Module 4: Recording MIDI and Audio
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Objectives:

- Make selections for recording
- Set up your session for recording
- Work with different MIDI input recording options
- Perform loop recording operations
Recording Selections

• Creating a Selection
  • Using Memory Locations for Selections
  • Using Timeline Selection Markers to Adjust a Selection
  • Using Clips to Create Timeline Selections

• Using Pre- and Post-Roll
  • Setting Pre- and Post-Roll in the Transport Window
  • Setting Pre- and Post-Roll in a Playlist
  • Setting Pre- and Post-Roll in the Timebase Ruler
  • Enabling Pre- and Post-Roll from the Options Menu
Setting up the Session

• Displaying Conductor Rulers
  • Choose View > Rulers
  or
  • Click the Ruler View Selector in the Edit window

• Adding Meter and Tempo Events
  • Meter defaults to 4/4
  • Tempo defaults to 120 BPM
  • To add events:
    • Click + button at the left of the desired ruler
    • Hold Control (Mac) or Start (Windows) and click in the desired ruler
    • Double-click the Current Meter display in the Edit or Transport window (Meter Change Only)
Setting up the Session (2)

- Creating a Linear Tempo Change
  - Choose Event > Tempo Operations > Linear
  - Linear Page Default Options
    - Advanced
    - Selection Start and End
    - Tempo Start and End
    - Preserve Tempo After Selection
  - Linear Page Advanced Options
    - Calculate
    - Selection Start and End
    - Alternate Start and End
    - Tempo Start and End
    - Resolution
    - Density
Setting up the Session (3)

• Recording with a Click
  • To Enable/Disable Click
    • Click the Metronome button in the MIDI Controls
    • Select Options > Click
  • To Enable Disable Countoff
    • Click the Count Off button in the MIDI Controls
  • To Configure Click Options
    • Choose Setup > Click/Countoff
    • Double-Click the Metronome or the Countoff Value Display in the MIDI Controls
MIDI Step Input

- **Setup**
  1. Choose Event > Event Operations > Step Input
  2. Select Enable option to record
  3. Select Destination track for recording
  4. Choose a note value under Step Increment

- **Recording**
  - Play a note to record a step
  - Press Undo Step to undo the note
  - Press Redo Step to redo the note
  - Press Next Step to move forward by the Step Increment

- **Using MIDI Triggers**
  1. Click in field below Undo Step, Next Step, or Redo Step
  2. Play a MIDI note to use as a trigger
  3. Press Return (Mac) or Enter (Windows) to confirm the assignment
## MIDI Step Input (2)

- Using Numeric Keypad Shortcuts for Step Input

<table>
<thead>
<tr>
<th>Step Input Shortcut</th>
<th>Key</th>
</tr>
</thead>
<tbody>
<tr>
<td>Whole Note</td>
<td>1</td>
</tr>
<tr>
<td>1/2 Note</td>
<td>2</td>
</tr>
<tr>
<td>1/4 Note</td>
<td>4</td>
</tr>
<tr>
<td>1/8 Note</td>
<td>5</td>
</tr>
<tr>
<td>1/16 Note</td>
<td>6</td>
</tr>
<tr>
<td>1/32 Note</td>
<td>7</td>
</tr>
<tr>
<td>1/64 Note</td>
<td>8</td>
</tr>
<tr>
<td>Dotted Note</td>
<td>. (decimal key)</td>
</tr>
<tr>
<td>Toggle Tuplet On/Off</td>
<td>3</td>
</tr>
<tr>
<td>Next Step</td>
<td>Enter</td>
</tr>
<tr>
<td>Undo Step</td>
<td>0</td>
</tr>
</tbody>
</table>
Loop Recording Audio

• To Enable Loop Record:
  • Options > Loop Record
  • Option + L (Mac) or Alt + L (Windows)
  • [5] on the Numeric Keypad

• Select Options > Link Timeline and Edit Selection

• Enable Pre-Roll if desired

• To Cancel all recorded takes:
  • Press Command + Period (Mac) or Ctrl + Period (Windows)
Loop Recording MIDI

• Loop Recording Multiple Takes
  • Each record pass generates a unique MIDI clip
  • Choose Options > Loop Record

• Loop Playback with MIDI Merge
  • Each record pass adds new data to the selected MIDI clip
  • Disable Options > Loop Record
  • Enable Loop Playback
    • Options > Loop Playback
    • Command + Shift + L (Mac) or Ctrl + Shift + L (Windows)
    • [4] on the Numeric Keypad
  • Enable MIDI Merge in the MIDI Controls
Auditioning Loop Record Takes

• Setting the Match Criteria
  • Open the Match Criteria window
    • Command-Click (Mac) or Ctrl-Click (Windows) within a selected clip and choose Match Criteria
    • Right-click within a clip and select Matches > Match Criteria
  • Set the Main Filters
    • Track ID
    • Track Name
    • Clip Rating
  • Time Stamps
    • All
    • Clip Start
    • Clip Start and End
    • Within Selection
    • None
Auditioning Loop Record Takes (2)

• Selecting Alternate Takes
  • Command-click (Mac) or Ctrl-click (Windows) with the Selector tool on a selected clip and choose an alternate take

• Right-click with the Selector or the Grabber Tool on a clip and choose an alternate take from the Matches sub-menu
Review/Discussion Questions

1. Describe three different ways to make a selection for recording.

2. Describe three ways to set the Pre- and Post-roll values. What modifier do you use to set Pre- and Post-roll in a track playlist?

3. What menu would you use to display Conductor rulers, such as Meter and Tempo? How can you display rulers without using a main menu?

4. What are the default tempo and meter for all Pro Tools sessions?

5. What modifier key would you hold while clicking on a ruler to add a Meter or Tempo change to your session?
Review/Discussion Questions  (2)

6. What main menu would you use to access the Tempo Operations window? What is the purpose of the Linear page in the Tempo Operations window?

7. What is the purpose of the note, velocity, and duration fields for accented and unaccented notes in the Click/Countoff dialog box? When would you need to set these options?

8. What is the name of the feature that lets you use a MIDI controller to enter notes individually, one step at a time? Do tracks need to be record-enabled to use this feature?

9. How do you enable loop recording for audio? What are the two ways to record MIDI while looping?

10. How do you access the Alternate Takes list? How can you restrict, or filter, the results displayed in the Alternate Takes list?