```
<<Data format (ASCII)>>
#/SPBR_ASCII_Data
#/NumParticles num (optional)
... The #/NumParticles command is optional in ASCII data
... Other commands (see below)
#/EndHeader
x y z nx ny nz [R_byte G_byte B_byte]
x y z nx ny nz [R_byte G_byte B_byte]
<<Data format (Binary)>>
#/SPBR_Binary_Data
#/NumParticles 100000 num
... The #/NumParticles command must be described in binary data
... Other commands (see below)
#/EndHeader
x y z nx ny nz R_byte G_byte B_byte
x y z nx ny nz R_byte G_byte B_byte
<<Commands>>
 #/BaseVector e1.x e1.y e1.z e2.x e2.y e2.z
   * Rotation (Set body-coord base vectors in world coord.)
 #/BGColorRGBByte (uByte r) (uByte g) (uByte b)
 #/BoundingBox xmin ymin zmin xmax ymax zmax
 #/CameraFar 1 or 0 (default: 0)
   * On/off of very-far camera setting
 #/CameraPosition (float x) (float y) (float z) (default: (0,0,12))
 #/CameraZoom (zoom_factor f) (default: 1.0)
 #/ColorRGB (double r) (double g) (double b)
 #/ColorRGBByte (uByte r) (uByte g) (uByte b)
 #/EndHeader
   * End of the header reagion
```

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```
#/ForcedShuffle 1 or 0 (default is 0)
  * Additional shuffle after reading data
#/FPS 1 or 0 (default: 0)
  * On/off of displaying FPS on screen
#/ImageResolution (uInt size) (default: 512)
#/LambertShading [kd ka] (default: 0.6 0.4)
#/LOD 1 or 0 (on/off of LOD (default: 1))
#/LookAt (float x) (float y) (float z) (default: (0,0,0))
#/NumParticles num
  * This command makes sense if #/EndHeader command is used together
#/ObjectZXRotation zrot_angle_deg xrot_angle_deg
#/Origin x y z
 * Translation (x, y, z)
#/OrthogonalCamera
  * Use orthogonal projection for camera
#/ParticleZoom 1 or 0 (default: 1)
  * On/off of particle zoom
#/PerspectiveCamera
  * Use perspective projection for camera (default setting is ON))
#/PhongShading [kd ka ks shininess] (default: 0.5 0.3 0.8 100)
#/PointSize (uInt size)
  * Available with -opaque option
#/RepeatLevel (uInt size) (default: 1)
#/ReverseNormals 1 or 0 (default: 0)
#/SPBR_ASCII_Data
  * Beginning of the header reagion
#/Shading 1 or 0 (default: 1)
  * On/off of shading
  * The default shading type is Lambert.
   Use #/LambertShading or #/PhongShading for detailed tuning.
#/Shuffle 1 or 0 (default: 1)
  * On/off of particle shuffling by a renderer
#/ForcedDefaultCamera 1/0 (default 0)
  * All camera setting is initialized.
#/ViewAngle (float angle_deg) (default: 45.0)
#/WireframeBox xmin ymin zmin xmax ymax zmax
```

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* z=zmin: red, z=zmax: blue, z-parallel: green

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