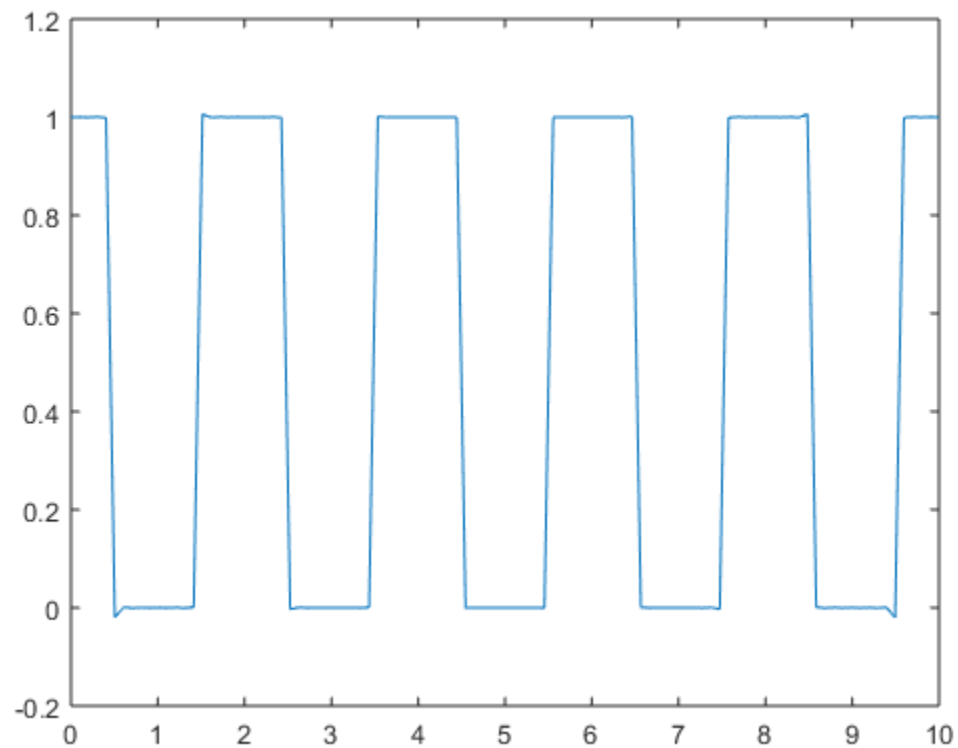

Fourier Series

1000 harmonics

```
w = pi;  
a0 = 1/2;  
f = 0;  
t = linspace(0,10);  
  
for n = 1:1:1000  
    an = (sin(n*pi/2))/(n*pi/2);  
    bn = 0;  
    f = f + an*cos(n*pi*t);  
end  
  
f = f + a0;  
  
plot(t,f)
```



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