

```
% gda00_15
%
% Previous script (global temperature data) is embellished to
% illustrate use of strings. Supports Section I.5.4.

% Reference for data:
% Hansen, J., Mki. Sato, R. Ruedy, K. Lo, D.W. Lea, and M. Medina-Elizade,
% 2006: Global temperature change. Proc. Natl. Acad. Sci., 103, 14288-14293,
% doi:10.1073/pnas.0606291103.

% load
D=load(' ../data/global_temp.txt');
t=D(:,1);
d=D(:,2);
N=length(d);

disp(sprintf('Number of data: %d\n', N));
```

Number of data: 52

```
% display first few lines
disp('first few lines of data');
```

first few lines of data

```
for i=[1:4]
    disp(sprintf('%f %f',t(i),d(i)));
end
```

```
1965.000000 -0.100000
1966.000000 -0.050000
1967.000000 -0.020000
1968.000000 -0.070000
```

```
% plot data
figure(1);
% The following 'set' command specifies the size of the figure. It is
% especially useful for making figures aestically-shaped in Live Scripts.
% the [10,10,500,300] corresponds to [left, bottom, width, height] of the figure
set(gcf, 'pos', [10,10,500,300]);
clf; % clears the figure (just to be sure were starting with a blank figure)
% The following 'set' command specifies the line width of the figure axes.
% The figure does not look good when printed to paper when the line width is too thin
set(gca, 'LineWidth', 3);
% The following 'set' command specifies the font size of characters on the figure axes.
set(gca, 'FontSize', 14);
hold on; % dont let the above properties be changed by the plot() command
axis( [1965, 2010, -0.5, 1.0] );
plot(t,d, 'r-', 'LineWidth', 3);
plot(t,d, 'ko', 'LineWidth', 3);
xlabel('calendar year');
ylabel('temperature anomaly, deg C');
title(sprintf('temperature data from %d to %d', t(1), t(N)));
```

