

```
function [fitresult, gof] = createFit(x, y)
%CREATEFIT(X,Y)
% Create a fit.
%
% Data for 'newfit' fit:
%     X Input : x
%     Y Output: y
% Output:
%     fitresult : a fit object representing the fit.
%     gof : structure with goodness-of fit info.
%
% See also FIT, CFIT, SFIT.

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%% Fit: 'newfit'.
[xData, yData] = prepareCurveData( x, y );

% Set up fittype and options.
ft = fittype( 'smoothingspline' );

% Fit model to data.
[fitresult, gof] = fit( xData, yData, ft );

% Plot fit with data.
figure( 'Name', 'newfit' );
h = plot( fitresult, xData, yData );
legend( h, 'y vs. x', 'newfit', 'Location', 'NorthEast', 'Interpreter', 'none' );
% Label axes
xlabel( 'x', 'Interpreter', 'none' );
ylabel( 'y', 'Interpreter', 'none' );
grid on
```