

How to plot a seismic trace with MATLAB ?

The M-file:

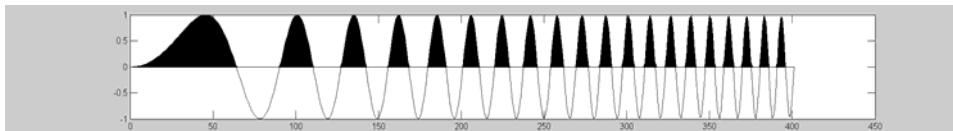
```
% Plot a half-patched curve (seismic trace)
%
% call form: seisplot(y)
%
% By Prof Zou Mou Yan in 1986.

function seisplot(x1)
n=length(x1); z1=zeros(1,n);
% x1=x1/max(abs(x1)); % Optional
yt=0; % Base line = 0
z1(1:n)=x1+yt;
for i=1:n, w1(i)=yt; if z1(i) > yt, w1(i)=z1(i); end; end;
w1(1)=yt; w1(n)=yt; x=1:n;
plot(x,w1,'-k'); patch(x,w1,'k'); hold; plot(x,z1,'-k'); hold off;
```

Usage example:

```
t=0:0.005:2; x=sin(2*pi*5*t.^2); seisplot(x)
```

Display result:



You can write your application M-file for multiple seismic traces by assign a suitable equidistant base line level for each trace.