

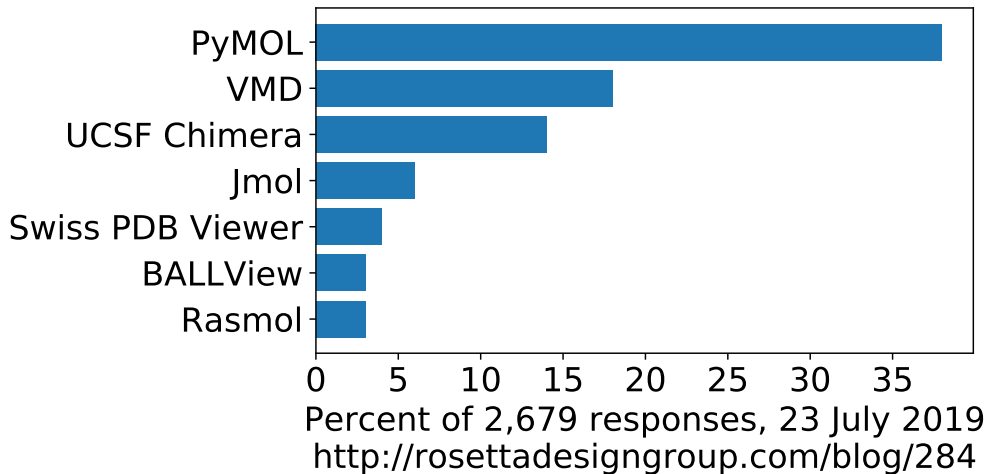
Faster figure generation of RNA structures in PyMOL with shortcuts

Blaine Mooers, PhD

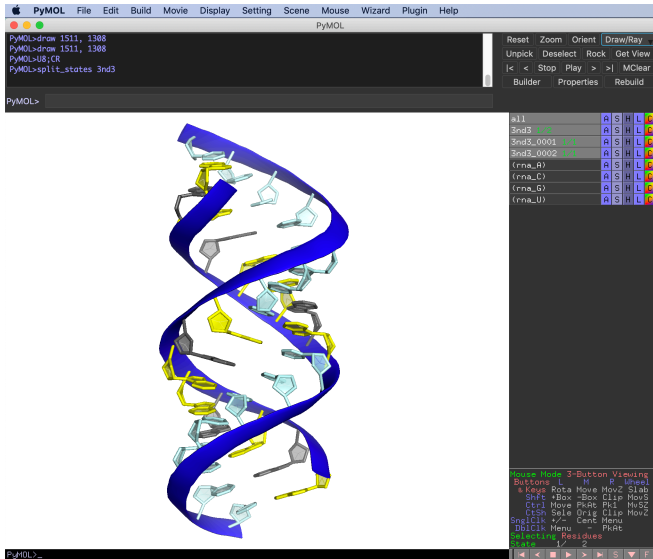
Department of Biochemistry & Molecular Biology
University of Oklahoma Health Sciences Center, Oklahoma City

Corn Belt Regional RNA Meeting
University of Missouri
Columbia, Missouri
18 October 2019

What is your favorite molecular viewer?

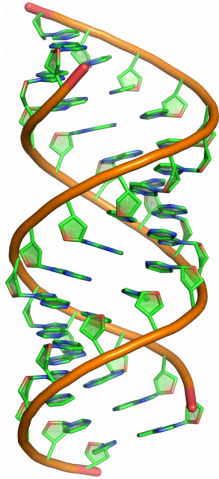


CR colors by nucleotide

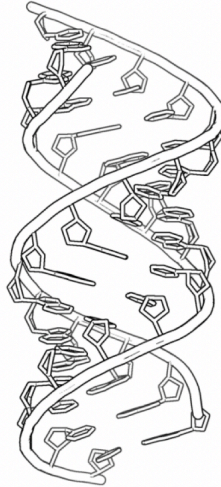


FR colored by element vs BW

U8;FR

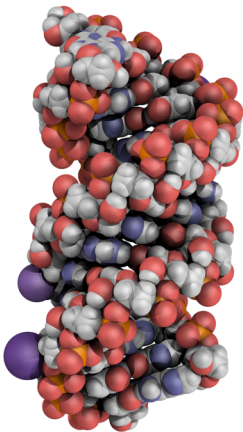


U8;BW

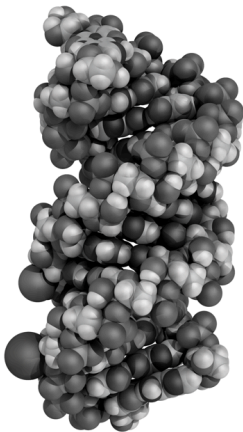


Ambient occlusion (AO) (16 lines of code)

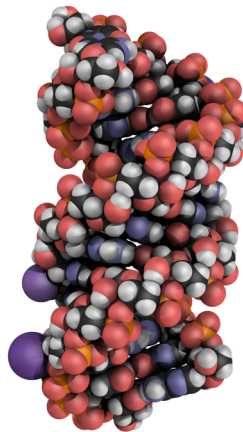
AO



AOBW



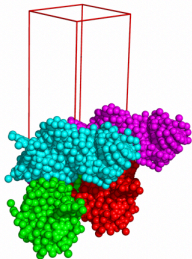
AOD



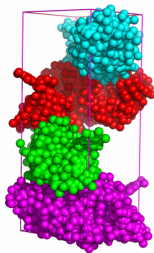
Filling unit cell with symmetry mates

A -> generate -> symmetry mates

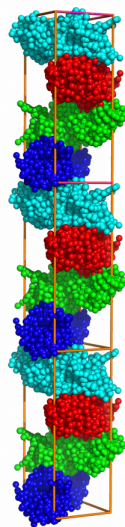
5D99



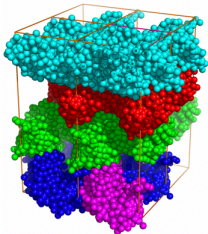
sc111



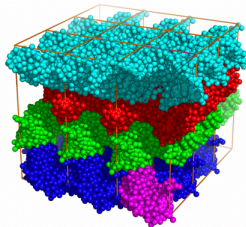
sc113



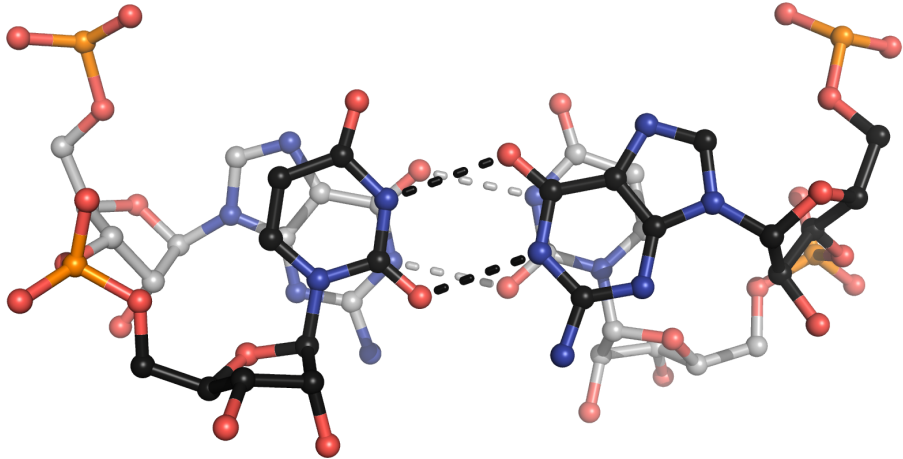
sc221



sc331

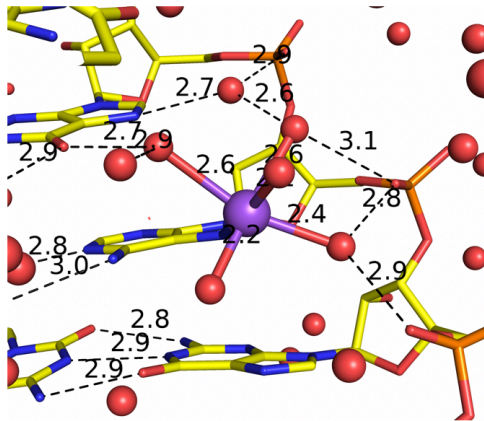


BST gives an example base stacking figure

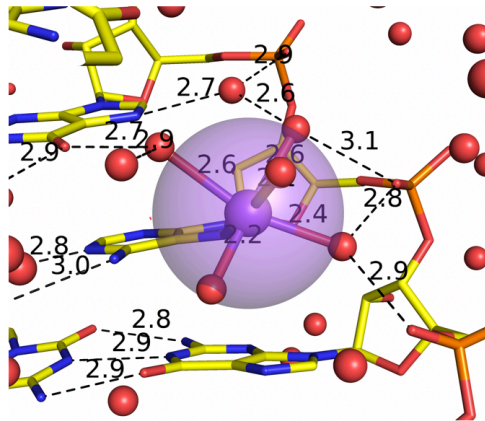


Sodium with coordinate covalent bonds

NAL

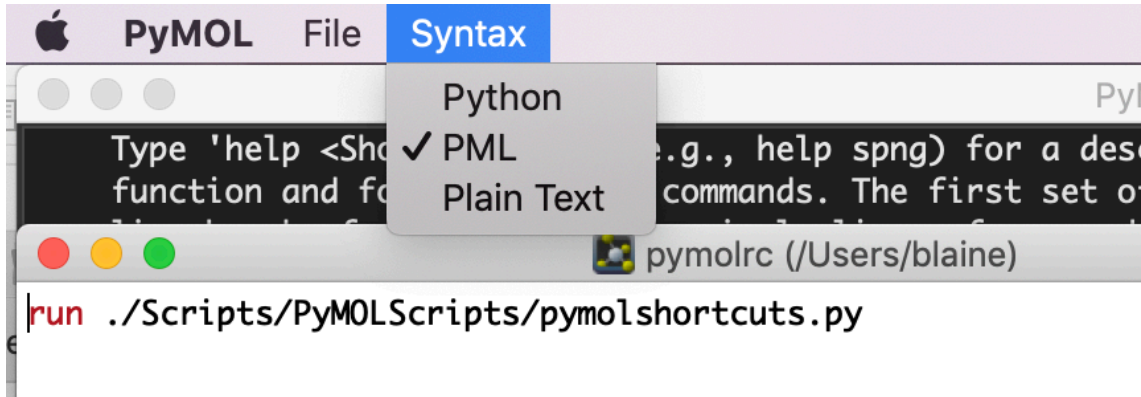


NAL;PE25 /3nd4_1/1/A/NA`19/NA



PyMOL's pymolrc editor

File → edit pymolrc



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Questions?

<https://github.com/MooersLab/pymolshortcuts>

Link is in abstract.

See poster 12 and 19.