

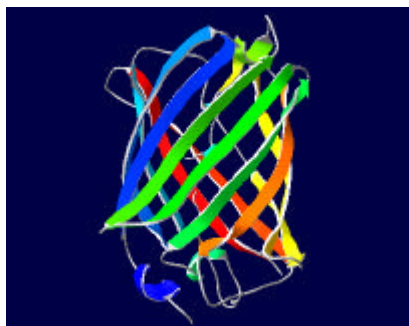
Saving and printing pictures from SPDBV

For several technical reasons, it is not possible to print directly from SPDBV. However, SPDBV provides several tools to create high quality images of molecules:

1. Saving a picture to disk (TGA file)

The current screen view (OpenGL) can directly be saved to disk in TGA file format. TGA files can be imported in all commonly used text or graphic programs (e.g. MS Word, Powerpoint, CorelPaint, PhotoShop etc.). The picture size is the same as the currently used graphics window.

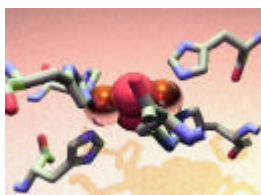
- Load the molecule and adjust the graphic window to the desired format
- Switch the display to solid Open GL rendering (Menu: Display)
- Use the control panel to create the view of the your molecule (colors, ribbons etc.)
- Save the picture to your local disk (Menu: File-Save-Image)
- This could look like this ...



2. Using POV-Ray for raytracing

POV-Ray is a multi platform free Ray-tracer that generates very high quality images. PovRay can be downloaded from <http://www.povray.org/> .

SPDBV can export the current view of the molecule as an input file for PovRay (Menu: File – Save – pov3 Scene). You may want to edit this input file to add some fancy features. Please visit Armand's Website for an excellent collection of pictures created with spdbv & PovRay: <http://chemb16.leidenuniv.nl/~armand/>



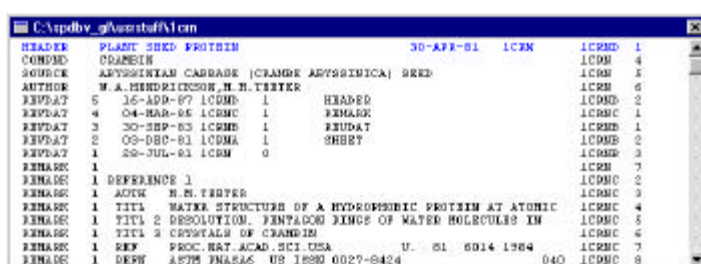
(Picture courtesy of Armand Tepper, Leiden University)

3. Screenshot

Sometimes you may just need a quick & dirty print of the current screen view. There are several tools to capture and print a screen shot. Some of the commonly used are:

PC (Windows)

Click on the window which you would like to print and press [ALT]-[Print Screen] to copy the content of this window to the windows clipboard.

A screenshot of a text editor window titled 'C:\spdbv_g\Asnstab\1.crn'. The window displays the header information of a Protein Data Bank (PDB) file. The text is as follows:

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HEADER PLANT SERG PROTEIN 30-APR-81 1CRN 1CRMC 1
COMPND CRAMELIN 1CRMC 4
SOURCE ARYSEMINAN CABBAGE (CRANBE ARYSEMINICA) SEED 1CRMC 5
AUTHOR W.A.HENDRICKSON,H.H.TEPPER 1CRMC 6
REVDAT 5 16-APR-87 1CRMC 1 HEADED 1CRMC 2
REVDAT 4 04-MAR-85 1CRMC 1 REMARK 1CRMC 1
REVDAT 3 30-SEP-83 1CRMC 1 REVDAT 1CRMC 1
REVDAT 2 08-DEC-81 1CRMC 1 SHEET 1CRMC 2
REVDAT 1 29-JUL-81 1CRMC 0 1CRMC 3
REMARK 1 1CRMC 7
REMARK 1 REFERENCE 1 1CRMC 2
REMARK 1 AUTH H.H.TEPPER 1CRMC 3
REMARK 1 TITL WATER STRUCTURE OF A HYDROPHOBIC PROTEIN AT ATOMIC 1CRMC 4
REMARK 1 TITL 2 RESOLUTION. FIFTEEN RINGS OF WATER MOLECULES IN 1CRMC 5
REMARK 1 TITL 3 CRYSTALS OF CRAMELIN 1CRMC 6
REMARK 1 REF PROC.NAT.ACAD.SCI.USA U. 81 6014 1984 1CRMC 7
REMARK 1 DESK ASTM MAGAZ US 1880 0027-8424 040 1CRMC 8
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SGI

The program „snapshot“ allows to capture parts of the screen and save it into a RGB file.