

Make your voice heard. [Take the 2019 Developer Survey now](#)

Home

PUBLIC

 Stack Overflow

Tags

Users

Jobs

Teams

Q&A for work

[Learn More](#)

How do I run a high pass or low pass filter on data points in R?

[Ask Question](#)



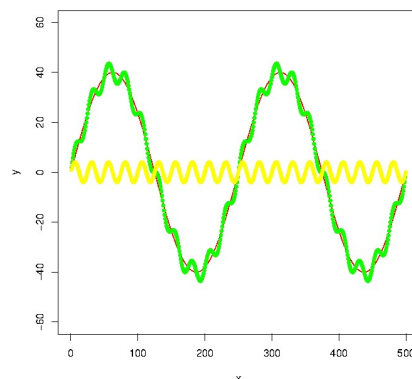
36

I am a beginner in [R](#) and I have tried to find information about the following without finding anything.



19

The green graph in the picture is composed by the red and yellow graphs. But let's say that I only have the data points of something like the green graph. How do I extract the low/high frequencies (i.e. approximately the red/yellow graphs) using a [low pass/high pass filter](#)?



Update: The graph was generated with

```
number_of_cycles = 2
max_y = 40

x = 1:500
a = number_of_cycles * 2*pi/length(x)

y = max_y * sin(x*a)
noise1 = max_y * 1/10 * sin(x*a*10)

plot(x, y, type="l", col="red", ylim=range(-1.5*max_y,1.5*max_y,5))
points(x, y + noise1, col="green", nch=20)
```

By using our site, you acknowledge that you have read and understand our [Cookie Policy](#), [Privacy Policy](#), and our [Terms of Service](#).