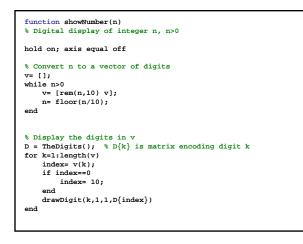
- Previous Lecture:
 Review matrix, cell array, structure array
- Today's Lecture:
 - Working with sound files
 - Review vector, graphics, struct array, cell array
- Announcements:
 - P5 due Friday at I pm
 - Prelim 3 Tuesday 7:30pm
 - Sound (today's topic) will NOT be on prelim 3
 - Review session Sunday 1:30-3pm, location TBA

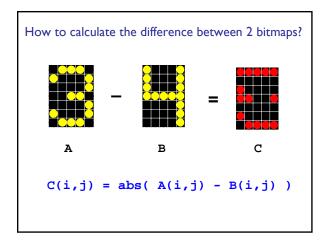
Digital display of a whole number

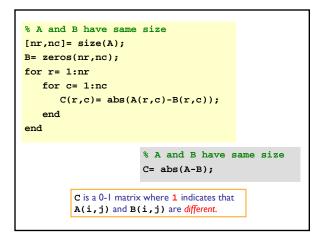
Example: showNumber(2010)

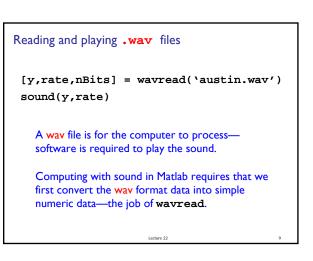


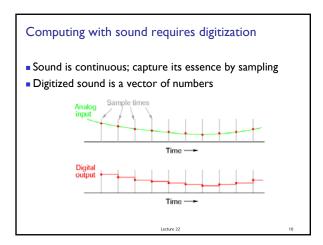
- Need to convert the number to a vector of digits
 2010 → [2 0 1 0]
- Then display the digits in the vector side-by-side

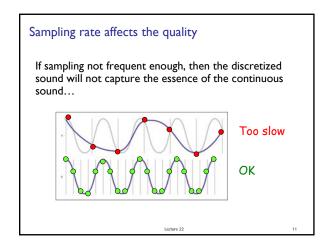












| Sampling Rate | | |
|--|--|----|
| Given human perception, 20000 samples/second is pretty good (20000Hz or 20kHz) | | |
| 8,000 Hz | required for speech over the telephone | |
| 44,100 Hz | required for audio CD | |
| 192,400 Hz | required for HD-DVD audio tracks | |
| | Lecture 22 | 12 |

