In [2]:

```
import numpy as np
np.loadtxt('mycolormap.txt')
```

Out[2]:

```
array([[0.17535077, 0.04342245, 0.04945996],
       [0.19210073, 0.03831876, 0.06036564],
       [0.20942789, 0.03433546, 0.07550847],
       [0.22626557, 0.03106895, 0.09422289],
       [0.24200911, 0.02857538, 0.11621714],
       [0.25616008, 0.02699941, 0.14120956],
       [0.26828546, 0.02651841, 0.16888182],
       [0.27800978, 0.02732031, 0.19886707],
       [0.28501569, 0.02959099, 0.23074876],
       [0.28904732, 0.03350554, 0.26406414],
       [0.28991402, 0.03922143, 0.29831055],
       [0.28749388, 0.04687304, 0.33295339],
       [0.28173633, 0.05656705, 0.36743533],
       [0.27266375, 0.0683788 , 0.4011863 ],
       [0.26037186, 0.0823494 , 0.4336341 ],
       [0.24502884, 0.09848358, 0.4642152 ],
       [0.22687311, 0.11674849, 0.49238561],
       [0.20620985, 0.1370731 , 0.51763157],
       [0.18340625, 0.15934851, 0.53947978],
       [0.15888558, 0.18342897, 0.55750706],
       [0.13312017, 0.20913368, 0.57134915],
       [0.10662341, 0.23624925, 0.58070858],
       [0.07994096, 0.26453281, 0.58536139],
       [0.05364119, 0.29371583, 0.58516259],
       [0.02830521, 0.32350827, 0.58005019],
       [0.00451648, 0.35360342, 0.57004788],
       [0.        , 0.3836829 , 0.55526608],
       [0.        , 0.4134221 , 0.53590153],
       [0.        , 0.44249569, 0.51223521],
       [0.        , 0.4705833 , 0.48462889],
       [0.        , 0.49737511, 0.45352004],
       [0.        , 0.52257739, 0.41941545],
       [0.        , 0.54591777, 0.38288348],
       [0.        , 0.56715023, 0.34454516],
       [0.        , 0.58605967, 0.3050643 ],
       [0.        , 0.60246596, 0.26513666],
       [0.        , 0.61622751, 0.22547851],
       [0.01173219, 0.62724411, 0.18681469],
       [0.04465647, 0.63545912, 0.1498664 ],
       [0.08247519, 0.64086095, 0.11533888],
       [0.12486822, 0.64348374, 0.08390931],
       [0.17144048, 0.64340724, 0.05621507],
       [0.22172784, 0.64075595, 0.03284249],
       [0.27520417, 0.63569742, 0.01431649],
       [0.33128961, 0.62843982, 0.00109111],
       [0.38935986, 0.61922876, 0.        ],
       [0.44875622, 0.60834348, 0.        ],
       [0.50879652, 0.59609236, 0.        ],
       [0.56878635, 0.58280789, 0.00736833],
       [0.62803073, 0.56884125, 0.02447097],
       [0.6858459 , 0.5545564 , 0.04774272],
       [0.74157095, 0.54032399, 0.07698967],
       [0.79457923, 0.52651508, 0.1119227 ],
       [0.8442892 , 0.51349473, 0.1521619 ],
       [0.89017466, 0.50161574, 0.19724263],
       [0.93177406, 0.49121247, 0.24662305],
       [0.96869872, 0.48259495, 0.29969314],
       [1.        , 0.47604341, 0.35578504],
       [1.        , 0.47180318, 0.41418437],
       [1.        , 0.4700803 , 0.47414266],
       [1.        , 0.47103767, 0.53489033],
       [1.        , 0.47479197, 0.59565035],
       [1.        , 0.48141139, 0.65565199],
       [1.        , 0.49091419, 0.71414479],
       [1.        , 0.50326814, 0.77041214],
       [1.        , 0.51839087, 0.82378454],
       [1.        , 0.53615113, 0.87365207],
```

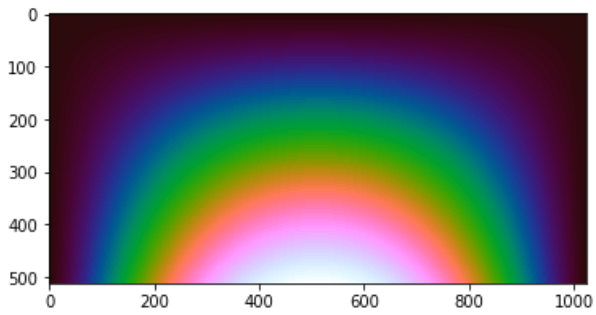
```
       [1.        , 0.55637095, 0.91947598],
       [1.        , 0.57882866, 0.96079914],
       [1.        , 0.60326282, 0.99725505],
       [0.9835625 , 0.62937682, 1.        ],
       [0.96202723, 0.65684428, 1.        ],
       [0.94064029, 0.68531503, 1.        ],
       [0.92010282, 0.71442168, 1.        ],
       [0.90109587, 0.74378654, 1.        ],
       [0.88426673, 0.7730289 , 1.        ],
       [0.87021582, 0.8017725 , 1.        ],
       [0.85948408, 0.82965303, 1.        ],
       [0.85254128, 0.85632556, 1.        ],
       [0.84977543, 0.88147179, 1.        ],
       [0.85148349, 0.90480691, 1.        ],
       [0.85786353, 0.92608602, 1.        ],
       [0.86900864, 0.94510994, 1.        ],
       [0.88490264, 0.96173031, 1.        ],
       [0.90541769, 0.97585382, 1.        ],
       [0.93031399, 0.98744562, 1.        ],
       [0.95924156, 0.99653157, 1.        ],
       [0.99174412, 1.        , 1.        ]])
```

In [4]:

```
import matplotlib.pyplot as plt
import matplotlib.colors as nc
import numpy as np
colors=np.loadtxt('mycolormap.txt')
mycmap=nc.ListedColormap(colors, N=None)
x = np.linspace(-np.pi, np.pi, 1024)
y = np.linspace(0, 1, 512)
xx, yy = np.meshgrid(x, y)
ff = yy*np.cos(xx/2)
plt.imshow(ff, cmap=mycmap)
```

Out[4]:

```
<matplotlib.image.AxesImage at 0x16d04662860>
```



In [ ]: