```
In [117]: # 각 성분을 자연로고, 상용로고, 밑이 2인 로그를 씌운 값을 계산하기
          np. log(arr1)
          /Users/doorbw/anaconda3/envs/tensorflow/lib/python3.6/site-packages/ipykernel/__main__.py:2:
          RuntimeWarning: invalid value encountered in log
            from ipykernel import kernelapp as app
                                      nan, -1.00055807],
Out [117]: array([[
                         nan,
                 [-0.08656889, -0.79045064, -4.98596986],
                 [-0.66959092, -0.94122672,
                                                  nan],
                                      nan, -0.17691415],
                 [-0.28048605,
                 [-1.00484914, 0.20708197, -0.65847301]])
In [118]: np. log10(arr1)
          /Users/doorbw/anaconda3/envs/tensorflow/lib/python3.6/site-packages/ipykernel/__main__.py:1:
          RuntimeWarning: invalid value encountered in Tog10
            if __name__ == '__main__':
Out [118]: array([[
                                      nan, -0.43453685],
                         nan,
                 [-0.03759639, -0.34328835, -2.1653792],
                 [-0.29079964, -0.40876957,
                                                  nan],
                                      nan, -0.07683284],
                 [-0.12181354,
                 [-0.43640043, 0.08993456, -0.28597119]])
In [119]: np. log2(arr1)
          /Users/doorbw/anaconda3/envs/tensorflow/lib/python3.6/site-packages/ipykernel/__main__.py:1:
          RuntimeWarning: invalid value encountered in log2
           if __name__ == '__main__':
Out[119]: array([[
                                    nan, -1.44350016],
                        nan,
                 [-0.1248925 , -1.14037921, -7.193234 ],
                 [-0.9660155 , -1.35790312,
                                                  nan],
                 [-0.40465583.
                                      nan, -0.25523316],
                 [-1.44969086, 0.29875613, -0.94997574]])
```