- Previous Lecture:
 Recursion
- Today's Lecture:
 - Working with sound files
 - Review vector, graphics, struct array, cell array
- Announcements:
 - P5 due Saturday 4/14 at 11pm
 - Review session Sunday 2:30-4pm, location TBA
 - Prelim 3 Tuesday 4/17 at 7:30pm







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 24 6















```
Possible solution
playList = {'austin',...
    'sp_beam',...
    'sp_oz6'};
for k=1:length(playList)
    [y,rate] = wavread(playList{k});
    sound(y,rate)
end
```

Lecture 24

Store the data from wav files as a struct array for play back later function SA = wavSegments(wnames) % Build a struct array SA such that

% SA(k).data stores the data of wnames{k} % SA(k).rate stores the sampling rate of

```
% SA(k).rate stores the sampling rate of
% wav file wnames{k}
```

```
for k= 1:length(wnames)
  [y,rate] = wavread(wnames{k});
  SA(k)= struct('data', y, 'rate', rate);
end
```

Lecture 24







