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

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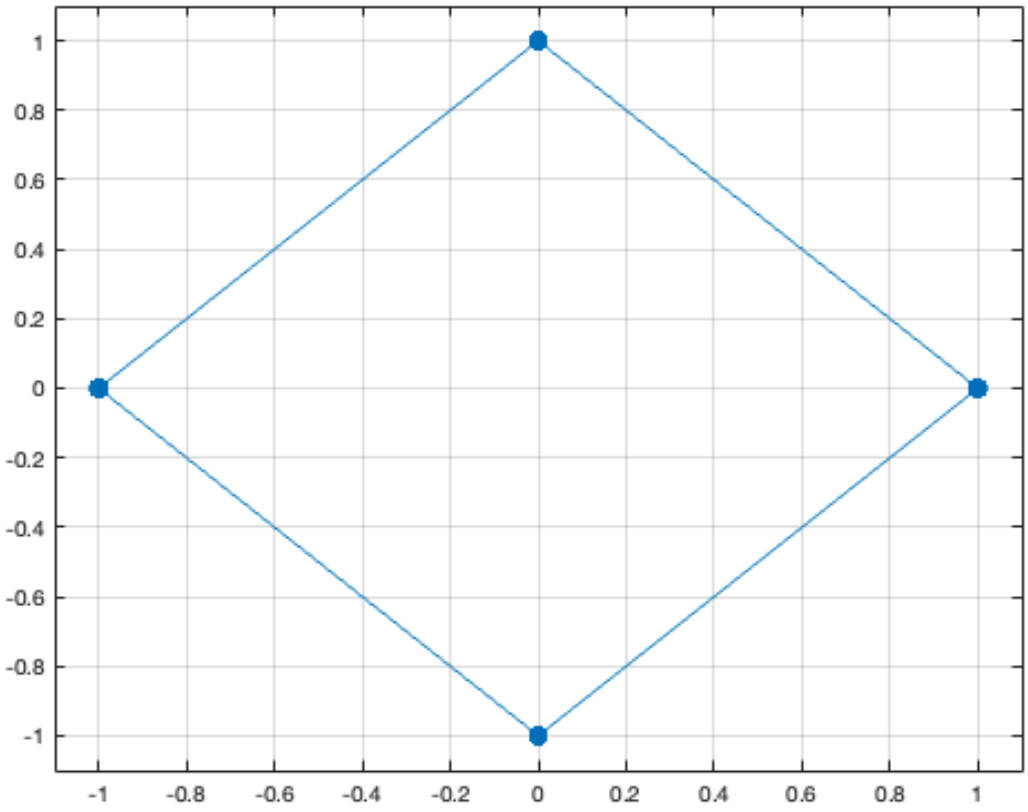
Specifications and requirements

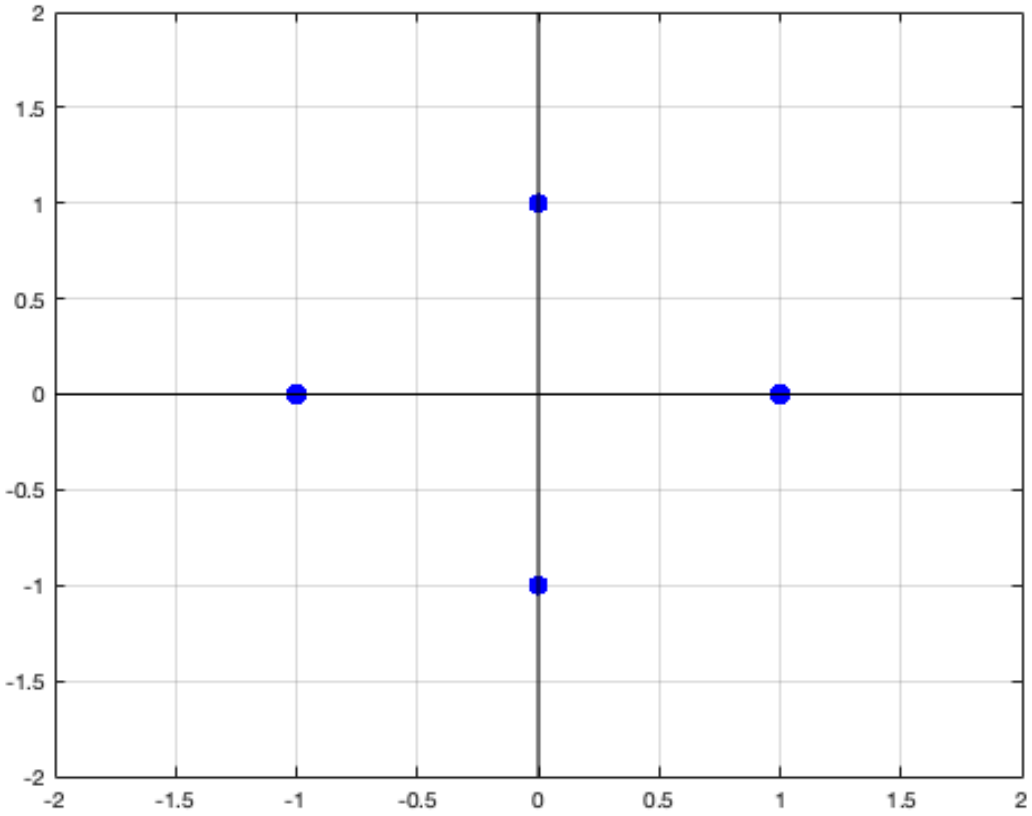
1. @Time : 2022-8-10
2. @Author : Hiroaki Wagatsuma
3. @Site : https://github.com/hirowgit/1A1_matlab_intermediate_course
4. @IDE : MATLAB R2022a
5. @File : lec0_step3.m

Main program

```
wd=4;
% t=0:2*pi/wd:2*pi+2*pi/wd;
t=0:2*pi/wd:2*pi;
x=cos(t);
y=sin(t);
```

```
figure(3); clf;
plot(x,y,'.-','MarkerSize',24);
grid on;
set(gca,'xlim',[-1.1 1.1],'ylim',[-1.1 1.1]);

xyD=[x;y];

Rt=@(th) [cos(th) -sin(th); sin(th) cos(th)];

xyD2=Rt(pi/2)*xyD;

figure(4); clf;
% plot(xyD(1),xyD(2),'b.','MarkerSize',24),hold on;
plot(xyD2(1,:),xyD2(2,:),'b.','MarkerSize',24),hold on;
plot([-2 2],[0 0],'k-');
plot([0 0],[-2 2],'k-');

grid on;
```





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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