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3.2

```
clc;clear;close all
```

Fill in the values

```
fs = 2000;
Amp = 1;
T = 1;
tStop = 5;

tt=0:(1/fs):tStop;
xx=Amp*abs(sin(2*pi*tt/T));

Tsect = 5*T;
Lsect = Tsect*fs;

figure
plot(tt,xx);
title('Full-wave Rectified Sine'); xlabel('t [sec]')

figure
plotspec( xx+j*1e-12, fs, Lsect ), colorbar, grid on %-- with negative
    frequencies
ylim([-20,20])
% *****Hint: Zoom in on the verticle axis to see the harmonics*****

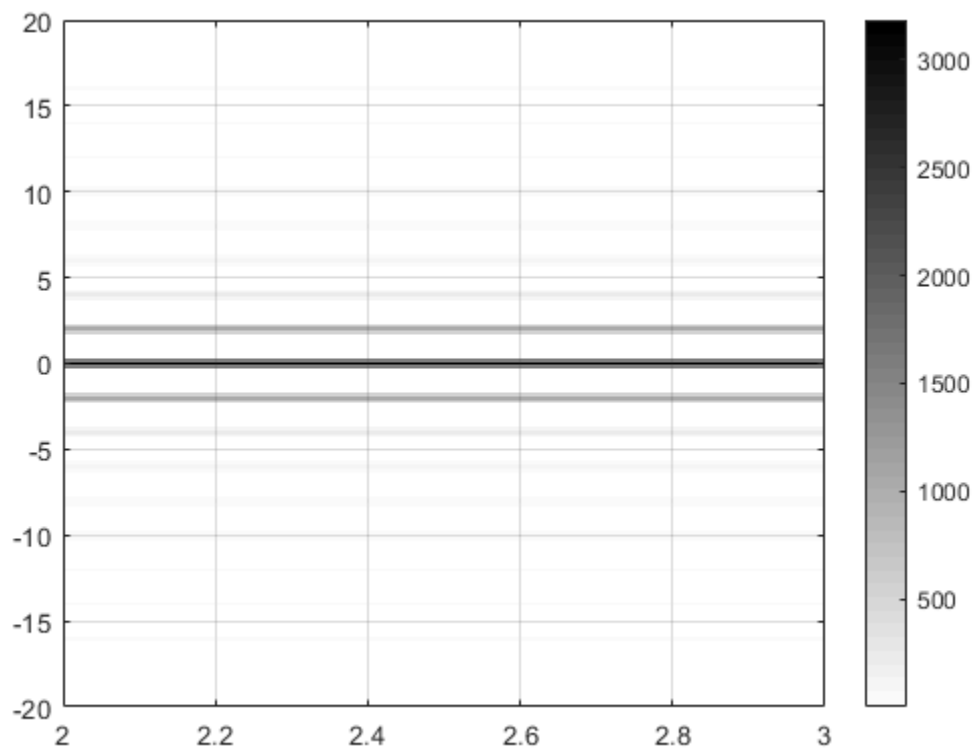
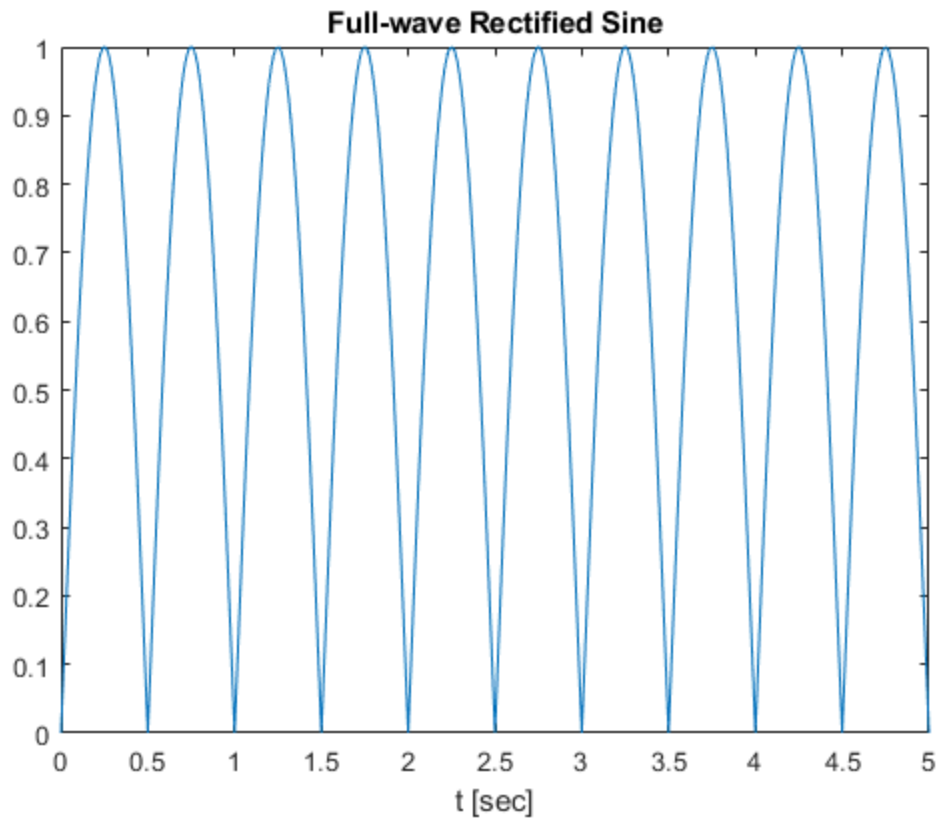
% Fundamental freq = 2 Hz

ans =

    Image with properties:

        CData: [10000x1 double]
    CDataMapping: 'scaled'

    Use GET to show all properties
```

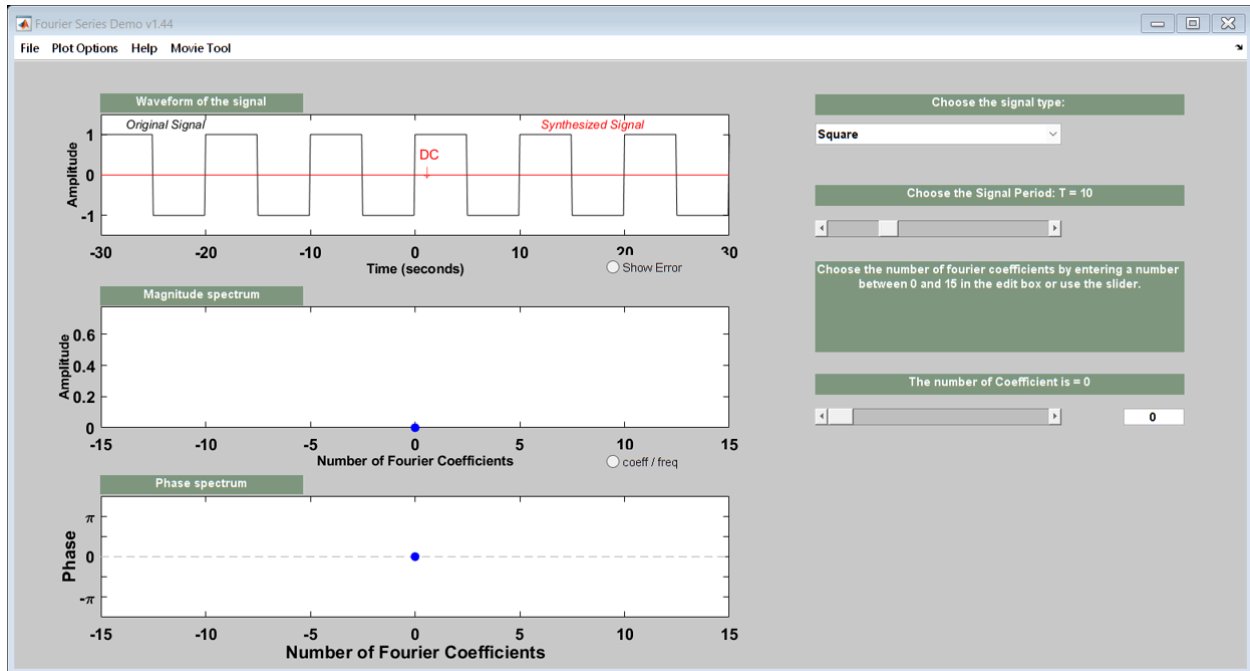


GUI

```
fseriesdemo %<==Uncomment to use the GUI
```

```
% a1=0.212
```

```
% a5=0.006
```



Published with MATLAB® R2022a