

21M.380 · MUSIC AND TECHNOLOGY
RECORDING TECHNIQUES & AUDIO PRODUCTION

READING ASSIGNMENT 8 (RD08)
DYNAMICS & COMPRESSION

DUE: WEDNESDAY, OCTOBER 12, 2016, 9:30AM
SUBMIT TO: MIT LEARNING MODULES ▶ ASSIGNMENTS
0.5% OF TOTAL GRADE

1 Materials to study

Jeffs, Rick et al. (2005). *Dynamics Processors—Technology & Application Tips*. URL: http://www.rane.com/pdf/ranenotes/Dynamics_Processors.pdf (visited on 09/02/2014). RaneNote 155.

2 Questions to respond to

1. Which four basic archetypes of dynamic range processors are there (see p. 19)?
2. What does a (dynamic range) compressor do, and how does this use of the term *compression* differ from the concept of data compression in audio file formats such as MP3?
3. Provide a list of real-world applications of dynamics processors. Bullet-point keywords are enough, but I want you to stick to two rules:
 - (a) Gather information from the *entire* article as you read through it.
 - (b) Don't just blindly copy and paste; include a keyword only once you have at least a partial understanding of how the respective application works. (I'd like to get a better sense of which applications you've actually understood, and the mere number of keywords you have provided will not count towards your grade.)
4. What are the most important parameters that control the *side chain* of a dynamics processor? List them and provide a one-sentence description for each.

3 Guidelines

- Your answers need not be very extensive (a short paragraph per question is enough), but they should demonstrate that you have actually read the article and understood its main points.
- Be concise and pay attention to form, grammar, and spelling.

MIT OpenCourseWare
<https://ocw.mit.edu/>

21M.380 Music and Technology: Recording Techniques and Audio Production
Fall 2016

For information about citing these materials or our Terms of Use, visit: <https://ocw.mit.edu/terms>.