MUS:4250 COMPOSITION: ELECTRONIC MEDIA I Fall 2016 Pro Tools Overview

- 1. Multi-track DAWs
 - a. Pro Tools history
 - b. Other DAWs: GarageBand, Logic, Digital Performer, Reaper
- 2. Interfaces
 - a. Digidesign interfaces: Digi-001 to 003, M-Box series
 - b. Other interfaces: MOTU and Metric Halo
- 3. Audio sample rate and bit-depth
 - a. Sample rate definition
 - b. Bit depth definition
 - c. Standard formats

4. Editing and Mixing in Pro Tools

- a. Destructive and non-linear editing
- b. Soundfiles and clips
- 5. Edit Window

0 0							📓 Edit: MaySe	essions4f						
SHUFFLE SPOT SLIP GRID V		Q\$- +⇒ +	÷ .+: #	2 ₩ ₽	Cursor	202:0 ³⁴¹	1.944 -	End 2 Length	202:01.944 202:01.944 0:00.000	Grid III Nudge	1 0 000 ▼ 0 0 060 ▼	В		н (
TRACKS		· · · · ·		.			1						++ ► cl	REGIONS DHitMotivesFrags+2-PnT2_1156-250 (Stereo)
	Min:Secs Audio 1 Audio 2 Audio 2 Sim wy red		347:36	347:38	347:40	347:42	347:44	347:46	347:48	347:50		 ↓ ↓	+ + + + + + + + + + + + + + + + + + +	DHIMdolivesFraget2-Pn72_1164-257 (Storeo) DHIMdolivesFraget2-Pn72_1165-257 (Storeo) DHIMdolivesFraget2-Pn72_1170-263 (Storeo) DHIMdolivesFraget2-Pn72_1170-263 L DHIMdolivesFraget2-Pn72_1170-263 L OHIMdolivesFraget2-Pn72_1170-263 L O-101 (DA Channels) O-20 (10A Channels) O-20 (10A Channels) O-40 (10A Channels)
• I <all> a Group 1</all>	Audio 3										< > = + +		> 0 > 0 + 0	Coo (IOX Channels) (10A Channels) (10A Channels) Ata-02 (Stereo) Ata-03 (Stereo)

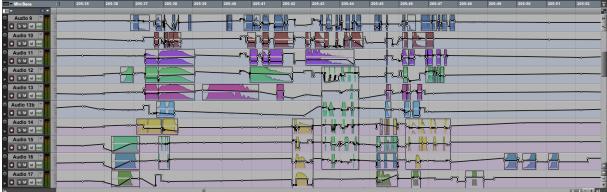
- a. The top panel consists of track mode buttons, zoom buttons, edit tools, counters and edit selection indicators, grid and nudge value selectors, and transport controls.
- b. Directly beneath these icons, is the universe overview.
- c. Underneath the universe view are time markers and rulers.
- d. On the far left, are the Tracks List and Groups List. This column can be hidden and resized at the bottom of the window.
- e. To the right of these lists, are the track controls.
- f. To the right of the track controls are the track playlists; in class, this is referred to as the edit window.
- g. On the far right is the clips list. This column can be hidden and re-sized.
- 6. Clips List
 - a. All audio files, clips, and groups are found in this list.
 - b. Audio soundfiles are displayed in boldfaced font.
 - c. Stereo files consist of 2 mono files, denoted L and R.
 - d. When an audio file is edited, it is displayed in plain font text.
 - e. Audio files and non-audio edits are called clips.
 - f. When a non-audio clip is processed with a plug-in, it becomes an audio file. Appended to such a file is an abbreviation of the type of process or plug-in operation that created it.
 - g. Clips can also be grouped, as seen in the list and discussed in class.
- 7. Window Control
 - a. Re-sizing the window.
 - b. Scroll bars.
 - c. Horizontal zoom key commands are cmd] and cmd[.

Tracks and Clips in the edit window are discussed below.
 a. Shown below are clips organized in tracks.



- b. Notice that some clips are grouped together, which makes moving gestures, motives, and phrases easier.
- c. Consider that a group can be pitch-shifted together as a unit, or the individual tracks can be pitch-shifted independently.
- 9. Track Automation

a. Shown below are the automated volume controls for the clips above in Item 4a.



b. Below are the automated controls for left panning.

Min:ouca		203.33	203.30	203.31	203.30	203.38	203.40	203.41	203.42	203.43	203.44	203.43	203.40	203.47	203.40	203.49	203.30	203.31	203.32
					9.1						8-04 7 - 17 800.	/=0.4							8 <u>7</u>
Audio 9 Audio 9 S M pnL red	-					-		h A H							-				*
Audio 10	R				NRT C-	<u> </u>	_ 					┉┉╝							
S MpnL red	-) I		HE				-					
Audio 11	R						•		<u> </u>					-50 0 0	<u></u>	_			
S M pnL red	-			-	James I					V V Make	·····				~				
Audio 12	R																_		
S M pnL red	-		1		1 month			100	has a										
Audio 13	L				\$ months					~					<u> </u>		_	_	
S M pnL red	-				1			an				T T							
Audio 13b 🎽	ũ.		~ ~ ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	in _	jewie	<u> </u>					<u> </u>			<u> </u>	_	_		
S M pnL red	2				00							T I							
Audio 14 🍸	L.			·····							******	<u></u>		6 11 18	~~~~~				
S M pnL red	R			U U					Â.	<u> </u>									
Audio 15 🍸	L				111	°			· · · · · ·					⊨ ∧ ∥ Ŷ	~				
S M pnL red	R]	U.	11				<u> </u>			U.U.							
Audio 16	4						·		1		90%_80 4 -			Î		7	➡┮	- T	
S MpnL red	R																		A
Audio 17	-				•				_			16				▙			-
D SIM pnL rod	R																		+
 1a																			4 b = + 4

c. Below are the automated controls for right panning.

Min:Secs	4	205:35	205:36	205:37	205:38	205:39	205:40	205:41	205:42	205:43	205:44	205:45	205:46	205:47	205:48	205:49	205:50	205:51	205:52 🚡
UT () T						_													a _z
Audio 9	1			-															*
SM pnR red	R		<u> </u>						_				→			•			
Audio 10	L																		
S MpnRred	R											t		<u> </u>		~			
Audio 11	L			-						WM man		1							
SMpnRred	R		_	~~ <u>,</u>						mmin									
Audio 12	L		~		V-			Am		111	TIT								
SMpnRred	R				V			- Mr											
Audio 13	L				V-			Ann											
S M pnR red	R	_			m		$\sim v$	m											
Audio 13b	L	Ŭ	Ĭ		ĎΠ							Ī							
S M pnR red	R				00						J.A.			8					
Audio 14	1				<u> </u>							00							
S M pnR red	R				U				Ű.	N LL II			Pro A						
Audio 15 🍸	L.								Ĩ			116							
S M pnR red	R			- Loo							- m								
Audio 16	L								1										
S M pnR rod	R	_		-					Im		2.00					7			
Audio 17 🍸	L	, i					·									1			
S M pnR red	8			Ň								In				<u></u>			-
l+					•••					0000						0 0 O			4 > = + +