

```
C:\source\spikes\hh.m
File Edit View Test Debug Breakpoints Web Window Help
[Icons]
1 %integration of Hodgkin-Huxley equations
2 clear; clf;
3
4 % maximal conductances (in units of mS/cm^2); l=K,
5 g(1)=36; g(2)=120; g(3)=0.3;
6
7 % battery voltage ( in mV); l=n, 2=m, 3=h
8 E(1)=-12; E(2)=115; E(3)=10.613;
9
10 % Initialization of some variables
11 I_ext=0; V=-10; x=zeros(1,3); x(3)=1; t_rec=0;
12
13 %Time step for integration
14 dt=0.01;
15
16 % Integration with euler-forward scheme
17 t=0:dt:50;
18 [V,x]=hh(t);
19 plot(t,V);
20 title('Hodgkin-Huxley spikes');
21 axis([0 50 -20 120]);
22
```

