

Pandas - Acting on Data

```

import pandas as pd
import numpy as np

np.random.seed(0)
df2 = pd.DataFrame(np.random.randn(10,4), columns=['A','B','C','D'])

def style_negative(v, props=''):
    return props if v < 0 else None
s2 = df2.style.map(style_negative, props='color:red;')\
    .map(lambda v: 'opacity: 20%;' if (v < 0.3) and (v > -0.3) else
None)

def highlight_max(s, props=''):
    return np.where(s == np.nanmax(s.values), props, '')

# darkblue, pink
s2.apply(highlight_max, props='color:white;background-color:#00008b', axis=0)\
    .apply(highlight_max, props='color:white;background-color: #ffc0cb;', axis=1)\
    .apply(highlight_max, props='color:white;background-color:purple', axis=None)

```

| | A | B | C | D |
|---|-----------|-----------|-----------|-----------|
| 0 | 1.764052 | 0.400157 | 0.978738 | 2.240893 |
| 1 | 1.867558 | -0.977278 | 0.950088 | -0.151357 |
| 2 | -0.103219 | 0.410599 | 0.144044 | 1.454274 |
| 3 | 0.761038 | 0.121675 | 0.443863 | 0.333674 |
| 4 | 1.494079 | -0.205158 | 0.313068 | -0.854096 |
| 5 | -2.552990 | 0.653619 | 0.864436 | -0.742165 |
| 6 | 2.269755 | -1.454366 | 0.045759 | -0.187184 |
| 7 | 1.532779 | 1.469359 | 0.154947 | 0.378163 |
| 8 | -0.887786 | -1.980796 | -0.347912 | 0.156349 |
| 9 | 1.230291 | 1.202380 | -0.387327 | -0.302303 |