



In[]:=  from wolframclient.language import wl, Global, wlexpr

In[]:=  Set = wl.Set
a = Global.a

In[]:=  Set(a, 1)

Out[]:= 1

In[]:= a


Out[]:= 1

In[]:=  Set(a, [1,2])

Out[]:= {1, 2}

In[]:= a

Out[]:= {1, 2}


In[]:=  Set(a, [[1,2],3])

Out[]:= {{1, 2}, 3}

In[]:= a

Out[]:= {{1, 2}, 3}

■ numpy array

In[]:=  import numpy as np
Set(Global.a, np.random.randn(3,3))

Out[]:= NumericArray[ Type: Real64
Dimensions: {3, 3}]

In[]:= a

Out[]:= NumericArray[ Type: Real64
Dimensions: {3, 3}]

In[]:= a[[1]]

Out[]:= NumericArray[ Type: Real64
Dimensions: {3}]

In[]:= Normal[a]

Out[]:= {{0.00501997, -0.637512, -0.32006},
{-2.03672, -0.993174, -1.09813}, {-0.433886, -0.40401, 1.01939}}

```
In[ ]:= b = RandomReal[{0, 1}, {3, 3}]
```

```
Out[ ]:= { {0.425989, 0.297698, 0.191584},  
          {0.320627, 0.133872, 0.152868}, {0.825171, 0.535791, 0.939807} }
```

```
In[ ]:=
```



```
mma_b = <*b*>  
print(mma_b)  
print(type(mma_b))
```

```
[ [0.42598936 0.29769774 0.1915845 ]
```

```
 [0.32062731 0.13387174 0.15286827]
```

```
 [0.82517144 0.53579129 0.93980746] ]
```

```
<class 'wolframclient.utils.packedarray.PackedArray'>
```

```
In[ ]:=
```



```
import numpy as np  
np_b = np.asarray(mma_b)  
print(np_b)  
print(type(np_b))
```

```
[ [0.42598936 0.29769774 0.1915845 ]
```

```
 [0.32062731 0.13387174 0.15286827]
```

```
 [0.82517144 0.53579129 0.93980746] ]
```

```
<class 'numpy.ndarray'>
```

```
In[ ]:=
```



```
wlexpr('Mean[b]')
```

```
Out[ ]:= {0.523929, 0.322454, 0.428087}
```

```
In[ ]:= Mean[b]
```

```
Out[ ]:= {0.523929, 0.322454, 0.428087}
```

```
In[ ]:=
```



```
wlexpr('Now[]')
```

```
Out[ ]:= Sun 26 Sep 2021 16:54:53 GMT+8 [ ]
```

```
In[ ]:=
```



```
<* Now[] *>
```

```
Out[ ]:= Sun 26 Sep 2021 16:56:09 GMT+8 [ ]
```

```
In[ ]:=
```



```
wl.ListPlot(np.random.randn(10,2),wlexpr('PlotStyle->Red'),wlexpr('AxesStyle->Blue'))
```

