MATLAB programming course for beginners, supported by Wagatsuma Lab@Kyutech

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Specifications and requirements

1. @Time: 2020-4-20

2. @Author: Hiroaki Wagatsuma

3. @Site: https://github.com/hirowgit/1_matlab_basic_course

4. @IDE: MATLAB R2018a

5. @File: lec1_step65.m

Main program

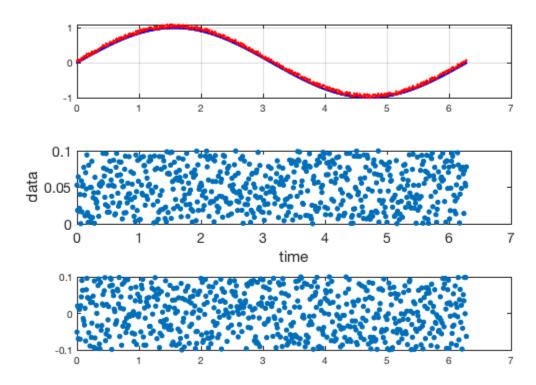
```
dt=0.01; noise_level=0.1;
t=0:dt:2*pi;
dataUpper=noise_level.*rand(1,length(t));
dataUpDown=noise_level.*(rand(1,length(t)).*2-1);
figure(1); clf;
subplot(3,1,1);
```

```
plot(t,sin(t),'b.-'), hold on;

plot(t,dataUpper+sin(t),'r.');
grid on;

subplot(3,1,2);
% figure(3); clf;
plot(t,dataUpper,'.','MarkerSize',15);
ylabel('data','FontSize',14);
xlabel('time','FontSize',14);
set(gca,'ylim',[0 noise_level],'FontSize',14,'Color',[1 1 0],'FontName','Helvetica');

subplot(3,1,3);
% figure(3); clf;
plot(t,dataUpDown,'.','MarkerSize',15);
```



Supplementary information to publish

If you want to make a pdf or html file on the code, you can use the code "x_publish_each_codes.m" in the same folder. Please change the file name as " this_file_tag='lec*_step*' " (* will be replaced to the number of the target file).

The code "x_publish_all_codes.m" works for such a publication applying to all codes in the same folder (Note: "x_publish_all_codes_sub.m" should be located in the same folder).

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