

In [1]: `!pip install py3Dmol`

Defaulting to user installation because normal site-packages is not writeable
Requirement already satisfied: py3Dmol in c:\users\sakshi\appdata\roaming\python\python311\site-packages (2.4.2)

In [2]: `import py3Dmol`

In [3]: `# Load the structure from the Protein Data Bank (PDB) using its ID
view = py3Dmol.view(query='6VSB')
view.setStyle({'cartoon': {'color': 'spectrum'}})
view`



Out[3]: `<py3Dmol.view at 0x2b9c25eb650>`

In [4]: `# Change Visualization Style
#Sphere Style

view = py3Dmol.view(query='6VSB')
view.setStyle({'sphere': {'color': 'spectrum'}})
view`



Out[4]: <py3Dmol.view at 0x2b9c25fa690>

In [5]: *#Line Style*

```
view = py3Dmol.view(query='pdb:6VSB')
view.setStyle({'line': {'color': 'greenCarbon'}})
view
```



Out[5]: <py3Dmol.view at 0x2b9c25faf50>

```
In [6]: #Stick Style

view = py3Dmol.view(query='pdb:6VSB')
view.setStyle({'stick': {'radius': 0.2}})
view
```



Out[6]: <py3Dmol.view at 0x2b9c25dc4d0>

In [7]: *#Surface Style*

```
view = py3Dmol.view(query='pdb:6VSB')
view.addSurface(py3Dmol.VDW, {'opacity': 0.7, 'color': 'lightblue'})
view
```



Out[7]: <py3Dmol.view at 0x2b9c2604050>

In [8]: *#Control the View*

#Zoom In Automatically

```
view = py3Dmol.view(query='pdb:6VSB')
view.setStyle({'cartoon': {'color': 'spectrum'}})
view.zoomTo() # Centers and zooms to fit the molecule
view
```



Out[8]: <py3Dmol.view at 0x2b9c2604b90>

In [9]: *#Rotate View*

```
view = py3Dmol.view(query='pdb:6VSB')
view.setStyle({'cartoon': {'color': 'spectrum'}})
view.rotate(90, 'y') # Rotates molecule 90 degrees along y-axis
view
```



Out[9]: <py3Dmol.view at 0x2b9c2605350>

In []: