

```
1 % plots the difference between a given song and the version of the song
2 % scaled by fac
3 % INPUT:
4 % vec: a vector of notes to be interpreted as a song
5 % fac: some positive real number to scale the length of the song by
6 % fac should be a power of 2 for best musical results
7 function y = plot_diff(vec,fac)
8     n = length(vec);
9     t1 = (1:fac:n*fac);
10    t2 = (1:fac*n);
11
12    plot(t1,scale_song(vec,1),'x', t2, scale_song(vec,fac),'o');
```