Programa principal

Table of Contents

	. 1
DO	
uler	
ràfiques	
rror	

Mètode d'Euler

clear variables; clc;

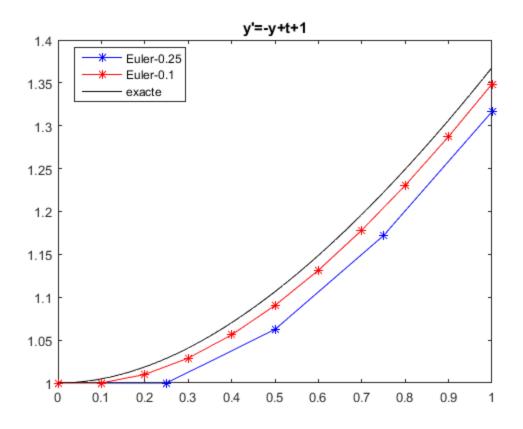
EDO

Euler

```
h=0.25; t1=[a:h:b];
[ yel ] = Euler( f,a,b,h,alpha );
format short g;
disp('
             Euler
                           y(t)')
disp([ye1',g(t1)'])
h=0.1; t2=[a:h:b];
[ ye2 ] = Euler(f,a,b,h,alpha);
        Euler
                     y(t)
                   1.0288
       1.0625
                   1.1065
                   1.2224
       1.1719
       1.3164
                   1.3679
```

Gràfiques

```
plot(t1,ye1,'b*-',t2,ye2,'r*-',texa,yexa,'k'),title('y''=-y+t+1')
legend('Euler-0.25','Euler-0.1','exacte','Location','best')
```



Error

```
yelerror=norm(yel-g(t1))
yelerror=norm(yel-g(t2))

yelerror =
    0.089258
yelerror =
    0.049256
```

Published with MATLAB® R2015b