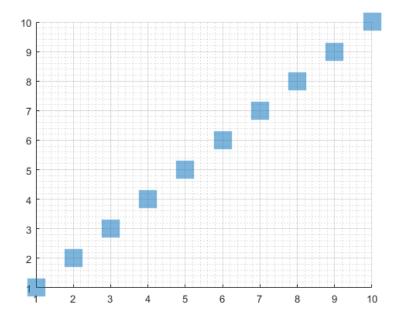
## Matlab Graph Scatter Plot Examples

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## **Scatter Plot Example**

The plot below as square scatter points, each one with think border. Can set transparency of border/edge and inside separately.



```
% 'o' Circle
% '+' Plus sign
% '*' Asterisk
% '.' Point
% 'x' Cross
% 'square' or 's' Square
% 'diamond' or 'd' Diamond
% '^' Upward-pointing triangle
% 'v' Downward-pointing triangle
```

```
% '>' Right-pointing triangle
% '<' Left-pointing triangle
% 'pentagram' or 'p' Five-pointed star (pentagram)
% 'hexagram' or 'h' Six-pointed star (hexagram)
% 'none' No markers</pre>
```

## **Scatter with Edge and Face Color and Transparency**

Here is another way to Set Scatter Edge and Fac Colors and Transparencies.

```
% Generate Data
rng(123);
it_x_n = 10;
it_x_groups_n = 3;
mat_y = rand([it_x_n, it_x_groups_n]);
mat_y = mat_y + sqrt(1:it_x_groups_n);
mat_y = mat_y + log(1:it_x_n)';
ar_x = 1:1:it_x_n;
% Colors
blue = [57 106 177]./255;
red = [204 \ 37 \ 41]./255;
black = [83 81 84]./255;
green = [62\ 150\ 81]./255;
brown = [146 \ 36 \ 40]./255;
purple = [107 76 154]./255;
cl_colors = {blue, red, black, ...
             green, brown, purple};
% Scatter Shapes
cl_scatter_shapes = {'s','x','o','d','p','*'};
% Scatter Sizes
cl scatter sizes = \{100, 100, 50, 50, 50, 50\};
% Legend Keys
cl legend = {'For Borr', 'Inf Borr', 'For+Inf Br'};
% Plot
figure();
hold on;
for it_m = 1:it_x_groups_n
    scatter(ar_x, mat_y(:,it_m), cl_scatter_sizes{it_m}, ...
        'Marker', cl_scatter_shapes{it_m}, ...
        'MarkerEdgeColor', cl_colors{it_m}, 'MarkerFaceAlpha', 0.8, ...
        'MarkerFaceColor', cl_colors{it_m}, 'MarkerEdgeAlpha', 0.8);
    cl_legend{it_m} = cl_legend{it_m};
end
legend(cl legend, 'Location', 'best');
grid on;
grid minor;
```

