KOCAELİ ÜNİVERSİTESİ BİLGİSAYAR MÜHENDİSLİĞİ BÖLÜMÜ

İŞARET VE SİSTEMLER MATLAB MÜZİK PROJESİ

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function IstiklalMarsi()

fs = 44100;

w1 = rest(4,fs);% 1.0 sec

w075 =rest(6,fs);% 0.75 sec

w05 = rest(8,fs);% 0.5 sec

w025 = rest(16,fs);% 0.25 sec

w0125 = rest(32,fs);% 0.125 sec

%intro

ist1=[si(5,0) si(30,0) si(30,0) si(30,0) w05 si(30,0) si(30,0) si(30,0) w0125 si(30,0) w0125 si(30,0) w0125 si(30,0) w0125 si(30,0) w05 ];

% Korkma sönmez bu şafak larda yüzen al sancak

ist2=[do(6,-1) mi(6,0) fa(6,1) sol(6,0) re(8,1) fa(16,1) mi(3,0) w05 mi(20,0) re(20,1) mi(20,0) la(6,0) si(6,0) ido(6,0) sol(8,1) si(16,0) la(3,0) w05];

% Sönmeden yurdumun üstünde tüten en son ocak o be-

ist3=[si(20,0) la(20,1) si(20,0) fa(6.5,1) fa(4,1) la(20,0) sol(8,0) re(20,1) mi(8,0) fa(20,1) sol(8,0) la(20,0) si(8,0) do(20,12) re(8,12) mi(20,12) re(8,12) w0125];

% -nim milletimin yıldızıdır parlayacak o benim

ist4=[re(20,0) do(20,1) re(20,0) si(6,0) la(6,0) sol(3,0) w05 do(20,-1) do(20,-2) do(20,-1) fa(6,1) do(6,-1) si(8,0) la(20,0) sol(20,0) fa(20,1) sol(20,0) mi(8,0) w0125];

% -dir o benim milletimindir ancak.

ist5=[mi(4,12) re(20,12) do(8,12) si(20,0) la(8,0) sol(20,0) fa(8,1) mi(20,0) si(6,0) si(6,-12) mi(4,0) w05];

% Çatma kurban olayım çehreni ey nazlı hilal

ist6=[do(6,-1) mi(6,0) fa(6,1) sol(6,0) re(8,1) fa(16,1) mi(3,0) w075 mi(6,0) la(6,0) si(6,0) ido(6,0) si(20,0) sol(8,1) si(16,0) la(3,0) w05];

% ara sesler

ist2\_1=[mi(20,0) mi(20,0) mi(20,0) mi(20,0)];

ist2\_2=[la(20,0) la(20,0) la(20,0) la(20,0)];

ist4\_1=[sol(20,0) sol(20,0) sol(20,0) sol(20,0)];

song = [ist1 ist2 ist3 ist4 ist5 w05 ist6 ist3 ist4 ist5];

%ara sesler

song1 = [ist2\_1];

song2 = [ist2\_2];

song3 = [ist4\_1];

sound(song,fs,24);

pause(7.72);

sound(song1,fs,24);

pause(5.16);

sound(song2,fs,24);

pause(10.43);

sound(song3,fs,24);

pause(15.70);

sound(song1,fs,24);

pause(5.44);

sound(song2,fs,24);

pause(10.33);

sound(song3,fs,24);

%audiowrite('star.wav',song,fs,'BitsPerSample',32);

end

function wave = do(x,y)

wave =key(52+y,x,44100);

end

function wave = re(x,y)

wave =key(54+y,x,44100);

end

function wave = mi(x,y)

wave =key(56+y,x,44100);

end

function wave = fa(x,y)

wave =key(57+y,x,44100);

end

function wave = sol(x,y)

wave =key(59+y,x,44100);

end

function wave = la(x,y)

wave =key(61+y,x,44100);

end

function wave = si(x,y)

wave =key(63+y,x,44100);

end

function wave = ido(x,y)

wave =key(64+y,x,44100);

end

function wave = key(p, n, fs)

t = 0:1/fs:4/n;

idx = 440\*2^((p-49)/12);

mid = (t(1)+t(end))/2;

tri = -(abs(t-mid)-mid);

tri = tri./max(tri);

wave=(sin(2\*pi\*idx\*t)).\*tri;

end

function wave = rest(n,fs)

t = 0:1/fs:4/n;

tt = 4/n:-1/fs:0;

wave= 0\*sin(2\*pi\*t).\*exp(tt);

end

**KAYNAK:**

https://www.mathworks.com/matlabcentral/fileexchange/65665-make-a-song