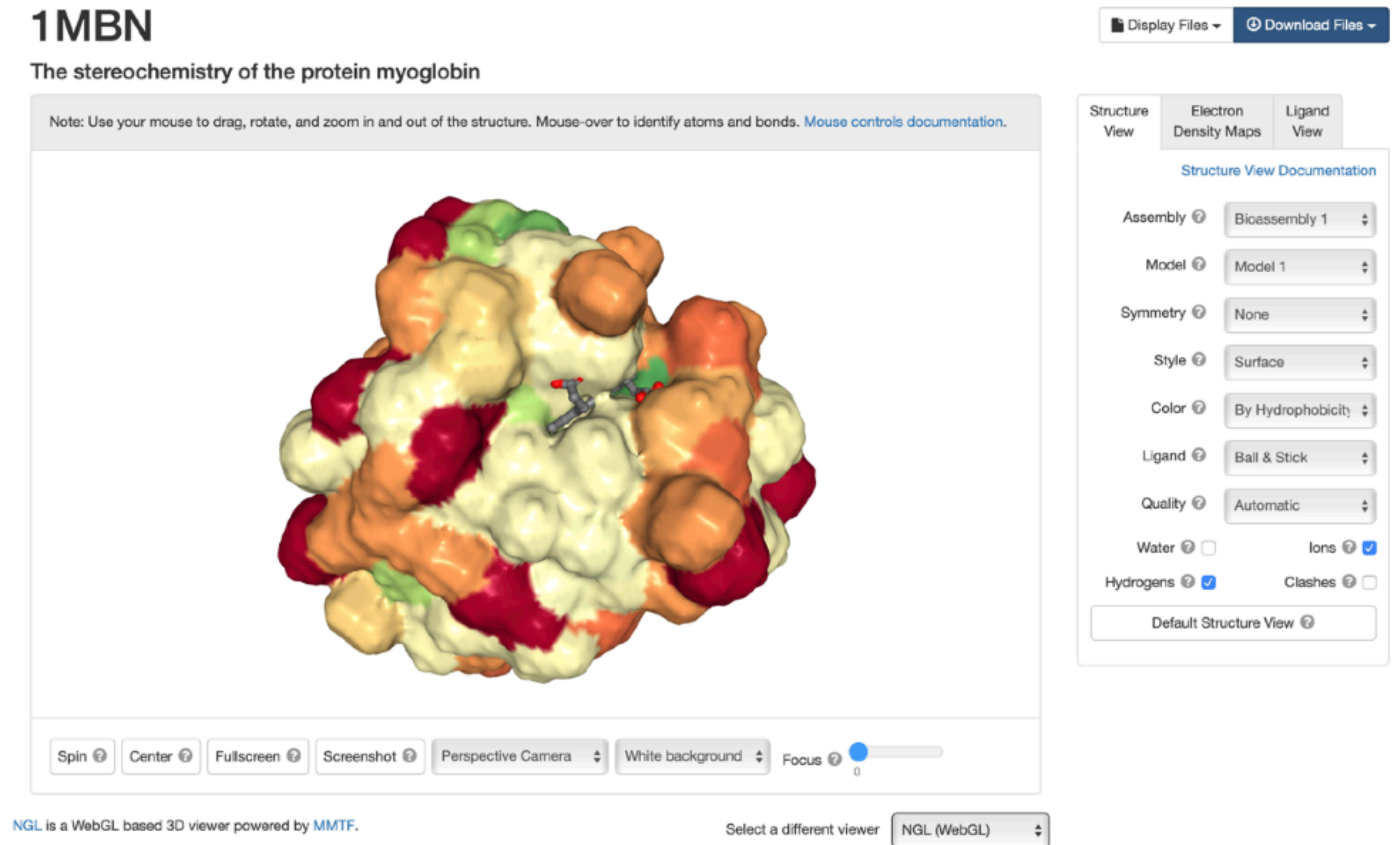


- Change the Style to “Surface” and Color to “By Hydrophobicity”
- While “Cartoon” shows the skeleton of the protein, it can give a misleading impression about how much empty space there is. The Surface shows what the protein looks like from the outside.
- “By Hydrophobicity” will color amino acids by how much they like water.

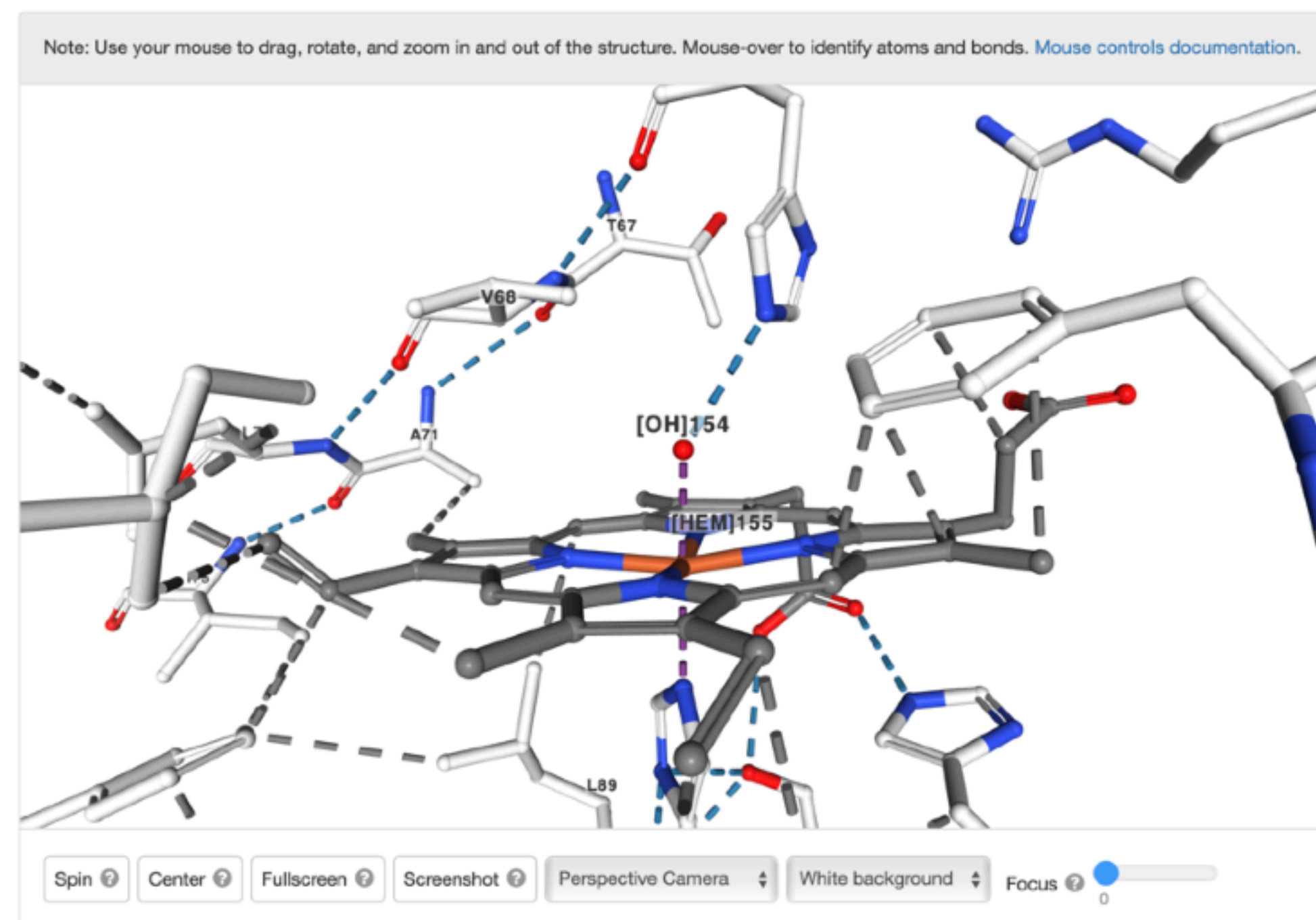


By Hydrophobicity -- colored from red (hydrophilic) to green (hydrophobic).

- Now try “Ligand View”, select [HEM]155:A as the ligand, and zoom in
- This is not a drug, but a heme prosthetic group that is noncovalently bound to the polypeptide
- Uncheck and check the types of bonds/contacts to see how they connect the heme group to the protein (these are predictions)

## 1MBN

The stereochemistry of the protein myoglobin



Display Files ? Download Files ?

Structure View Electron Density Maps Ligand View

[Ligand View Documentation](#)

The ligand pocket is only visible if the opacity is set to greater than zero.

Ligand ? [HEM]155:A

**Pocket**

Opacity ? 0

Near Clipping ? 0

Radius Clipping ? 100

Color ? By Hydrophobicity

Hydrogen Bonds (blue) ? ☒

Halogen Bonds (turquoise) ? ☒

Hydrophobic Contacts (grey) ? ☒

Pi Interactions (orange, green) ? ☒

Metal Interactions (purple) ? ☒

Label ? ☒

Polymer Display ? ☐

Default Ligand View ?