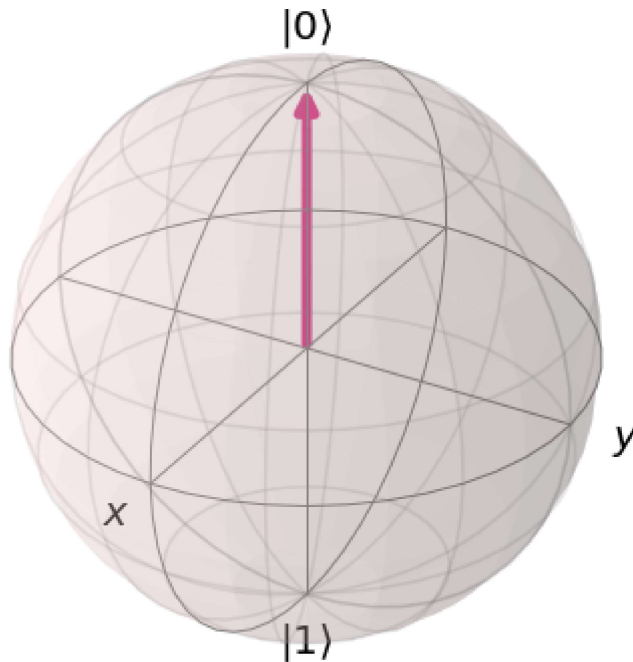```
In [1]:   from qiskit_textbook.widgets import plot_bloch_vector_spherical
          from math import pi
```

# Plotting |0>

```
In [2]:   coords = [0,0,1]
          plot_bloch_vector_spherical(coords)
```
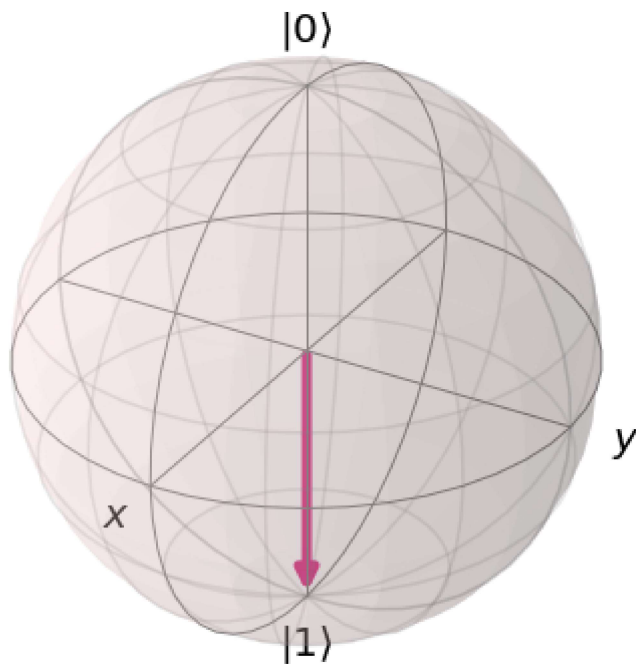
*handwritten: π/2*

Out[2]:



# Plotting |1>

```
In [3]:   coords = [pi,0,1]
          plot_bloch_vector_spherical(coords)
```
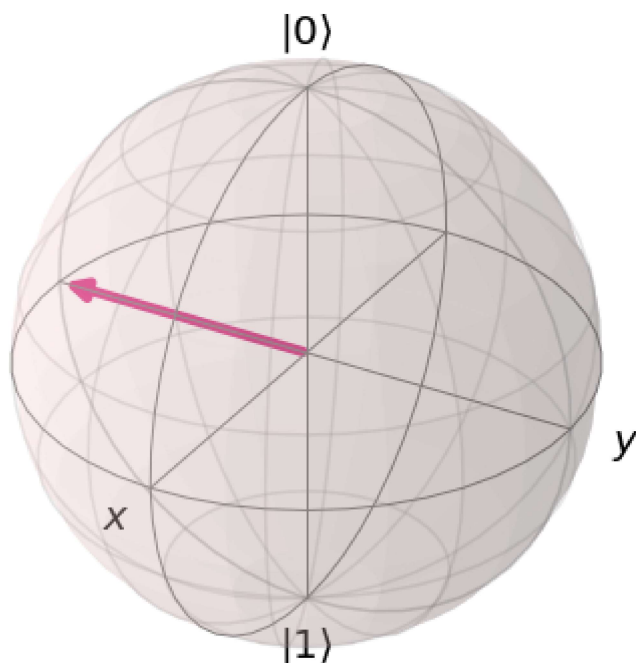
Out[3]:

## Plotting 1/sqrt(2)[|0>-i|1>]

In [4]:
```python
coords = [pi/2,-pi/2,1]
plot_bloch_vector_spherical(coords)
```

Out[4]:

Plotting 1/sqrt(2)[i|0> + |1>]

In [5]:
```python
coords = [pi/2,-pi/2,1]
plot_bloch_vector_spherical(coords)
```

Out[5]:

Plotting 1/sqrt(2)[|0> + |1>]
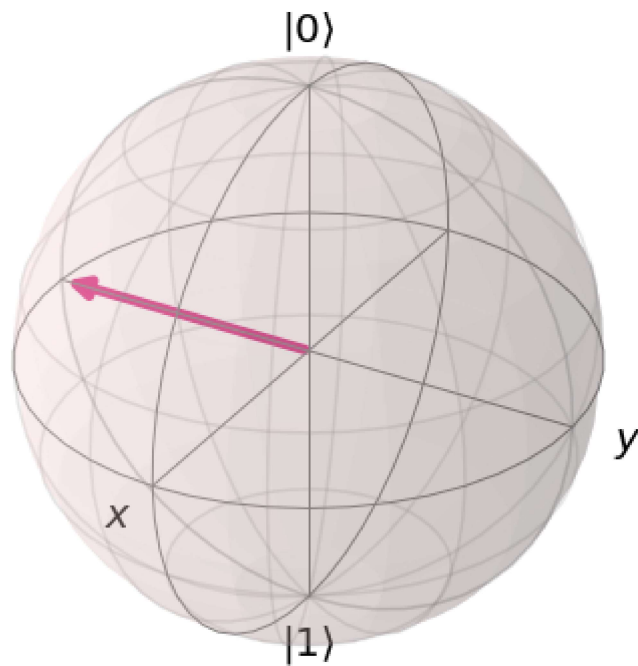
In [6]:
```python
coords = [pi/2,0,1]
plot_bloch_vector_spherical(coords)
```

Out[6]: