





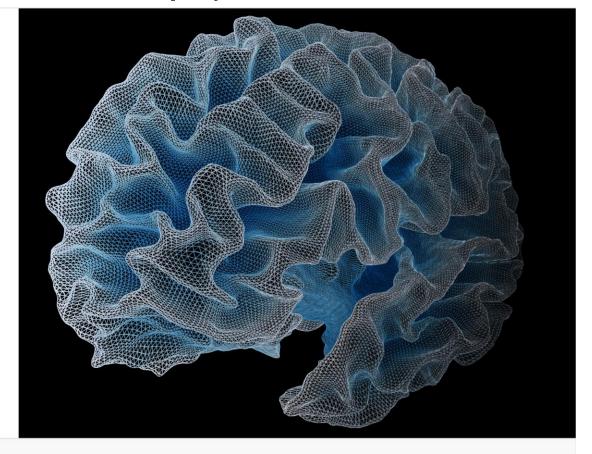
User Interface

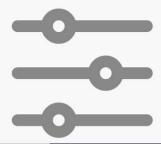
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Landing Page: Click on "Get started" to create a new project

Welcome to Freebrowse

Get started





FreeBrowse is a browser based version of FreeSurfer's Freeview

This is an early proof-of-concept prototype. It is under development and will change in the upcoming weeks and months. Please send feedback (bugs, feature requests and anything else) to pwighton@mgh.harvard.edu

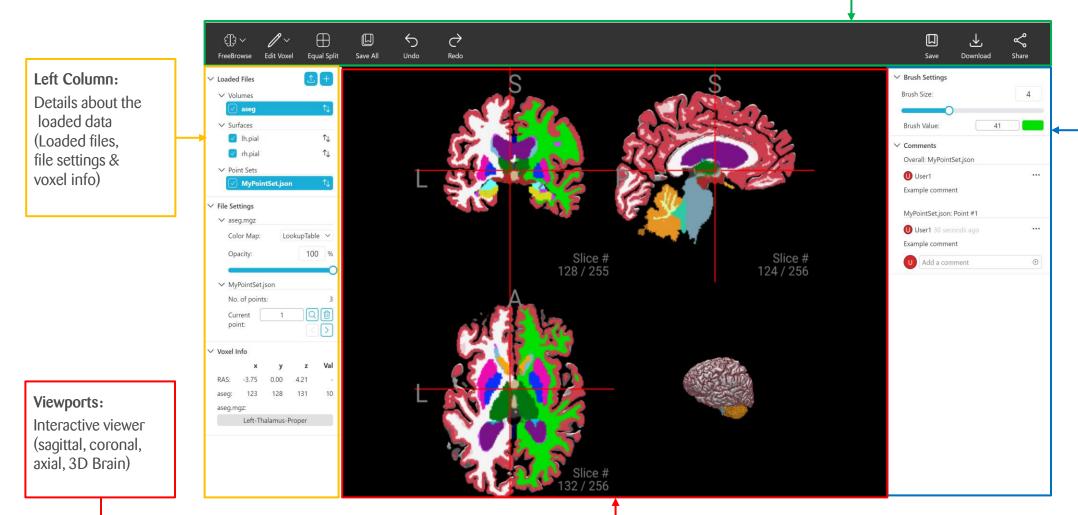
Creating a new project: Choose Project Name and select volumes and surfaces for loading

| Load ve | olumes & surfaces | × |
|---------------|--|------|
| My computer | Cloud | |
| Project Name: | | |
| Subject_1 | | |
| | Drop files to attach, or <u>browse</u> | |
| | Cancel | Open |

FreeBrowse Interface – Areas Explained

Toolbar - Viewports - Left Column - Right Column

Toolbar: Main interactions in FreeBrowse (change mode, change layout, share / download / save project, access user profile, etc.)



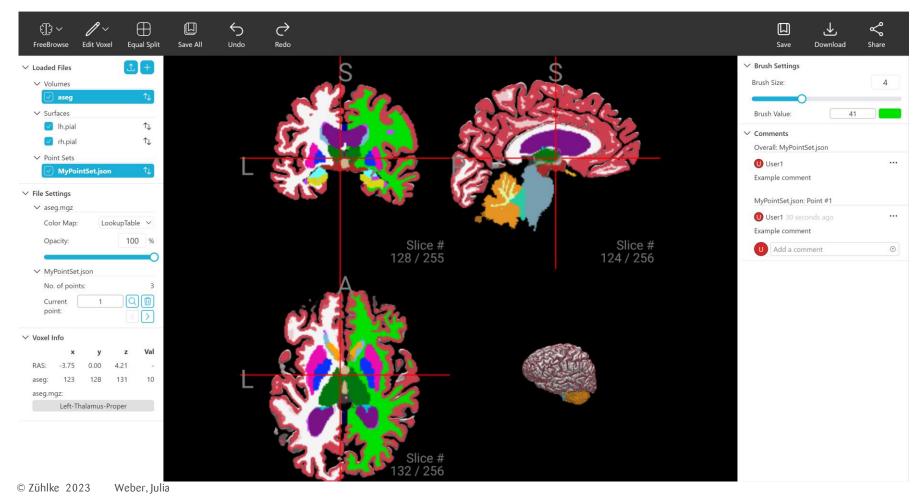
Right Column:

Manipulating the loaded data (Brush settings, Commenting)

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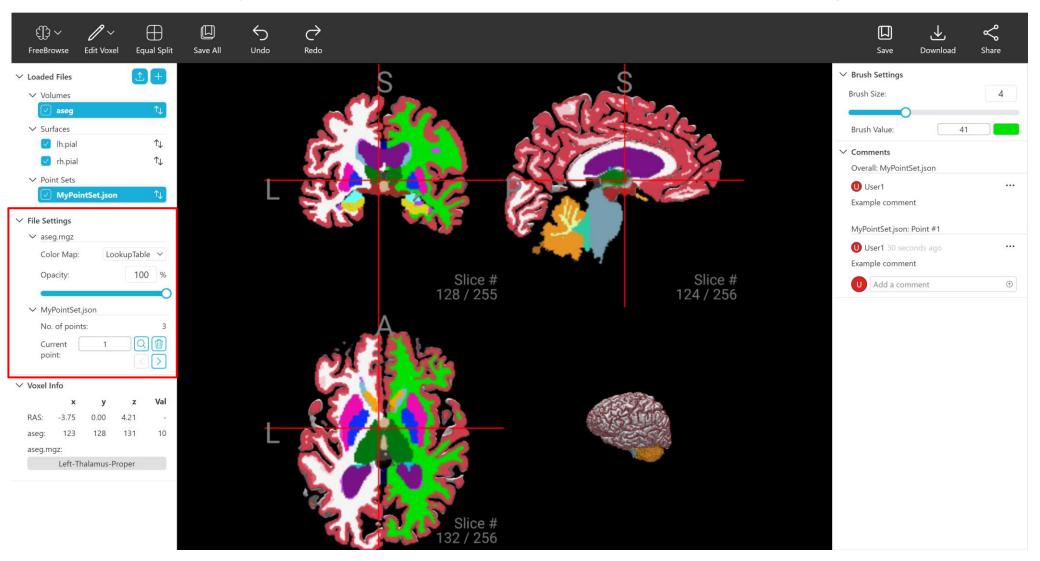
Navigate viewports

- Hover over the view you want to select
- Scroll through the slices Ctrl + scroll or Up and Down arrow keys
- Zoom in & out Scroll



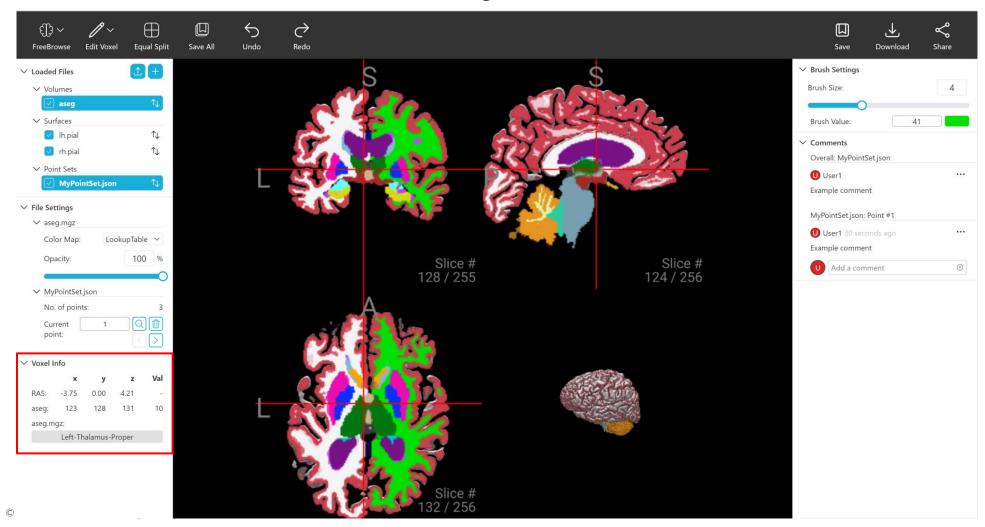
Adjust file settings

• Select the file that you want to interact with and use the controls in the File Settings area



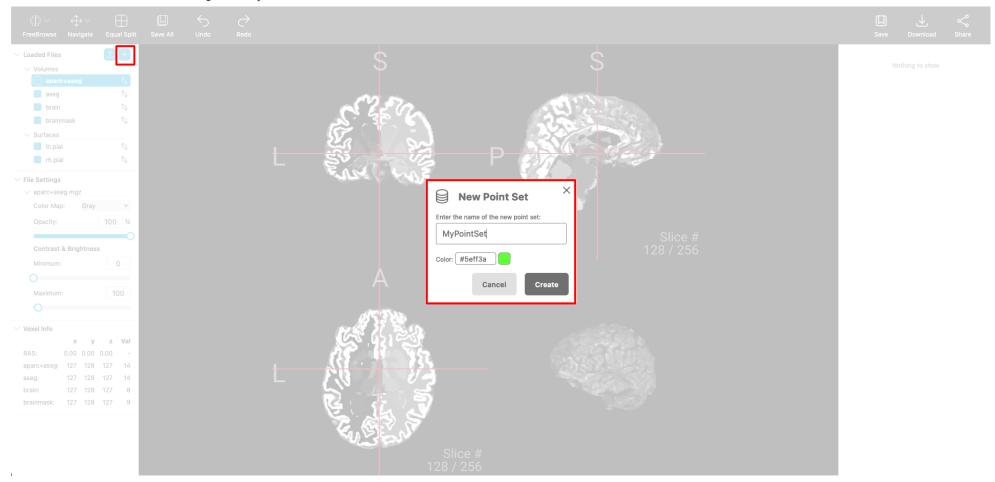
View voxel information

- Click on the desired voxel in the viewport
- Find information like the coordinates, the assigned label or the voxel value in the left column



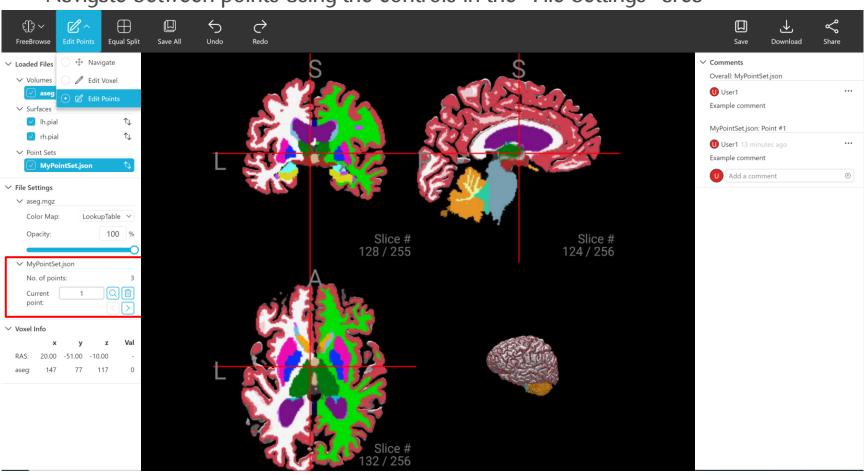
Create a new point set

- Click on the "+" button next to Loaded files
- Enter a name for your point set & choose a color



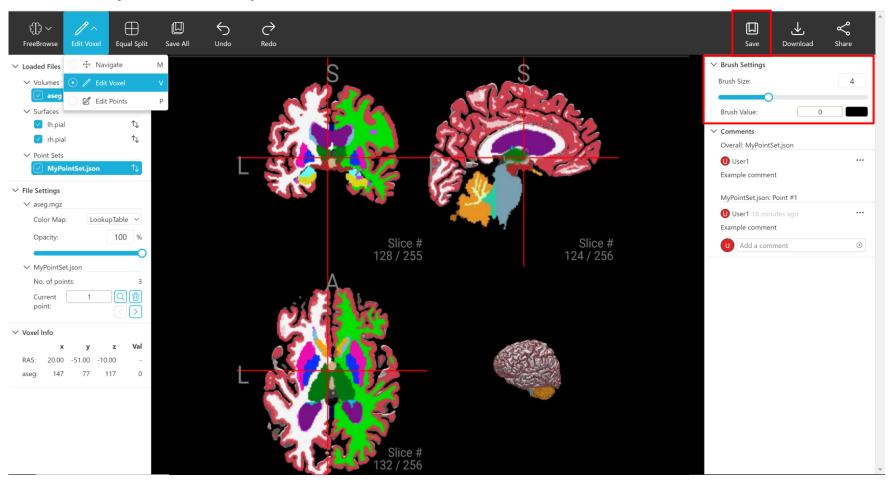
Create & navigate between waypoints

- Select the "Edit Points" mode
- Select the point set that you want to interact with
- Create new points with left click
- Navigate between points using the controls in the "File Settings" area



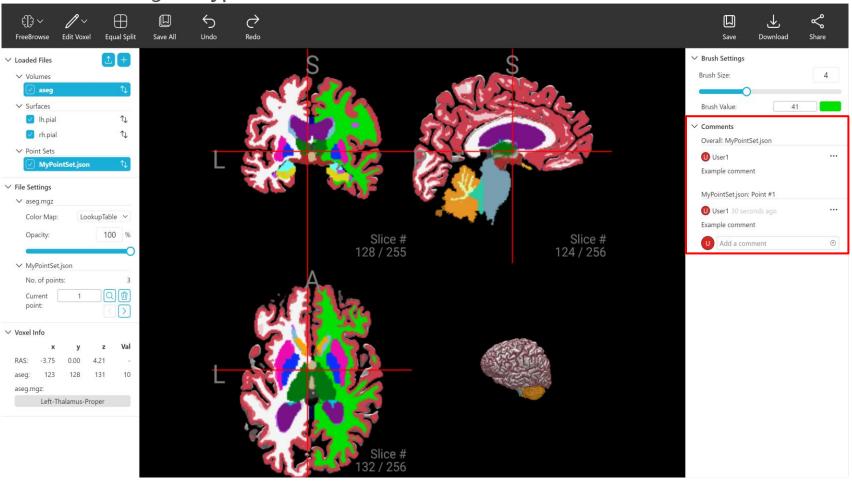
Edit Voxels: Change the brush settings, draw over the slices to edit the voxels

- Select the "Edit Voxel" mode
- Set the preferred brush size and value from the "Brush Settings" area
- Press and hold the left mouse button to edit voxels
- When you are done press the "Save" button



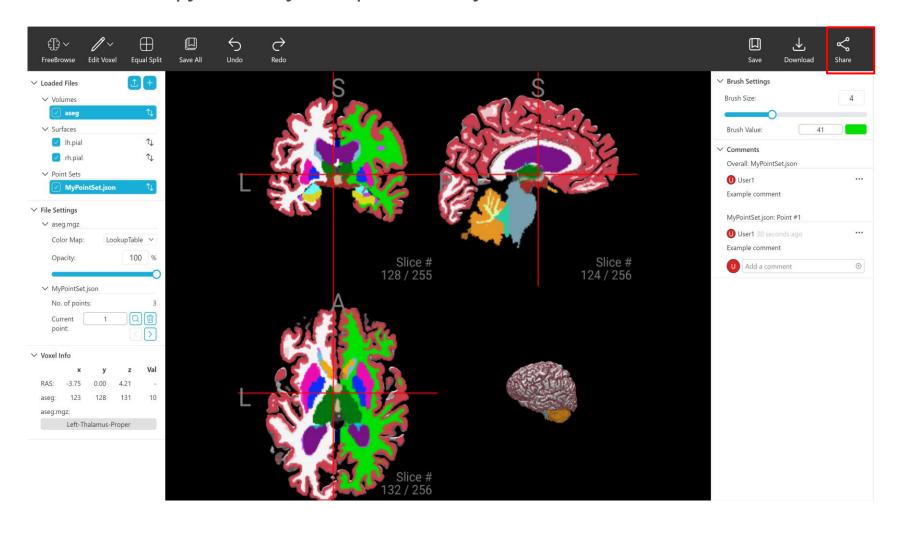
Add comments to waypoints

- Navigate to the waypoint that you want to comment
- From the "Comments" area you can comment on
 - The entire pointset
 - A single waypoint



Deeplink: Share the exact same view with another person for collaboration

- Navigate to the exact view that you want to share
- Press the "Share" button
- This will copy a link to your clipboard that you can share



Summary of Interactions

Interactions & Shortcuts

FreeBrowse is a **single page application** that can be controlled with a **mouse** or **trackpad** and a **keyboard**.

PoC Interactions:

| Desired action | FreeBrowse interaction | Shortcut (Windows) | Shortcut (MAC) |
|-------------------------|--|---|---|
| Select | Left-click with mouse | - | - |
| Zoom | Scroll with mouse | Scroll | Scroll |
| Rotate | Left-click hold & drag mouse across 3D viewport | - | - |
| Panning | Right-click & drag mouse across 2D viewport | - | - |
| Undo | Left-click "Undo" button | CTRL + Z | CMD + Z |
| Redo | Left-click "Redo" button | CTRL + Y | CMD + Y |
| Navigate through slices | Arrow Up / Down | CTRL+ scroll with mouse/ up and down arrow keys | CMD + scroll with mouse/ up and down arrow keys |
| Save | Left-click "Save" button | CTRL + S | CMD + S |
| Draw | Left-click hold & drag mouse across 2D viewport ("Voxel Edit" mode only) | - | - |
| Create waypoint | Left-click with mouse ("Point Edit" mode only) | - | - |