```
% date: 20240415
% author: czy
% description: preview color sets,and generate CZYColorSets.mat
clear all;clc
CZYColorSets_cell = {};
x=[1;2];
for i=1:20
    y(:,i)=i * ones(2,1);
end
```

配色方案

调用方式：

addpath('路径');

colorRGB = CZYColor{<Color Set index>,1}(:,<Color Index>)

```
%颜色预设1
colorSet_1=[79 129 189;
    192 80 77;
    155 187 89;
    128 100 162;
    75 172 198]'/256;
CZYColorSets_cell= [CZYColorSets_cell;colorSet_1];
figure();
for i=1:size(colorSet_1,2)
    plot(x,y(:,i),'Color',colorSet_1(:,i),'LineWidth',2);hold on;
end
ylabel('index');ylim([0 i+1]);title(sprintf('Color Set %d',1));
set(gcf,'position',[0 0 500 200]);set(gca,'XTickLabel',[],'xTick',[]);
```


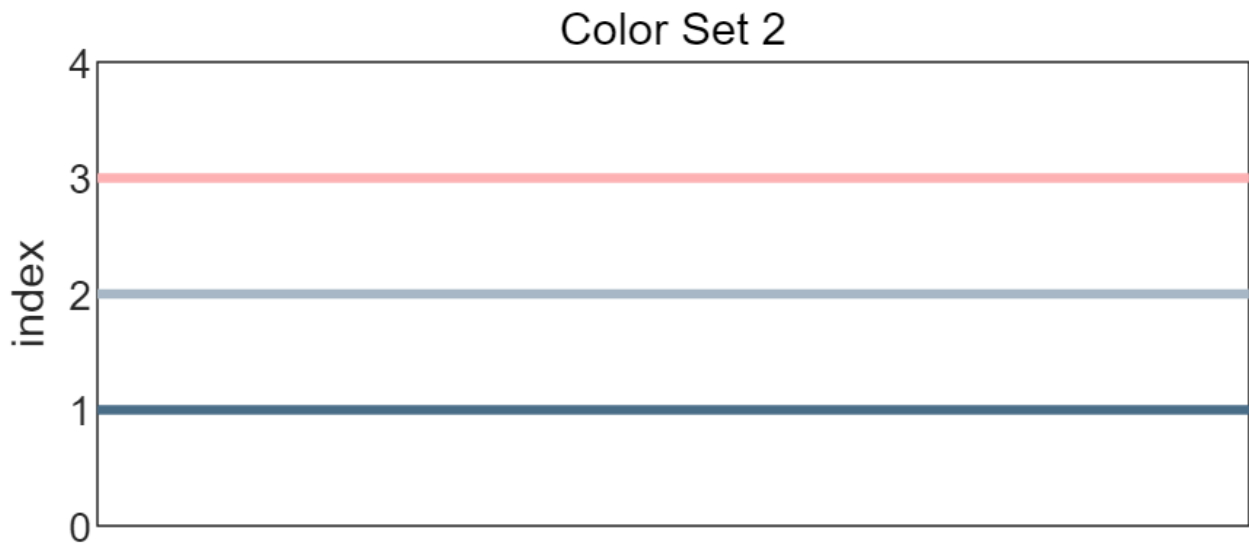Color Set 1

```
%颜色预设2
```

```matlab
colorSet_2=[73 108 136;
    169 184 198;
    254 178 180]'/256;
CZYColorSets_cell= [CZYColorSets_cell;colorSet_2];
figure();
for i=1:size(colorSet_2,2)
    plot(x,y(:,i),'Color',colorSet_2(:,i),'LineWidth',2);hold on;
end
ylabel('index');ylim([0 i+1]);title(sprintf('Color Set %d',2));
set(gcf,'position',[0 0 500 200]);set(gca,'XTickLabel',[],'xTick',[]);
```


Color Set 2
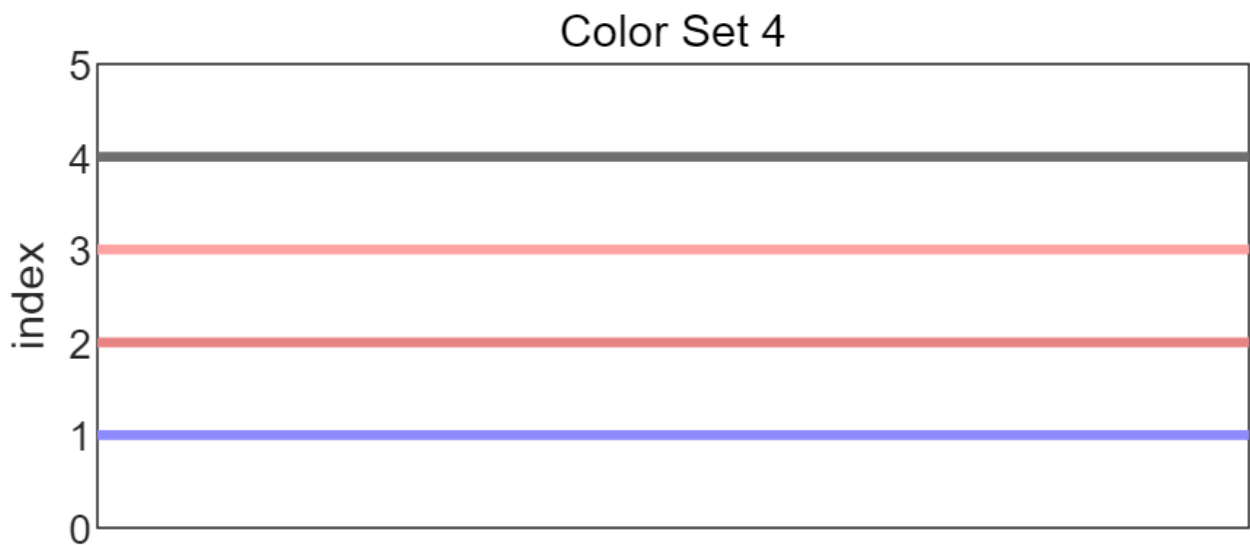
```matlab
%颜色预设 3
colorSet_3=[242 121 112;
    187 151 39;
    84 179 69;
    50 184 151;
    5 185 226;
    137 131 191;
    199 109 162]'/256;
CZYColorSets_cell= [CZYColorSets_cell;colorSet_3];
figure();
for i=1:size(colorSet_3,2)
    plot(x,y(:,i),'Color',colorSet_3(:,i),'LineWidth',2);hold on;
end
ylabel('index');ylim([0 i+1]);title(sprintf('Color Set %d',3));
set(gcf,'position',[0 0 500 200]);set(gca,'XTickLabel',[],'xTick',[]);
```

Color Set 3

```
%颜色预设 4
colorSet_4=[142 139 254;
    232 132 130;
    254 163 162;
    111 111 111]'/256;
CZYColorSets_cell= [CZYColorSets_cell;colorSet_4];
figure();
for i=1:size(colorSet_4,2)
    plot(x,y(:,i),'Color',colorSet_4(:,i),'LineWidth',2);hold on;
end
ylabel('index');ylim([0 i+1]);title(sprintf('Color Set %d',4));
set(gcf,'position',[0 0 500 200]);set(gca,'XTickLabel',[],'xTick',[]);
```


Color Set 4

```
%颜色预设 5
colorSet_5=[40 120 181;
    154 201 219;
```

```
    248 172 140;
    200 36 35;
    255 136 132]'/256;
CZYColorSets_cell= [CZYColorSets_cell;colorSet_5];
figure();
for i=1:size(colorSet_5,2)
    plot(x,y(:,i),'Color',colorSet_5(:,i),'LineWidth',2);hold on;
end
ylabel('index');ylim([0 i+1]);title(sprintf('Color Set %d',5));
set(gcf,'position',[0 0 500 200]);set(gca,'XTickLabel',[],'xTick',[]);
```
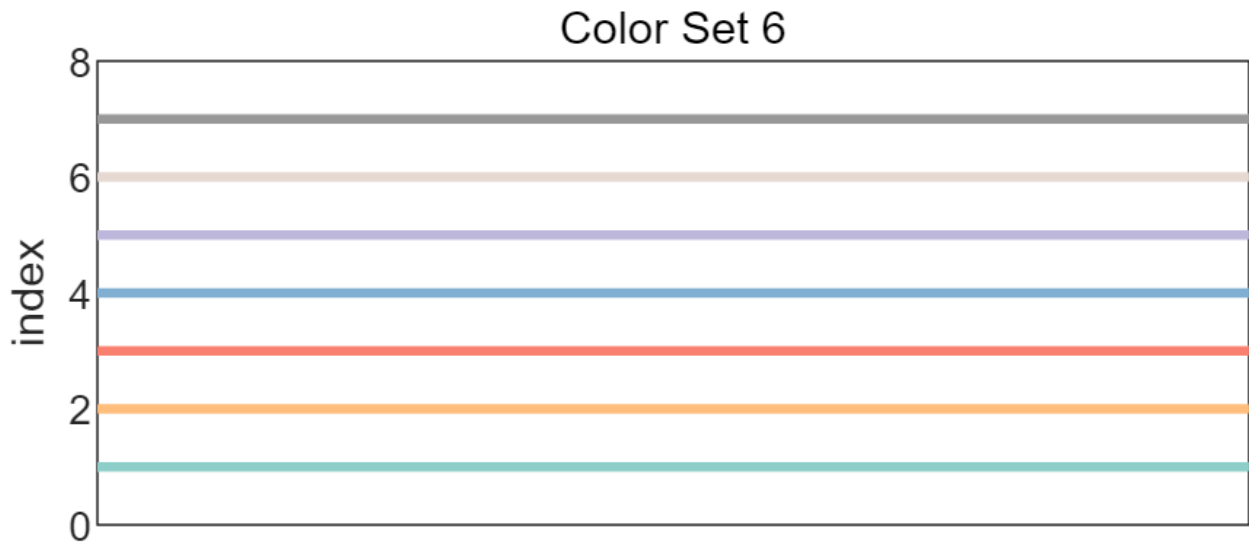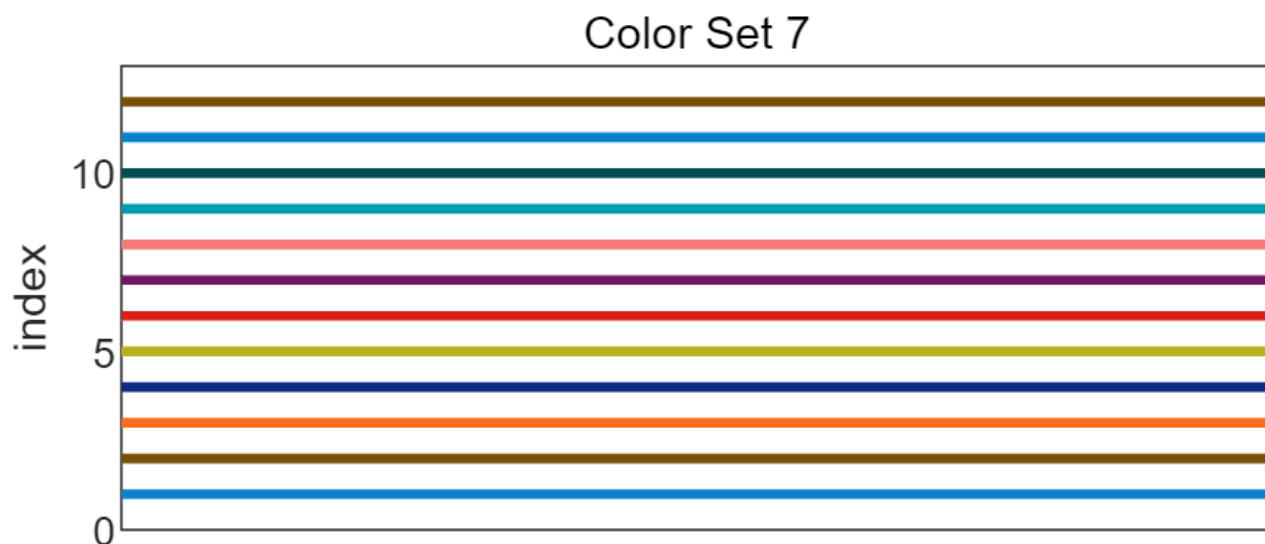

Color Set 5

```
%颜色预设 6
colorSet_6=[142 207 201;
    255 190 122;
    250 127 111;
    130 176 210;
    190 184 220;
    231 218 210;
    153 153 153]'/256;
CZYColorSets_cell= [CZYColorSets_cell;colorSet_6];
figure();
for i=1:size(colorSet_6,2)
    plot(x,y(:,i),'Color',colorSet_6(:,i),'LineWidth',2);hold on;
end
ylabel('index');ylim([0 i+1]);title(sprintf('Color Set %d',6));
set(gcf,'position',[0 0 500 200]);set(gca,'XTickLabel',[],'xTick',[]);
```
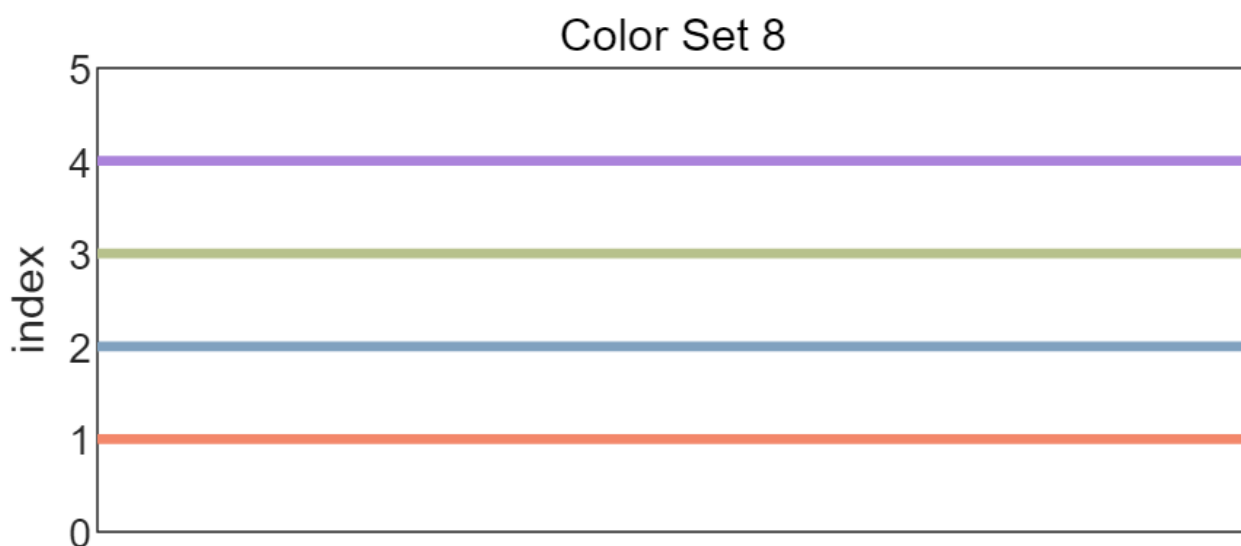
Color Set 6

```matlab
%颜色预设 7
colorSet_7=[7 128 207 ;
    118 80 5;
    250 109 29;
    14 44 130;
    182 181 31;
    218 31 24;
    112 24 102;
    244 122 117;
    0 157 178 ;
    2 75 81;
    7 128 207;
    118 80 5]'/256;
CZYColorSets_cell= [CZYColorSets_cell;colorSet_7];
figure();
for i=1:size(colorSet_7,2)
    plot(x,y(:,i),'Color',colorSet_7(:,i),'LineWidth',2);hold on;
end
ylabel('index');ylim([0 i+1]);title(sprintf('Color Set %d',7));
set(gcf,'position',[0 0 500 200]);set(gca,'XTickLabel',[],'xTick',[]);
```

Color Set 7

```matlab
%颜色预设 8
colorSet_8=[244 136 106 ;
    128 162 192;
    184 194 140;
    172 132 220]'/256;
CZYColorSets_cell= [CZYColorSets_cell;colorSet_8];
figure();
for i=1:size(colorSet_8,2)
    plot(x,y(:,i),'Color',colorSet_8(:,i),'LineWidth',2);hold on;
end
ylabel('index');ylim([0 i+1]);title(sprintf('Color Set %d',8));
set(gcf,'position',[0 0 500 200]);set(gca,'XTickLabel',[],'xTick',[]);
```
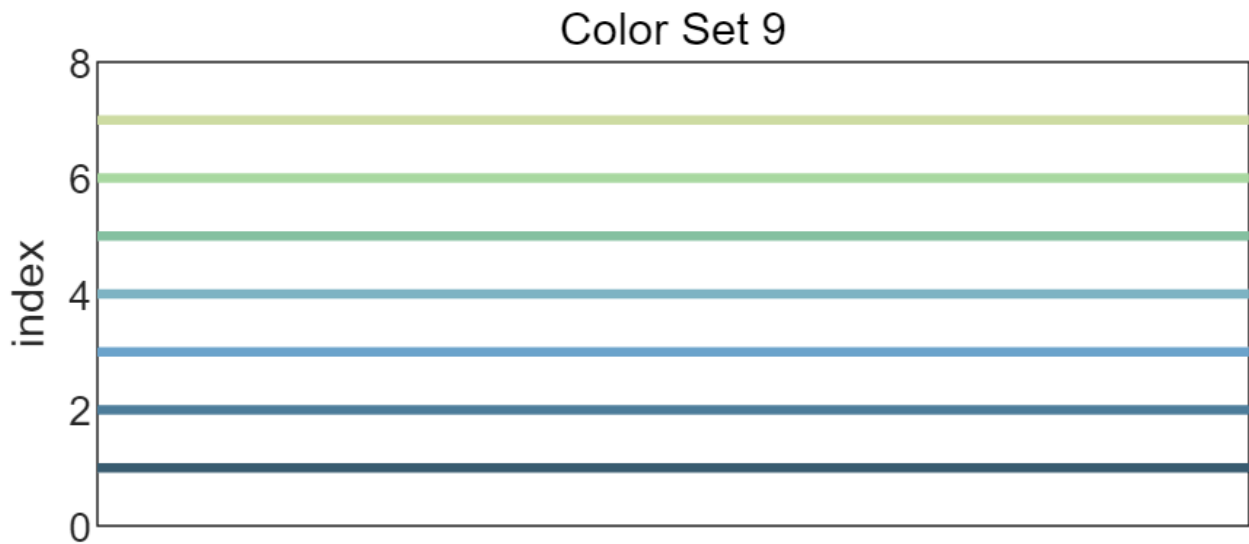
Color Set 8


```matlab
%颜色预设 9 渐变绿色
colorSet_9=[56, 91, 111 ;
    76, 124, 155;
```

```matlab
    107, 164, 204;
    125, 180, 196;
    133, 193, 161;
    169, 217, 161;
    206, 220, 163
    ]'/256;
CZYColorSets_cell= [CZYColorSets_cell;colorSet_9];
figure();
for i=1:size(colorSet_9,2)
    plot(x,y(:,i),'Color',colorSet_9(:,i),'LineWidth',2);hold on;
end
ylabel('index');ylim([0 i+1]);title(sprintf('Color Set %d',9));
set(gcf,'position',[0 0 500 200]);set(gca,'XTickLabel',[],'xTick',[]);
```


Color Set 9

```matlab
%save color sets as .mat
save('CZYColorSets.mat',"CZYColorSets_cell",'-mat')
export("CZYColorSets.mlx");
```

错误使用 export
无法覆盖现有文件。请检查写入权限或检查文件是否已在另一个应用程序中打开。