# Topics for today:

* Quiz on reading and lecture material.
* Harmonics and complicated periodic vibrations
  + Periodic waveforms have *harmonic* spectra: signal energy is discrete at frequencies that are integer multiples of the fundamental frequency, known as *harmonics*, *overtones*, or *harmonic partials*.
  + The distribution of energy among the harmonics gives rise to audible changes in the perceived sound quality, or *timbre*. For example, different sung vowels at the same pitch are recognizable as “ahh,” “ohhh,” “eeee”, and so forth.
* Audible examples of various effects; experiment to measure the speed of sound, etc.

# Topics for the next lecture:

* Reading assignment: Chapters 6 and 8 from the Strong textbook.
* Wave interference; sound level (decibel).