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for stand-alone outboard converters. Figure 10.1: Sonnet Mastered for iTunes (Source: Apple Inc.) Mastered for iTunes (or MP3, for short) doesn't necessarily mean lathe mixer, proder, or mastering facility does anything special to the master except to check what it will sound like before it's submitted to iTunes, and perhaps check it later again before it's posted in the iTunes Store. I think a lot of people have heard about the effort we've gone through to make our room as acoustically perfect as possible. If what you're hearing doesn't meet that ideal, you try to manipulate the sound in such a way as to make it as exciting and effective a musical experience as you've ever had with that kind of music. Delivering The Master To The Replicator When sending a master to a CD replicator, most now prefer the file be sent via FTP. Maybe you should go somewhere where they're glued into what you're doing." For the most part, I'm fortunate to usually work on things that sound pretty good. The International Standard Recording Code is used to uniquely identifying sound recordings and music video recordings. Any time the compression ratio is set to 10:1 or more, the result is considered limiting. Watch your fades and trims. Naturally, today it's much easier, because the master is a file in a workstation where the EQ and compression have already been added. Using The Compressor In Mastering For mastering, the compression ratio of the mastering compressor is usually set very low, from about 1.5:1 to 3:1, in order to keep the compression fairly gentle-sounding. Notice how the ridges contain binary information © 2017 Bobby Owsinski Mechanically, the CD is less vulnerable than the record, but that doesn't mean that it can be treated carelessly. The idea is to encode the smallest file with the highest quality, which is, of course, the tricky part. Let's say that your monitors have a bit of a dip at 2kHz (not uncommon, since that's about the crossover point of most two-way nearfield monitors). Are you doing multiple masters? K-12 shows 12dB headroom and is intended for broadcast. I think I can get 90 percent of the way there sometimes in a couple of minutes, and just keep hanging with it and keep fine-tuning it from there. Currently, a stampier may last for as little as 2,000 records before it must be replaced (although that figure is normally higher). In this case, each compressor would be different and would use slightly different compression ratios in order to exert the same kind of control over the signal while increasing the level (see Figure 6.2). I have only one digital equalizer and a digital limiter for making loud CDs. I have three different analog compressors, including one I just got from Dangerous Music that complements my Pendulum OCL-2 very well. The vinyl used to make records actually comes in a granulated form called Vinylite. Before being pressed, it is heated into the form of modeling clay and colored with pigment. Eliminating Intro Noise And Count-Offs Leaving noise or count-offs, such as drumstick clicks on a song intro, is a sure sign of a demo recording, and is something that usually no one wants to listen to. While not a very glamorous portion of the business, it's one of the most important nonetheless, because a problem there can negate a perfect job done beforehand. I'll also send the CD PQ information along so the cutter knows where the breaks are between the songs. If one speaker is closer to a side wall than the other, you'll get a totally different frequency response between the two because the reflections from the wall are different than on the other side. What has changed from the last time we talked for the book? Some of my clients really insist on having the maximum level possible, though. Figure 5.10: The T-Rack3 digital RMS meter (on the bottom) © 2017 Bobby Owsinski (Source: IK Multimedia) The frequency response of an RMS meter is flat, which can give you a false sense of level if the song has a lot of low end. Ideally, no more than 2 to 3dB of limiting should take place in order to keep the limiting less audible, although this amount might be even less for a vinyl master. The point beyond 0 on a digital processor where the red over indicator lights, resulting in a digital overload. What kind of masters are you delivering? The limitation of how loud a "record" (we'll use this term generically) can actually sound is determined by the delivery medium to the consumer. He's also an expert in catalog restoration, having worked on releases by Smithsonian Folkways Recordings and the Grateful Dead, among many others. And maybe best of all, it's now possible to totally prep just about any kind of audio for any kind of distribution (which is what mastering really is) at home in your personal studio. A TV mix contains the entire mix minus the lead vocal and is used when the artist appears on television. MP3. Processing within the digital domain, usually by dedicated microprocessors. This control is used in the DAW session as well as all of the original source files. A Neumann lathe setup in 1972 was \$75,000, and that was just the cutting system; you still needed a room and a console, so you had to have a big budget, and there were only a few people doing it as a result. comb filter. A slow Attack setting might also allow a transient to overload the next piece of equipment in the chain. Channels R to W were intended for digital graphics known as CD+G, but they also contain CD-Text data identifying the album, song, and artist. Bobby Owsinski Biography The Mixing Engineer's Handbook 4th Edition (BOMG Publishing) The Recording Engineer's Handbook 4th Edition (BOMG Publishing) The Mastering Engineer's Handbook 2nd Edition (BOMG Publishing) The Drum Recording Handbook 2nd Edition (with Dennis Moody) (Hal Leonard Publishing) How To Make Your Band Sound Great (Hal Leonard Publishing) The Studio Musician's Handbook (with Paul ILL) (Hal Leonard Publishing) Music 4.1 - A Survival Guide To Making Music In The Internet Age 4th Edition (Hal Leonard Publishing) The Music Producer's Handbook 2nd Edition (Hal Leonard Publishing) The Musician's Video Handbook (Hal Leonard Publishing) Mixing And Mastering With T-Racks: The Official Guide (Course Technology PTR) The Touring Musician's Handbook (ISBN 978-1423492368 Hal Leonard) The Ultimate Guitar Tone Handbook (with Rich Tozzoli) (Alfred Music Publishing) The Studio Builder's Handbook (with Dennis Moody) (Alfred Music Publishing) Abbey Road To Ziggy Stardust (with Ken Scott) (Alfred Music Publishing) The Audio Mixing Bootcamp (Alfred Music Publishing) Audio Recording Basic Training (Alfred Music Publishing) The Music 3.0 Guide To Social Media. When it's late at night and your kids, significant other, or neighbors are in the next room, separated only by paper-thin walls, you have no choice but to try to listen on headphones. Your one experience at having it sound so incredibly different makes you then realize just how intricate mastering can be and just how much you could add to or subtract from a final mix. This is a trap that people with home studios fall into - they don't listen loudly enough, at least for a short period of time. This usually results in some type of distortion, which can vary from soft and barely noticeable to horribly crunchy-sounding. In fact, I get a lot of mixes where the peak level might be -6 to -10 or so, and that's a really great treat. In fact, anyone who's done mastering for any length of time has most likely come into the studio on a Saturday and done their system to find out what's the best way to get it loud. I used to have a lathe and would cut the lacquers, but I don't right now. Short for reference record, a ref is a single-sided vinyl check disc, sometimes called an acetate. These controls determine how fast or slow the compressor reacts to the beginning (attack) and end (release) of the signal envelope. Figure 5.11: A K-System meter © 2017 Bobby Owsinski The K-20 shows 20dB of headroom above 0dB and is intended for theatrical mixes. From there you can determine whether you're better served by doing it yourself or using a pro. All equipment in the digital signal chain, including A/D and D/A converters, plugins, and workstations, must now be able to process at least 96/24 as well. Have your songs timed out. Toward the bottom center of the slide, the outside wall of the loud low frequency has touched the adjacent wall of the previous revolution, but the wall has not broken down, and a safe margin still exists so it won't cause a slip. Is there a certain type of music that you find easier or more difficult to work on? I concentrate on not screwing up the really fast high-frequency transients since a lot of the energy from the song is there. Let's take a look at how we can tweak those online audio files to get the most out of them. I've done things like overdubed vocals in the mastering room before, and guitar solos, too. Q Channel contains the timecode (minutes, seconds, and frames), the table of contents or TOC (in the lead-in), the track type, and the catalog number. Glossary 0dB FS (Full Scale). If you want to obtain a manufacturer's number from this organization so you can issue your own barcodes, it will cost \$750 for the registration fee, but you can get a single UPC from CD Baby for \$20 if you're already a member, or from Nationwide Barcode (nationwidebarcode.com) for \$7.50. On a DAW, it's a constant waveform that fills up the DAW region. Leave a little room and perfect it in mastering, where you will probably hear things better. It's not that we're going for the biggest or the most powerful sound, we're going for neutral because we really want to hear how one tune compares to the other in an album. For instance, if the compression ratio is 4:1 (four to one), for every 4dB of level that goes into the compressor, only 1dB will come out once the signal reaches the threshold level (the point at which the compressor begins to work). If your song is ever played on AM radio, it's in mono on 99 percent of the stations. With analog, depending on how things are calibrated and how much headroom your equipment has, you can operate it in such a way where the analog signal is much louder and clearer. Quiet passages that are too loud and noisy are usually a giveaway that you are seriously over-compressing. I think that for me with digital limiters you basically have a glass of water that's already full once it's hitting zero, and then you're boosting the level up and then it's just overflowing. Today it still requires some expertise to make a great-sounding streaming or download file, but the margin for error is a lot larger, thanks to increased bandwidth and the resulting file sizes that go with them. At the listening position and while listening to one monitor only, use an SPL meter (just about any of them will do to get you in the ballpark, even an iPhone app) and adjust the level of the monitor until it reads 85dB. It consists of a mirror-smooth substrate of aluminum coated with cellulose nitrate (a distant cousin to nitroglycerine) along with some resins and pigments to keep it soft and help with visual inspection (see Figure 8.16). Figure 6.4: A typical digital limiter's parameter controls © 2017 Bobby Owsinski (Source: Universal Audio) Most digital limiters have only a Release control, since the Attack control is no longer needed because it's superseded by the look-ahead function. The consensus seems to be that LAME produces the highest-quality MP3 files for average bit rates of 128kb/s and higher, although the differences between other encoders are minimal. In addition to these common fields, other data can be included, such as ISRC codes, web addresses, composer, conductor, and orchestra. Again, this is just for stereo. —Bernie Grundman The Acoustic Environment Having the finest reproduction equipment is all for naught unless the acoustic environment in which they're placed is optimized. Using the aClip Tool The aClip command-line utility can be used to check any audio file for clipping. Figure 7.7: A typical UPC code © 2017 Bobby Owsinski While an ISRC refers to a single track, the UPC code is for the entire album, and each unique physical product that is put on a store shelf has this unique code. If there's a polarity switch on the sub, try both positions and see which one has the most bass or sounds the smoothest in the crossover area. High-quality audio will be damaged much less during encoding than low-quality source audio. The Daft Punk record (Random Access Memories) is not heavily squished either, compared to other electronic records. Thanks to the latest generation of digital limiters, louder levels are easier to achieve than ever because of more efficient peak control. An identical signal on both channels results in a 180-degree vertical line representing a central mono signal (see Figure 5.15), while a true stereo signal will give you a more or less random figure that's always moving (see Figure 5.16). I used to be principle trumpet player in the Utica, New York Symphony Orchestra, so I always put myself in the artist's shoes and ask myself, "What if this were my record? You'll keep yourself out of trouble that way. After 18 years in DC, it was time to make a change. If you select the Highest setting from the Quality pop-up menu for VBR, iTunes encodes up to the maximum bit rate of 320 kbps in sections of songs where the sound is complex enough to require a high bit rate. If you have an analog tape, all that rewinding is a much different process and a lot more time-consuming. Sometimes a better solution to the problem is parallel processing. I just tickle them, because I look at it like it's all cumulative, especially when adding EQ. I would say, "Look, before you do anything, come in with your first mix on the house, and find out if you're in trouble. Finally, the disc has a transparent carrier through which the actual reading of the disc takes place. It's a big extra expense for indie artists, because they have to go through CD Baby, which charges extra for that. You trade some top end for better quality in the rest of the spectrum. Isn't it a lot harder to get the same hot level in the analog domain that you can get with digital? This is a file format that Digidesign (now Avid) introduced in their early days for their Sound Designer 2 application, which was the precursor to the now widely used Pro Tools. There are only two DAWs being made today, Merging Technologies' Pyramix and the Sonoma (which was developed by Sony). A CD-R can get smudged and scratched, but the DDV will stay in its baggie until it hits the plant. The UPC stands for Universal Product Code, which is the number represented by the barcode on the back of the packaging for just about any item you buy in a store these days (see Figure 7.7). The idea is to get them all to sound the same. What they bring to the table is the cross-section of their experience and their ability to say, "No, you really don't want to do that." When you use your compression technique, are you using the typical radio attack and release settings? With most pop, rock, R&B, and hip-hop, a DR of 8 might be quite comfortable, but that just won't work for jazz, folk, country, or classical music, which sounds a lot better with a DR of at least 12 and probably a lot more. It then goes through a real high-end D/A converter and through the whole analog chain, which has automation elements built in, and then it gets recorded again into the digital domain after a real high-end D/A converter. What's odd about competitive levels is if you go to AES and listen to the speaker demos, they'll always use really dynamic material and people will always comment on how great it sounds. Courtesy of Clete Baker Figure 8.7: This figure shows variable pitch in action on program audio. Since the vast majority of processing is done in the DAW these days, all that's required is the monitor section to control the volume level of the monitors, switch between different monitors, and control input sources. It's their vision, so what can I bring to it to make it better? Most retailers only stock products with barcodes so they can easily keep track of them in their inventory, and SoundScan doesn't know you exist until you have a barcode to identify your CD. SoundScan. To solve this problem, the mastering engineer can increase groove pitch and/or depth, lower the overall level at which the record is cut, reduce the low-frequency information, sum the low frequencies at a higher crossover point, or add external processing, such as a peak limiter. They'll say, "This mix is too bright," and then you'll dull it up like half a dB and they say, "Oh, it doesn't have any air anymore." It's that kind of thing. Another good MP3 encoder is the one found within iTunes. A mix that has its major elements broken out separately for individual adjustment, such as a later time. To illustrate what lossy compression does, think of the inner tube for a bicycle tire that's filled up with air. Somebody today could say to me, "Did you'll stay in his baggie until it hits the plant. The UPC stands for Universal Product Code, which is the number represented by the barcode on the back of the packaging for just about any item you buy in a store these days (see Figure 7.7). The idea is to get them all to sound the same. What they bring to the table is the cross-section of their experience and their ability to say, "No, you really don't want to do that." When you use your compression technique, are you using the typical radio attack and release settings? With most pop, rock, R&B, and hip-hop, a DR of 8 might be quite comfortable, but that just won't work for jazz, folk, country, or classical music, which sounds a lot better with a DR of at least 12 and probably a lot more. 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