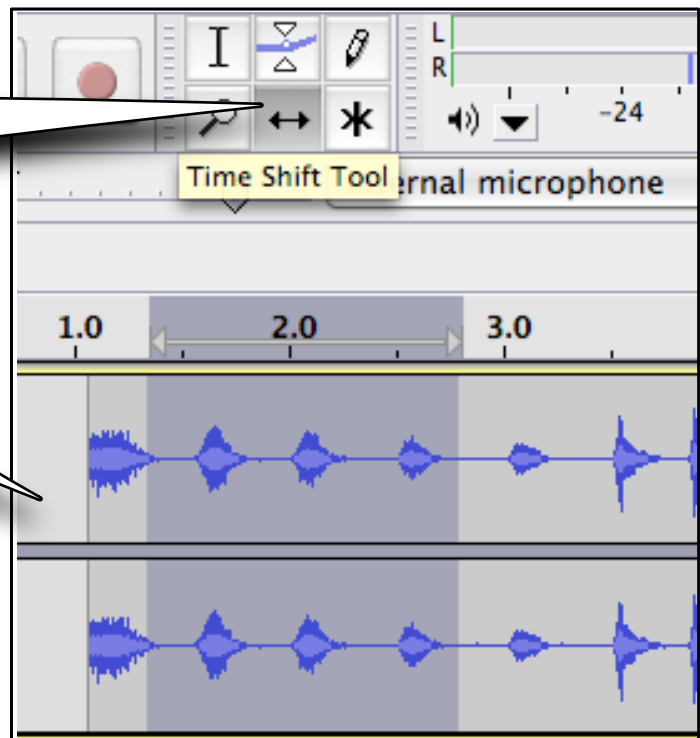
First highlight track you want to change

This can also be done by using the equalization tool
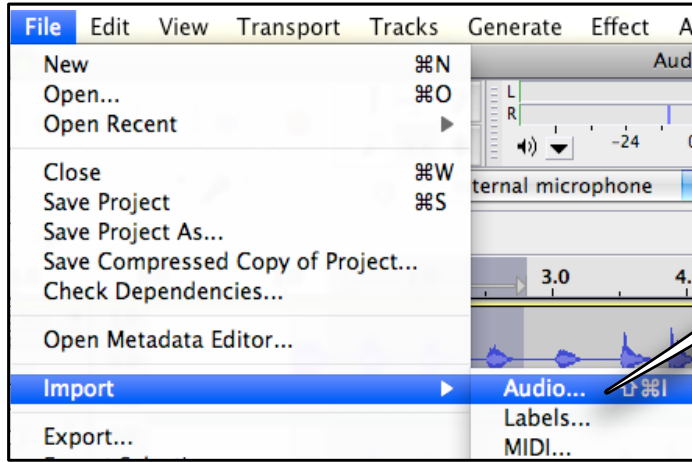
Then pull the purple line at any spot to adjust levels

Equalization, by Martyn Shaw & Mitch Golden

30dB
24dB
21dB
18dB
15dB
12dB
9dB
6dB
3dB
0dB
-3dB
-6dB
-9dB
-12dB
-15dB
-18dB
-21dB
-24dB
-30dB

20Hz   40Hz   61Hz   100Hz   200Hz   400Hz   1000Hz   2000Hz   4000Hz   10000Hz

◉ Draw curves   ○ Graphic EQ   ☐ Linear frequency scale   Length of filter:_____4001

Select curve: custom ▾   Save As...   Delete   Flatten   Invert   ☑ Grids

Preview   Cancel   OK
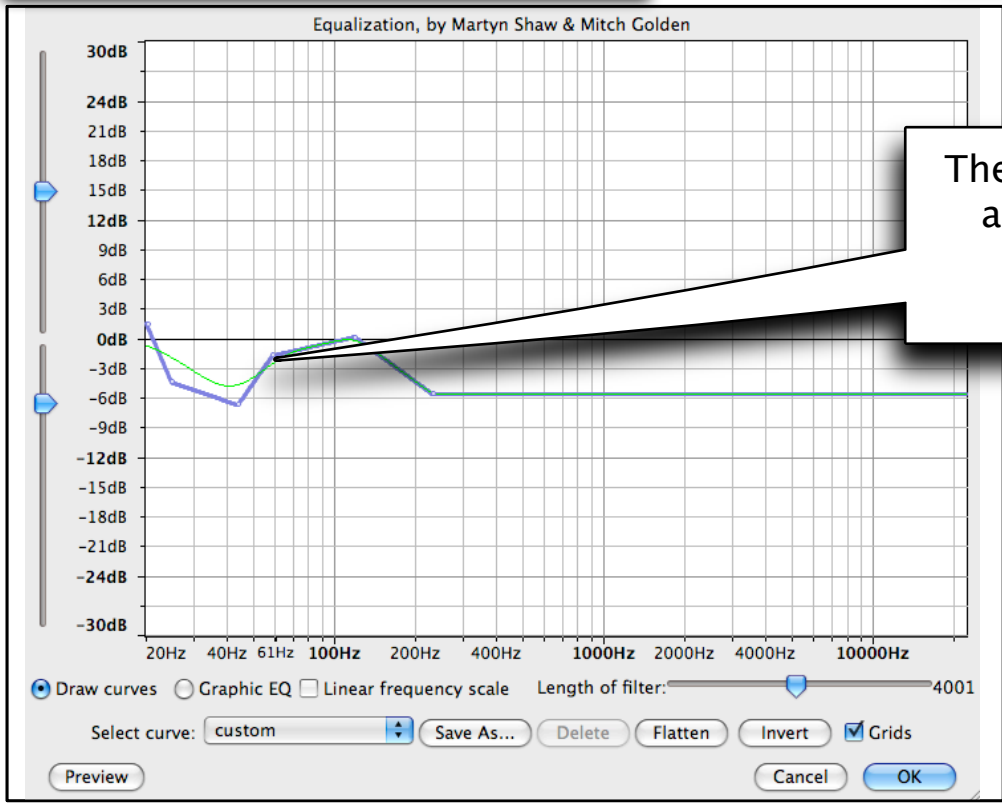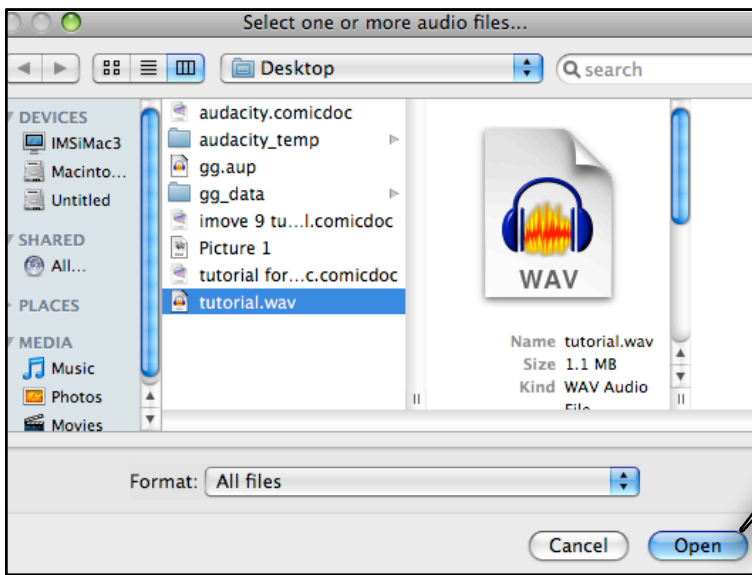
shift tracks

Use the time shift tool to stagger the tracks
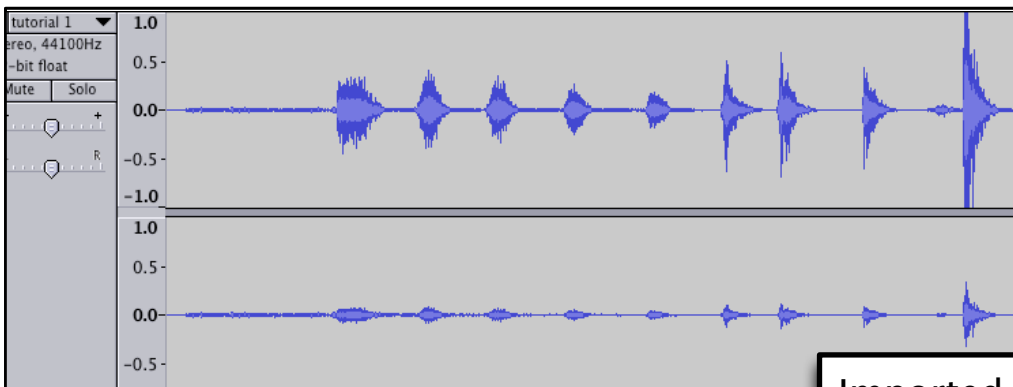
import audio

To import music, choose

Navigate to your file and hit

Imported music will be on a new
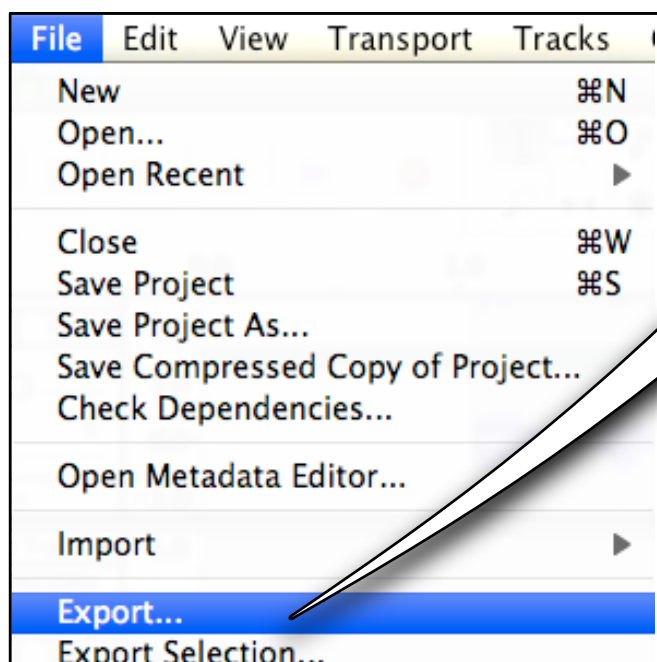
saving and exporting your project

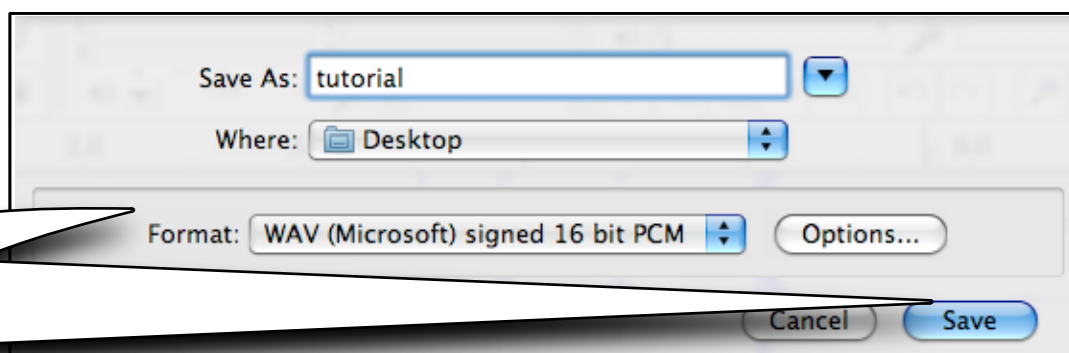| File	Edit	View	Transport	Tracks
New				⌘N
Open...				⌘O
Open Recent				▶
Close				⌘W
Save Project				⌘S
Save Project As...				
Save Compressed Copy of Project...				
Check Dependencies...				
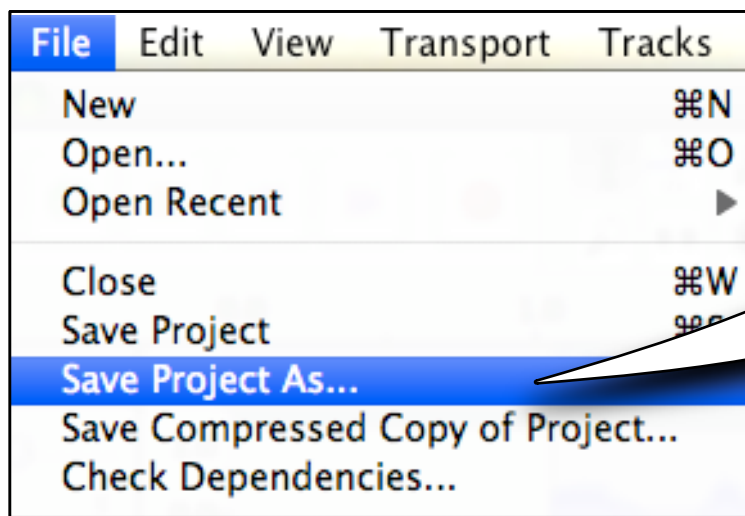
Always save using save project as. This will create a file and a folder with same name. you need to keep both to open file

File	Edit	View	Transport	Tracks
New				⌘N
Open...				⌘O
Open Recent				▶
Close				⌘W
Save Project				⌘S
Save Project As...				
Save Compressed Copy of Project...				
Check Dependencies...				
Open Metadata Editor...				
Import				▶
Export...				
Export Selection...				

When finished, choose file>export

Save As: tutorial

Where: 🖿 Desktop

Format: WAV (Microsoft) signed 16 bit PCM   Options...

Cancel   Save

You can change the format here

Hit save when you finish

THE END...