

# Interpolate Two Data Files

Load the following MATLAB MAT-files:

data1.mat

data2.mat

The file data1.mat contains the variables x1 and y1. The file data2.mat contains the variables x2 and y2. Use cubic splines to interpolate both y1 and y2 to a uniform x-grid. Plot y1+y2 versus x. Your result should look like  $y = \sin x$ .

## Script ?

[Reference Solution](#)

[Save](#)

[Reset](#)

[MATLAB Documentation \(https://www.mathworks.com/help/\)](#)

```
1 load data1; figure(1); plot(x1,y1);
2 load data2; figure(2); plot(x2,y2);
3 xx=linspace(0,2*pi,1000);
4 yy1=interp1(x1, y1, xx, 'spline'); %interpolate y1 to the xx grid using 'spline'
5 yy2=interp1(x2, y2, xx, 'spline'); %interpolate y2 to the xx grid using 'spline'
6 yyadd=yy1+yy2;
7 figure(3); plot(xx,yyadd);
8
```

[Run Script](#) ?

## Assessment: All Tests Passed

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✔ Test addition of y1 and y2

## Output



