

The BIG Picture: MIDI and Digital Audio Software in 2003
 From the forthcoming: *Experiencing Music Technology*, 3rd Edition, Williams and Webster

Overall Topic	III: Capturing, Editing, and Storing Digital Audio	IV: Software for Multiple Tracks and Channels of Digital Audio	V. Software Techniques for MIDI Sequencing with Digital Audio	VI: Adventures in Sound Shaping and Synthesis
Software Task	<p data-bbox="365 444 611 477"><u>MP3/AAC Players</u></p> <ul data-bbox="323 488 663 699" style="list-style-type: none"> • Download and listen to MP3/AAC <ul data-bbox="365 558 600 626" style="list-style-type: none"> • Create playlists • Encode MP3/AAC • Create and use streaming media <p data-bbox="396 745 579 777"><u>Audio Editing</u></p> <ul data-bbox="323 789 663 959" style="list-style-type: none"> • Record and edit live sound and CD excerpts • Advanced editing and special effects with stereo sound 	<p data-bbox="747 444 993 477"><u>Multi-Track Audio</u></p> <ul data-bbox="705 488 1045 626" style="list-style-type: none"> • Record multiple tracks of digital audio <ul data-bbox="747 558 993 626" style="list-style-type: none"> • Use built-effects processing <p data-bbox="747 672 993 704"><u>Effects Processing</u></p> <ul data-bbox="705 716 1045 854" style="list-style-type: none"> • Using separate effects plug-ins • Mixing and Mastering, including surround sound <p data-bbox="816 899 936 932"><u>Looping</u></p> <ul data-bbox="705 943 1045 1000" style="list-style-type: none"> • Designing music with loop-based software 	<p data-bbox="1142 444 1367 477"><u>MIDI Sequencing</u></p> <ul data-bbox="1100 488 1440 878" style="list-style-type: none"> • Record multiple tracks with MIDI • Edit MIDI files and use built-in MIDI plug-ins <ul data-bbox="1142 634 1419 740" style="list-style-type: none"> • Using built-in virtual instruments • Adding digital audio • Mixing MIDI and digital audio and converting to digital audio product for distribution 	<p data-bbox="1520 444 1745 477"><u>DAW Sequencers</u></p> <ul data-bbox="1478 488 1818 594" style="list-style-type: none"> • Record, edit, and master with advanced sequencing features <p data-bbox="1520 639 1766 672"><u>Virtual Instruments</u></p> <ul data-bbox="1478 683 1818 821" style="list-style-type: none"> • Add separate plug-ins for virtual instruments, synthesizers, and samplers <p data-bbox="1541 867 1724 899"><u>Virtual Studios</u></p> <ul data-bbox="1478 911 1818 967" style="list-style-type: none"> • Create music with virtual studio environments <p data-bbox="1499 1013 1766 1045"><u>Sound Programming</u></p> <ul data-bbox="1499 1057 1818 1154" style="list-style-type: none"> • Create sounds with graphics and command-line interfaces
Exemplar Software	Winamp, Music Match iTunes, Media Jukebox Audion, WWP QuickTime, RealOne Audacity PeakLE, SparkLE Sound Forge, WaveLab	Audition, Deck, ProTools Samplitude Fxpansion, Ina-GRM Tools Restoration Bundle, Altiverb ACID, Live, SoundTracks, Spark XL, Toast/Jam SurCode	PowerTracks Pro HomeStudio Logic Education Metro VeloMaster Lite	Digital Performer, Sonar Logic, Cubase XL Battery, Attack Pluggo, Tassman, EXP24, Reaktor, Halion Reason, Storm Max/MSP, Csound, SuperColider

