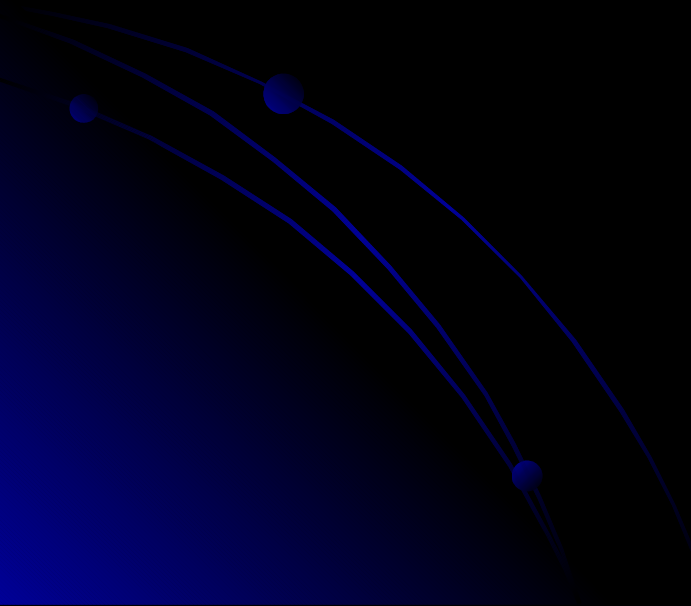


# MDS



```
cities = ...
{'Atl','Chi','Den','Hou','LA','Mia','NYC','SF','Sea','WDC'};
D = [ 0 587 1212 701 1936 604 748 2139 2182 543;
      587 0 920 940 1745 1188 713 1858 1737 597;
      1212 920 0 879 831 1726 1631 949 1021 1494;
      701 940 879 0 1374 968 1420 1645 1891 1220;
      1936 1745 831 1374 0 2339 2451 347 959 2300;
      604 1188 1726 968 2339 0 1092 2594 2734 923;
      748 713 1631 1420 2451 1092 0 2571 2408 205;
      2139 1858 949 1645 347 2594 2571 0 678 2442;
      2182 1737 1021 1891 959 2734 2408 678 0 2329;
      543 597 1494 1220 2300 923 205 2442 2329 0];
Y = cmdscale(D);
```

```
figure;
plot(Y(:,1),Y(:,2),'.')
text(Y(:,1)+25,Y(:,2),cities)
xlabel('Miles')
ylabel('Miles')
```

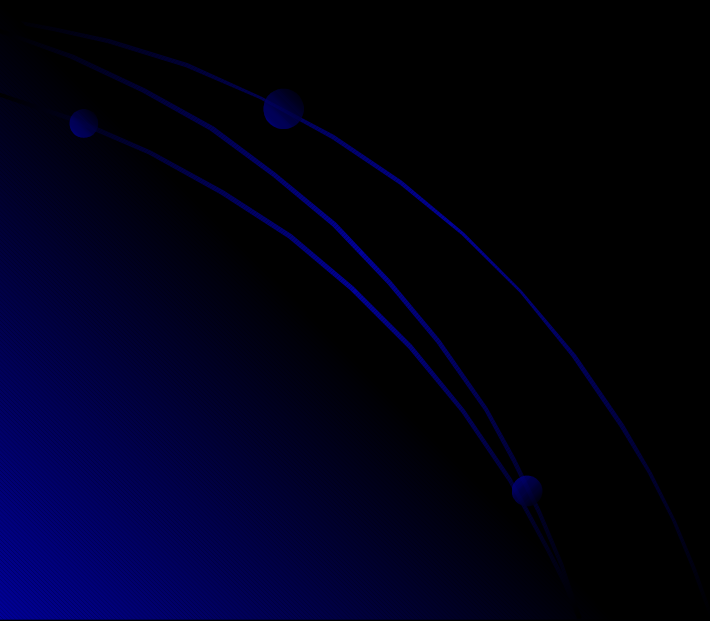
# MDS na obrázky

Obrázky zo 4 cvicenia

Priemerná farba

$$(\bar{R}, \bar{G}, \bar{B}) \quad (\bar{L}, \bar{a}, \bar{b})$$

```
images = dir('* .jpg');  
nn = length(images);  
  
for ii=1:nn  
    meno = images(ii).name;  
    img = imread(meno);  
    vypocitat vektor priznakov (R,G,B) alebo (L,a,b)  
end
```



# vykreslenie

```
vysl=zeros(1200,1200,3);  
preskalovat Y na 0-1100
```

```
for ii
```

```
    A = double(imread(meno))/255;
```

```
    B = imresize(A, [rr cc]);
```

```
    xx= zaokruhlit Y(ii,1)
```

```
    yy= zaokruhlit Y(ii,2)
```

```
    vysl(xx:xx+rr-1,yy:yy+cc-1,:)=B;
```

```
end
```

```
imshow(vysl)
```