# scatter jupyter notebook pdf export

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```python
import numpy as np
import matplotlib.pyplot as plt

N = 50
x = np.random.rand(N)
y = np.random.rand(N)
colors = np.random.rand(N)

area = (30*np.random.rand(N))**2

plt.scatter(x,y,s = area, c= colors, alpha = 0.5)
plt.show()
```