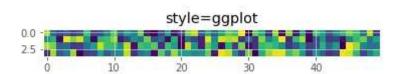
```
In [1]:
           1
                import matplotlib.pyplot as plt
           2
                import numpy as np
           3
                import pandas as pd
                %matplotlib inline
           4
   [2]:
In
           1
                data = np. random. randint (0, 100, size= (4, 50))
           2
                data # numpy 随机生成数据集
Out[2]: array([[85, 34, 22, 31, 17, 24, 71, 21, 22, 46, 72, 29, 57, 42, 77,
                  1, 23, 57,
                              5, 20, 79, 90, 30, 60, 32, 57, 76, 69, 97,
                                                                          0, 75,
                                      6, 61,
                                               3, 70, 58, 26, 51, 65, 80, 70, 36,
                 61, 12, 85,
                              4, 82,
                 88, 18],
                          3, 97, 80, 93, 53,
                                               2, 65,
                 [48, 64,
                                                      69, 83,
                                                               7, 21, 48, 39, 78,
                                   3, 35, 21,
                                               9, 96,
                 25, 35,
                          3, 62,
                                                      49, 93, 87, 90, 17, 36, 14,
                 81, 45, 63, 99, 12, 67, 86,
                                               1, 23, 52, 17, 21,
                                                                   5, 44, 67, 77,
                 37, 58],
                 [86, 79, 32,
                             35, 18, 20, 37, 57, 92,
                                                      69, 68, 47, 90,
                                                                      5, 70, 65,
                 74, 14, 69, 56,
                                  1, 90, 52,
                                               9, 75, 57,
                                                           3, 63, 18, 79,
                                                                           4, 14,
                 68, 71, 65, 52, 17, 29, 53, 20, 24, 64, 33, 56,
                                                                   0, 98, 85, 46,
                 38, 39],
                 [11, 85, 28, 40, 84,
                                      0, 19, 22, 58, 29, 44, 49, 90, 15, 38, 47,
                  3, 74, 42, 84, 55, 57, 48, 51, 76,
                                                      7, 96, 90, 47, 17, 78,
                 62, 84, 95, 96, 68, 80, 55, 16, 50, 33, 15, 22, 97, 93, 67, 22,
                 43, 62]])
   [3]:
                pd data = pd. DataFrame (data. T) # 转换为pandas数据格式
In
           1
                pd_data.columns = ['c1','c2','c3','c4']
           2
                 plt. style. use('ggplot') # 使用配色方案
    [18]:
In
            1
            2
                 plt.imshow(data)
```



plt.title('style=ggplot')

plt.show()

3

In [7]: 1 plt. style. available # 查看plt主题风格

```
Out[7]:
         ['Solarize_Light2',
          '_classic_test_patch',
          'bmh',
          'classic',
          'dark_background',
          'fast<sup>'</sup>,
          'fivethirtyeight',
          'ggplot',
          'grayscale',
           seaborn',
          'seaborn-bright',
          'seaborn-colorblind',
           seaborn-dark',
          'seaborn-dark-palette',
          'seaborn-darkgrid',
          'seaborn-deep',
          'seaborn-muted',
          'seaborn-notebook',
          'seaborn-paper',
          'seaborn-pastel'
          'seaborn-poster',
          'seaborn-talk',
          'seaborn-ticks',
          'seaborn-white',
          'seaborn-whitegrid',
          'tableau-colorblind10']
```

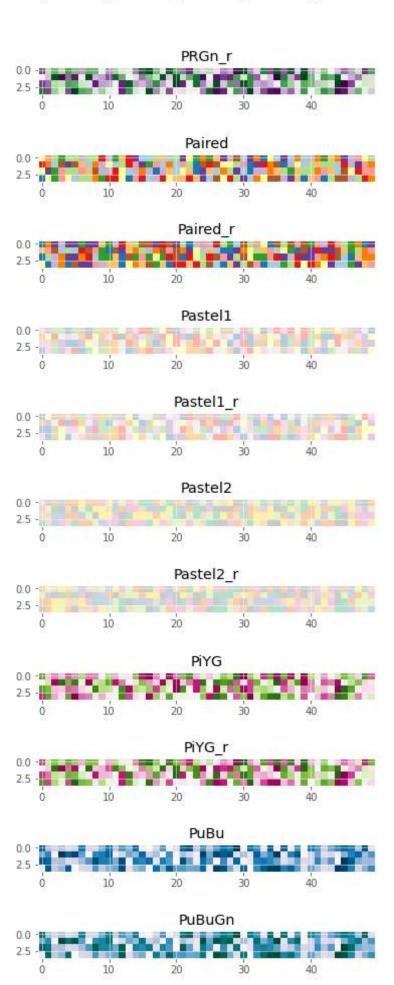


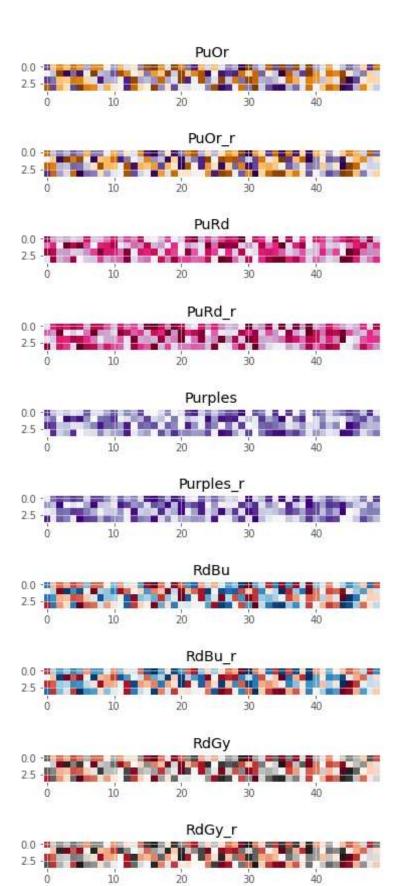
o.

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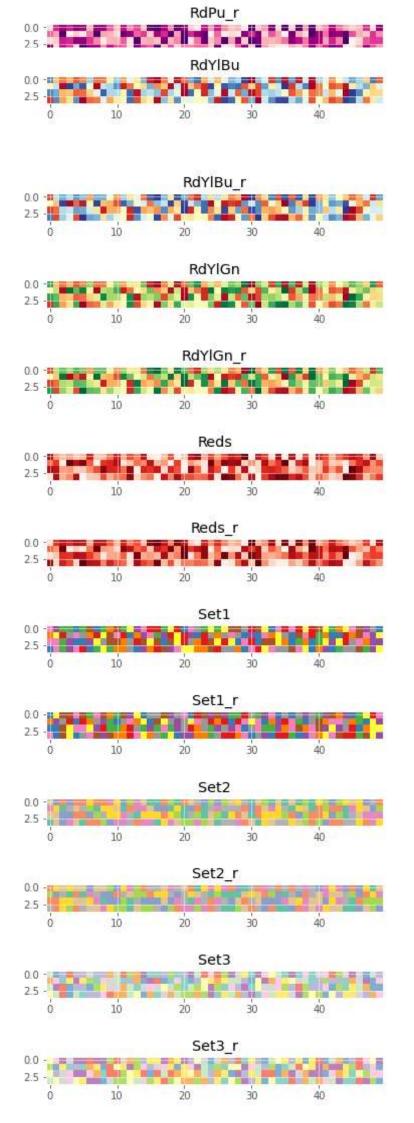


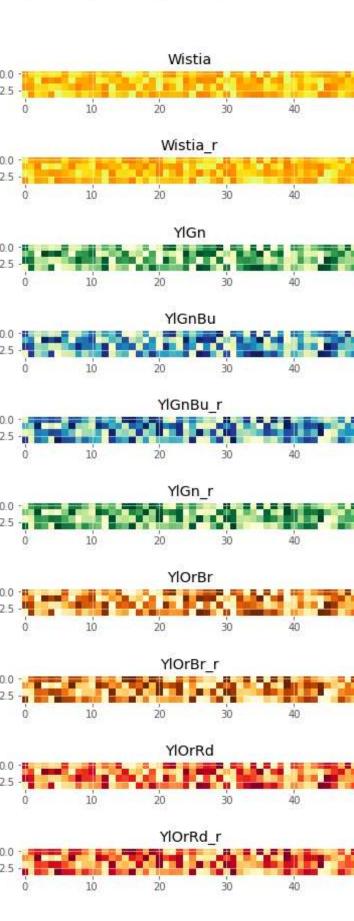
RdPu

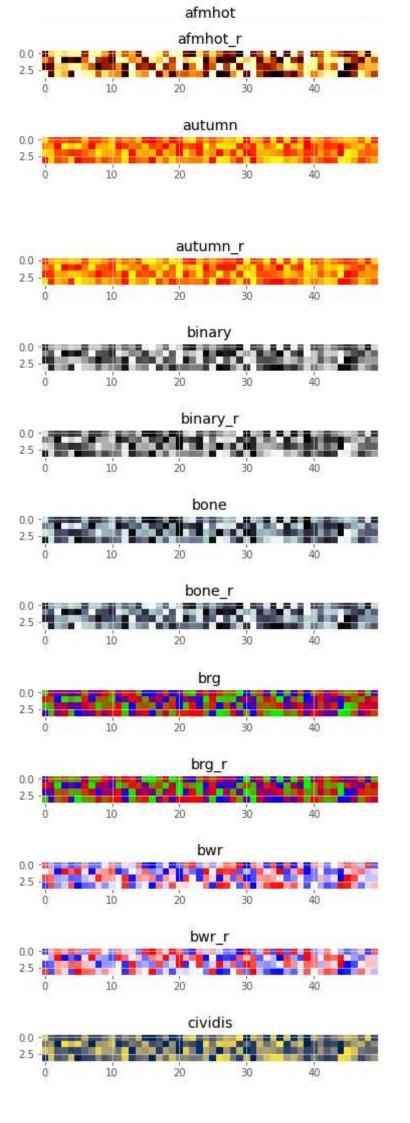
30

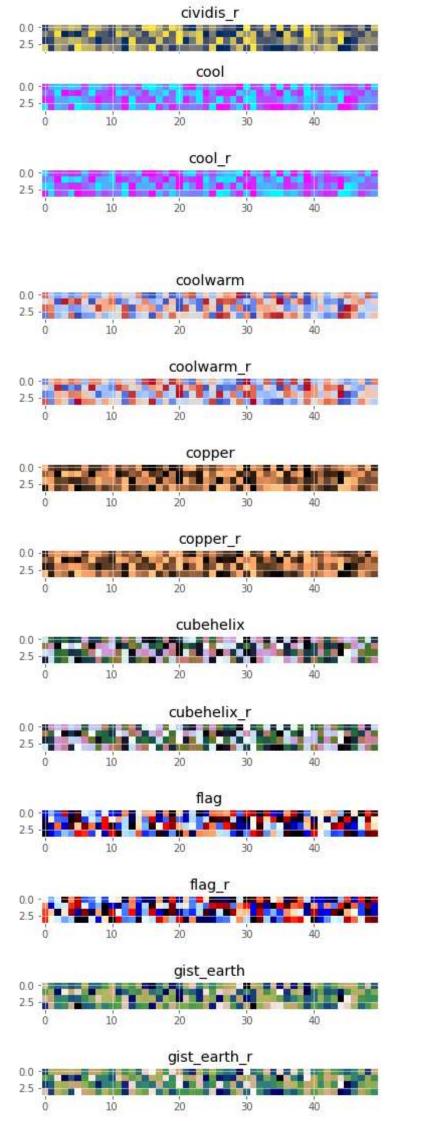
40

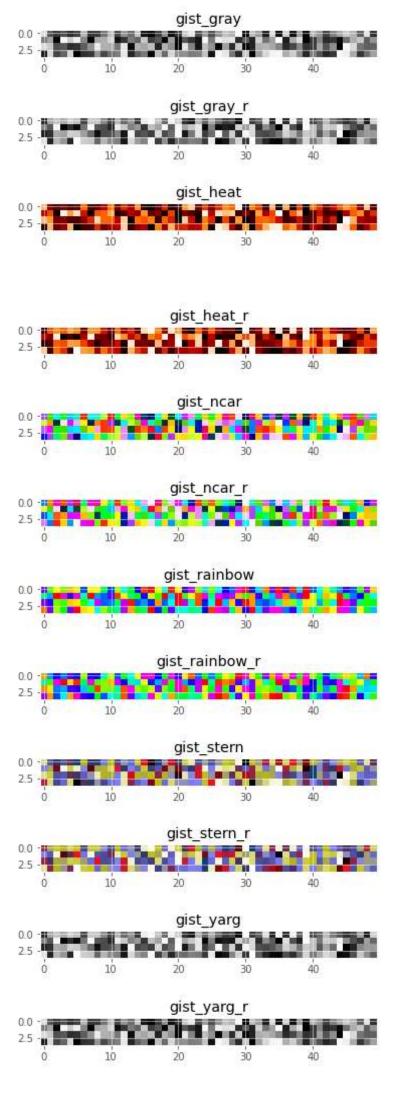
20

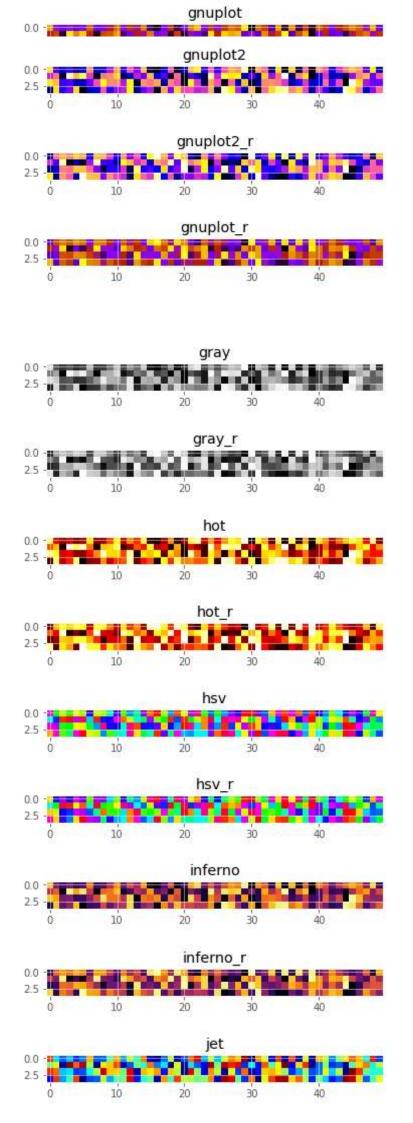












0 10

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