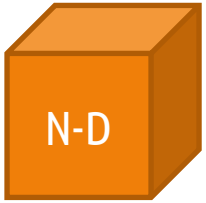
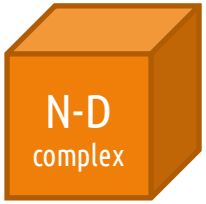
JData Synopsis

https://neurojson.org/jdata/draft3



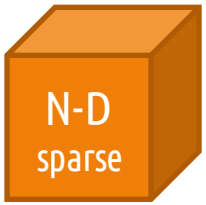
/* Typed N-D arrays */

```
{
  "_ArrayType_": "single",
  "_ArraySize_": [Nx,Ny,Nz,…]
  "_ArrayData_": [v1,v2,…]
}
```



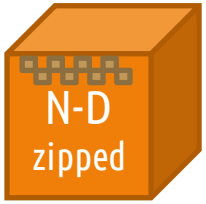
/* Complex N-D arrays */

```
{
  "_ArrayType_": "double",
  "_ArraySize_": [Nx,Ny,Nz,…],
  "_ArrayIsComplex_": true,
  "_ArrayData_": [[r1,r2,…],[i1,i2,…]]
}
```



/* Sparse N-D arrays */

```
{
  "_ArrayType_": "uint32",
  "_ArraySize_": [Nx,Ny,Nz,…],
  "_ArrayIsSparse_": true,
  "_ArrayData_": [[i1,i2,…],[j1,j2,…],[v1,v2,…]]
}
```



/* Compressed N-D arrays */

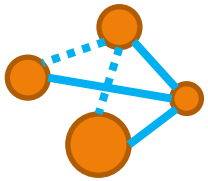
```
{
  "_ArrayType_": "uint8",
  "_ArraySize_": [Nx,Ny,Nz,…],
  "_ArrayZipType_": "gzip",
  "_ArrayZipSize_": …,
  "_ArrayZipData_": "…zipped-base64ed…"
}
```

/* Special matrices */

```
{
  "_ArrayType_": "uint8",
  "_ArraySize_": [Nx,Ny],
  "_ArrayShape_": "band",
  "_ArrayData_": [v11,v12,…]
}
```

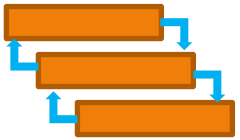
/* Tables */

```
{
  "_TableCols_ ": ["s1", "s2",…],
  "_TableRows_ ": […],
  "_TableRecords_ ": [[v11,v12],[v21,v22],…]
}
```



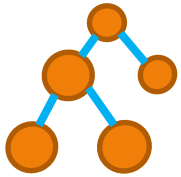
/* Graphs */

```
{
  "_GraphNodes_ ": {"n1", "n2",…],
  "_GraphEdges_ ": [
    ["n1","n2",e12],["n2","n4",e24],…
  ]
}
```



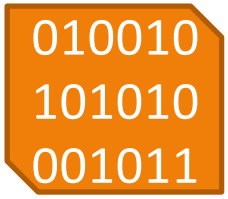
/* Lists */

```
[
  ["_ListNode_(n1)": d1, "_ListNext_ ": "n2"],
  ["_ListNode_(n2)": d2, "_ListNext_ ": "n3"],…
]
```



/* Trees */

```
{
  "_TreeNode_(n1)": d1,
  "_TreeChildren_":[
    { "_TreeNode_(n2)":d2,"_TreeChildren_":[…]},…
  ]
}
```



/* Binary Streams */

```
{
  "_ByteStream_": {
    "_DataInfo_": {"MediaType":"text/plain",…},
    "Data": "…binary-base64…"
  }
}
```