Project 2: Interior Design Website

- - 1. Steptime input-adding notes in musical steps
 - 2. Quantising- including Swing Quantise
 - 3. Real-time note input using a MIDI controller
 - 4. Editing notes-velocity, duration, pitch, note position

Scenario: Interior Design Website

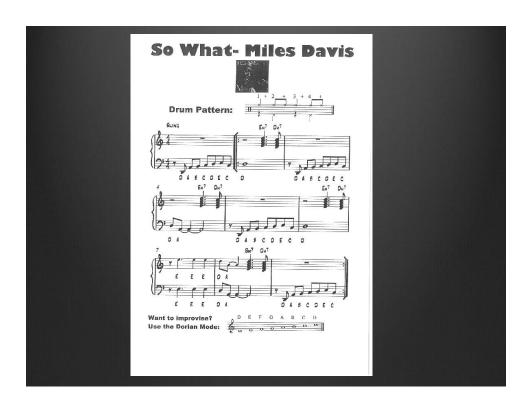


You have been approached to create a piece of music for an interior design website. The music will loop in the background while potential clients browse the LivingSpace website. The client has requested easy listening jazz and particularly likes the *Kind of Blue* album by Miles Davis.

You need to do the following:

- 1. Create a music sequence in a jazz style
- 2. It has to loop seamlessly-it cannot fade out or have a definite ending (cyclic)
- 3. It has to be in an audio format suitable for online use
- 4. Needs to completed in 60 mins
- 5. Remember, the longer the file the bigger the file size, keep the sequence between 20-40 secs

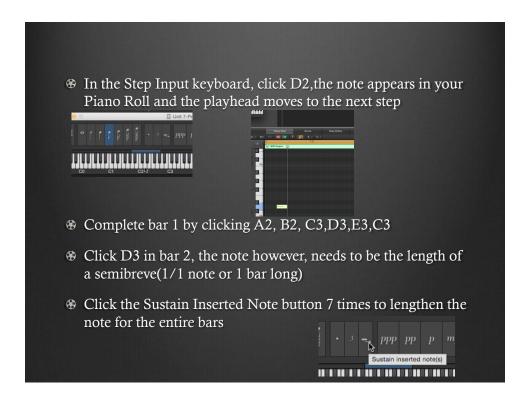




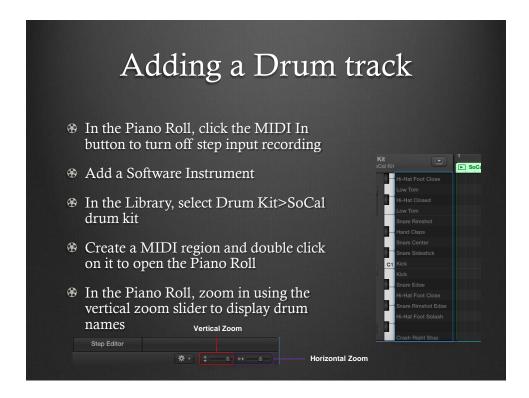


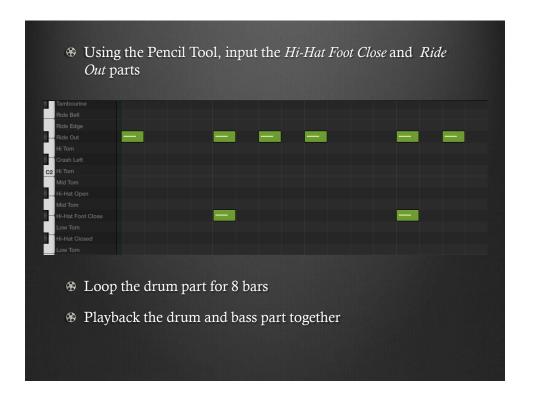


Logic Pro X	Note Name	Note
1/1 note	Semibreve	o
1/2 note	Minim	
1/4 note	Crotchet	
1/8 note	Quaver)
1/16 note	Semiquaver	A
1/32 note	Demisemiquaver	À
1/64 note	Hemidemisemiquaver	ß



Full Step Input Table										
STEPS	Bar 1	Bar 2	Bar 3	Bar 4	Bar 5	Bar 6	Bar 7	Bar 8		
1	Spacebar	D3	Spacebar	D3	Spacebar	D3	Spacebar	D3		
2	D2	Sustain Inserted Note	D2	A2	D2	Sustain Inserted Note	E3	A2		
3	A2	Sustain Inserted Note	A2	Sustain Inserted Note	A2	Sustain Inserted Note	Sustain Inserted Note	Sustain Inserted Note		
4	B2	Sustain Inserted Note	B2	Sustain Inserted Note	B2	Sustain Inserted Note	Sustain Inserted Note	Sustain Inserted Note		
5	C3	Sustain Inserted Note	C3	Sustain Inserted Note	C3	Sustain Inserted Note	E3	Sustain Inserted Note		
6	D3	Sustain Inserted Note	D3	Sustain Inserted Note	D3	Sustain Inserted Note	Sustain Inserted Note	Sustain Inserted Note		
7	E3	Sustain Inserted Note	E3	Sustain Inserted Note	E3	Sustain Inserted Note	E3	Sustain Inserted Note		
8	C3	Sustain Inserted Note	C3	Sustain Inserted Note	C3	Sustain Inserted Note	Sustain Inserted Note	Sustain Inserted Note		





Adding Swing

- At the moment, the sequence is sounding very mechanical and the rhythm is straight, lacking the groove of jazz
- Tou will need to add some swing to both parts
- ⊕ In the Piano Roll, select all notes (Command-A)
- ★ Change the Time Quantize setting to 1/8 notes
- Adjust the swing slide to 80



Ensure you make the change to both drums and bass

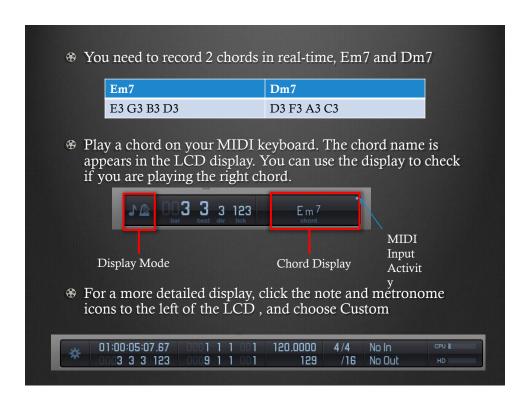
1/1 Note 1/2 Note 1/4 Note 1/4 Note 1/16 Note 1/16 Note 1/32 Note 1/64 Note 1/2 Triplet (1/3) 1/4 Triplet (1/6) 1/8 Triplet (1/2) 1/16 Triplet (1/24) 1/32 Triplet (1/48) 1/64 Triplet (1/96)

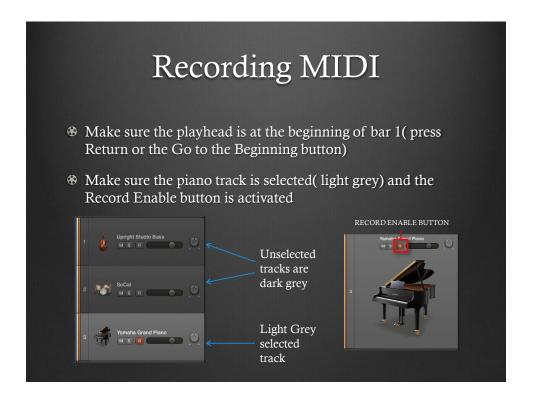
Real-Time Note Input

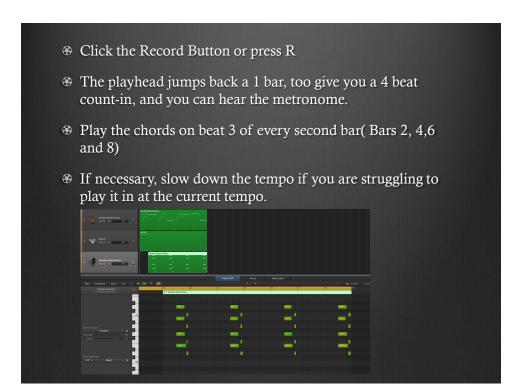
- Add a Software instrument
- In the Library, Choose Yamaha Grand Piano(or any other piano)
- Play a few notes on the MIDI keyboard controller to hear the piano sound

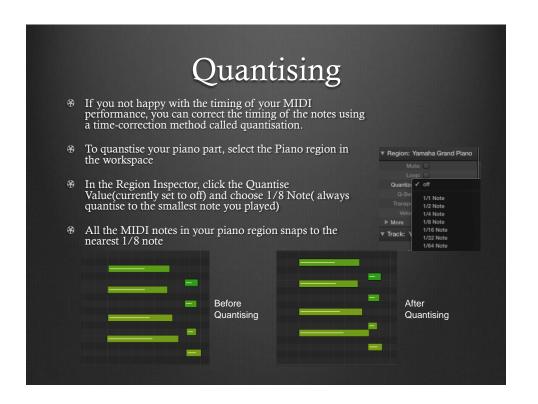
A MIDI keyboard controller looks like a standard keyboard but it only transmits MIDI data(no built in sounds). The MIDI data is sent via a USB cable









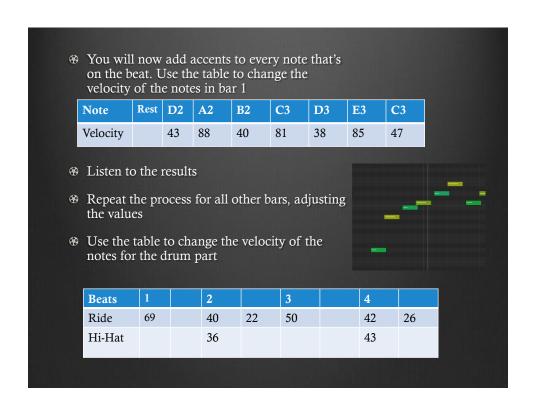


Editing Notes

- In Project 1, you learnt how to lengthen a note with the Resize Tool
- You can create a more realistic performance by editing notes the notes of the Upright Bass Part using:
- 1. Note Velocity
- 2. Pitch Bend
- 3. Transposing Notes

When you play a MIDI keyboard, you want to control how loud each note is played. To judge how hard you press the keys, MIDI keyboards measure the speed at which each key is depressed. That speed is called *velocity*. Be Editing note velocity is a simple way of adding accents to notes and making the overall performance less mechanical In the Left-click Tool menu at the top of the Piano Roll, choose the Velocity Tool(or press T for the Tool Menu and the press 9

Using the Velocity Tool, drag the first note up or down. As you dragging the MIDI note is triggered repeatedly so that you can hear the sound of the note at different velocities. Notice at higher velocities the bass sound is plucked harder and have more attack
 The velocity value ranges from 0-127 and this is indicated by note colour
 Low Velocity Medium Velocity High Velocity
 By default all the notes you created has a value of 80



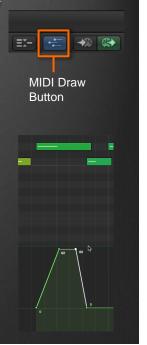
More Performance Techniques

You can add expression to your performance by using MIDI Continuous Controllers(e.g. Pitch Bend and Modulation Wheel)

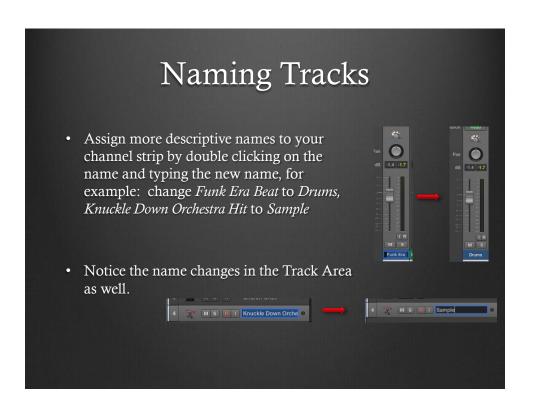


- Tou can add it in real time by adjusting the pitch or modulation wheel on the MIDI keyboard while you play or automate it after the performance.
- You will automate the Pitch Bend controller to add a slide(or note bend) effect on the bass part

- At the top of the Piano Roll, click the MIDI Draw button
- The MIDI Draw area opens at the bottom of the Piano Roll
- In the MIDI Draw Inspector, from the Controller pop-up menu, choose Pitch Bend
- You will bend D3 up to E3, delete E3 and lengthen D3
- In the MIDI Draw, click to create a control point at the beginning and end of D3, make sure the value at the control point is zero
- © Create another control point at beat 4, and drag it up to the highest value possible
- © Create one final control point, approx. 1/8 note long and drag it to the highest value possible
- Listen to the result



Now that you arranged your regions in the workspace, you can focus on the sound of each instrument and how they sound together. You can adjust the instruments loudness(Volume) and its position in the stereo field(Pan) • In the control bar, click the Mixer button(shortcut X) • At the bot the Mixer opens



Adjusting Volume and Stereo Position

- Place the mouse pointer between the Track area and Mixer area. The Resize pointer appears
- Drag the Resize pointer up as far up as it will go. The Mixer is now taller and you can see more options at the top of the channel strip
- The Volume Fader affects how much gain is applied to the signal flowing through the channel strip
- The Pan places the instrument in the stereo field. -64 is hard left and +63 is hard right



Processing instruments with Plug-Ins

There is more to mixing than adjusting each instrument's volume and stereo position. Now you will apply effect plug-ins to process the audio signal, thereby changing the tone of the instrument

- ♦ Plug-Ins can be added either as an INSERT or a SEND effect
- * INSERT effects are added directly to the signal flowing through the channel. It shapes the overall sound, processing such as EQ and Compression is useful as an INSERT
- SEND effects are placed on a special track called an Auxiliary or Aux Track and the signal is send via a BUS. You can determine the amount of signal that is sent to the Aux Track. This is useful when you have more than one instrument using the same effect for example putting all instruments in the same space using Reverb.