

DorranInChurch_code

Open with 2021a >> Editor >> RUN >> Talk for 10 Seconds

```
% DorranInChurch_2021_TLHdemo.m
clc, clear all, clf
church = audioread('church.wav')
audioinfo('church.wav')
% NumChannels:1 SampleRate:16000;TotalSamples:8206
% Duration: 0.5129 sec
Fschurch= 16000; % Samples/sec
% Plot
figure(1), plot(church), title('Impulse Response of
Church')
sound(church, 16000)
%
churchlen= length(church); % churchlen = 8206 points
ts=1/Fschurch % ts = 6.2500e-05 sec
t_duration = length(church)/Fschurch % t_duration
=0.5129
disp('Start speaking for 10 seconds.')
record_voice = audiorecorder(16000, 16, 1);
%disp('Start speaking for 10 seconds.')
recordblocking(record_voice,10);
disp('End of Recording.');
```

pause(2)

```
p = play(record_voice); % listen to complete
recording
pause(10)
mySpeech = getaudiodata(record_voice, 'int16'); % get
data as int16 array
%
disp('Speaking in Church')
pause(2)
output=conv(mySpeech,church);
soundsc(output, 16000);
```