# 99% Perspiration

Module 3 of Music: Under the Hood

John Hooker Carnegie Mellon University

> Osher Course September 2018

> > 1

### Outline

- · Part writing
- Part writing Bach
- Part writing Beethoven

2

# Part Writing

- Music is 1% inspiration...
  - ...and 99% perspiration
- Example: Part-writing
  - A seemingly simple chore.
  - Add harmony parts to a melody.
  - It's a complex combinatorial problem.
  - The "harmony" and the "melody" ideally become one.
    - Neither makes sense without the other.

3

# Part Writing: Bach

- · Chorale harmonizations
  - Governed by traditional rules since 18th century
- The chorale tune itself is of little interest.
  - The "harmony" brings it alive.
- Consider this famous chorale...



4

# Part Writing: Bach Audio file – Melody Audio file – Harmony Passion Chorale From St Matthew Passion (1727) SA O Haupt voil Blist und Wun-den, voil Schnerz und vol. ler Holm O Haupt zu Spott ge bun den mit ein er Dor nen kron! TB















































