



# Slice:Drop

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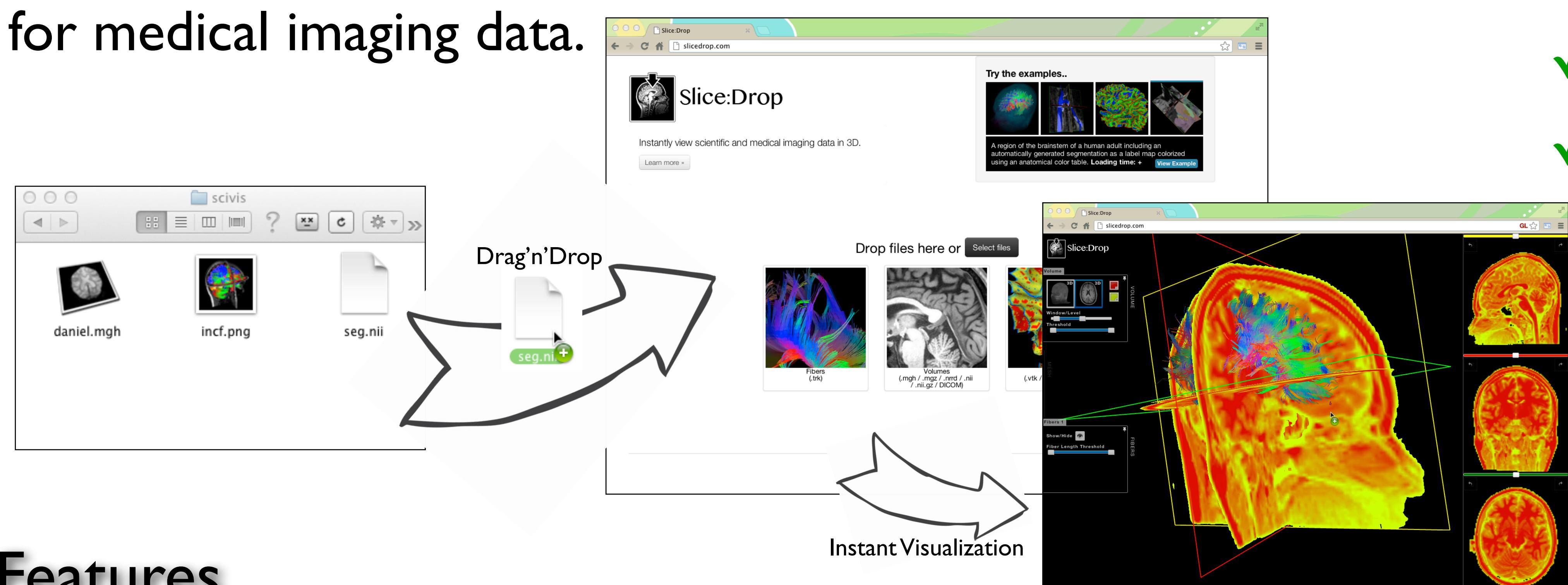
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## Introduction

Slice:Drop is a web-based, interactive viewer for medical imaging data.



## Technologies

- ✓ Web Application
- ✓ Completely client-sided
- ✓ Fully Open Source (MIT License)

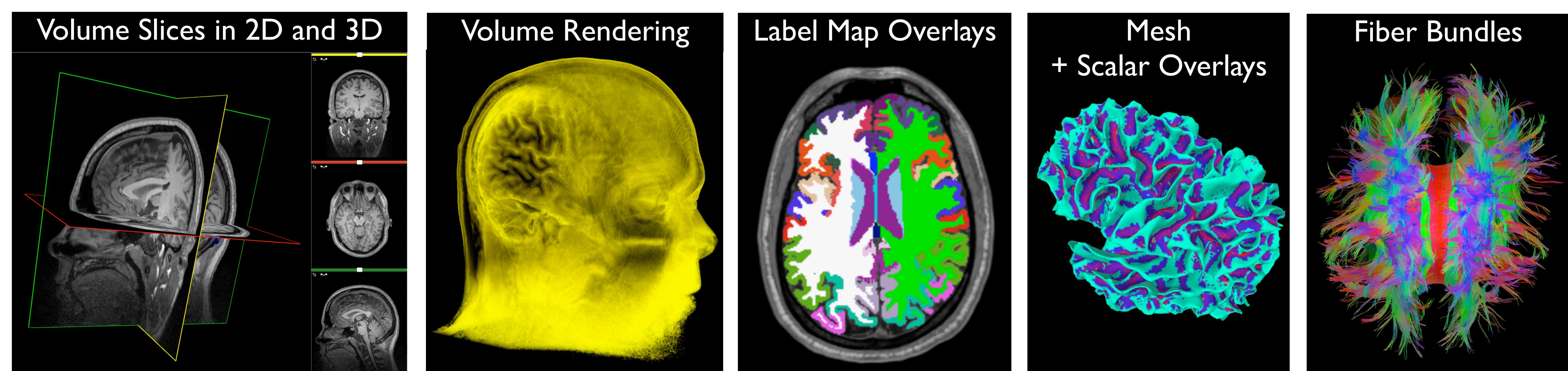


Browser Ponies from  
<http://paulirish.deviantart.com/favourites/51528712>

HTML



## Features

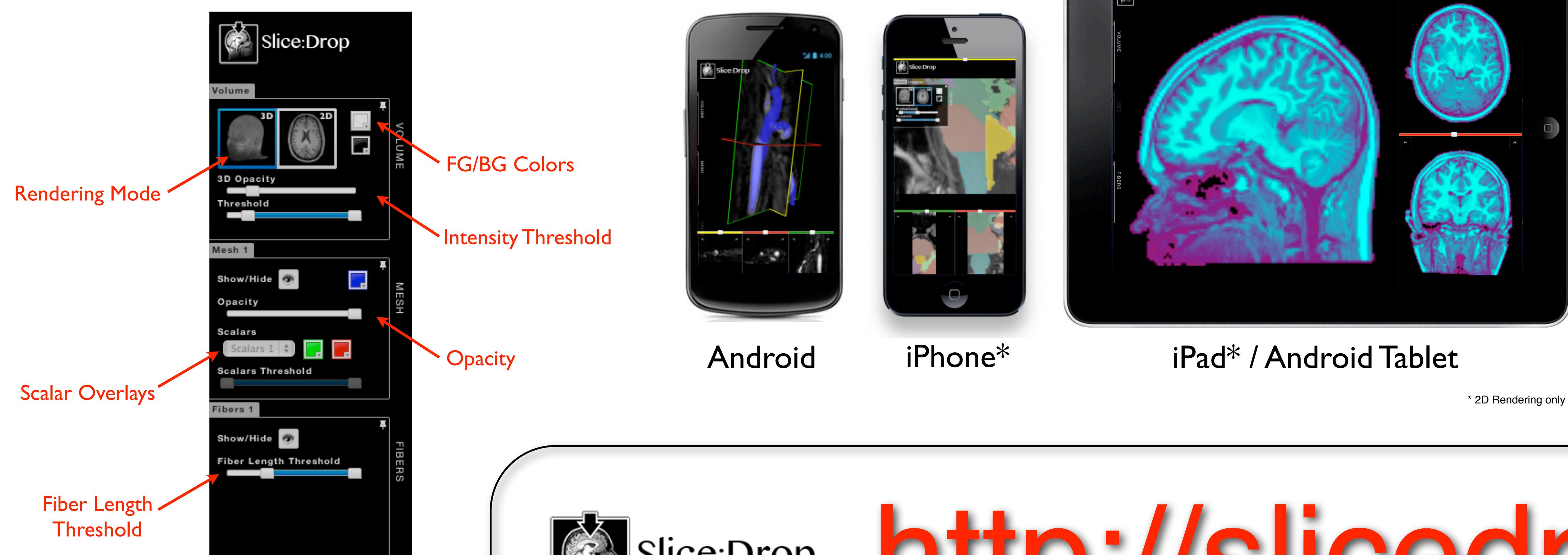


## File Formats

- DICOM
- NIfTI
- MGH/MGZ
- NRRD
- VTK PolyData
- Freesurfer
- STL
- TrackVis
- Color Tables
- Scalars

## Streamlined UI

## Multitouch Support



<http://slicecdrop.com>

## Future

- Data hosting / Data sharing
- Collaborative viewing / Scene sharing
- Open Data Directory

## Awards

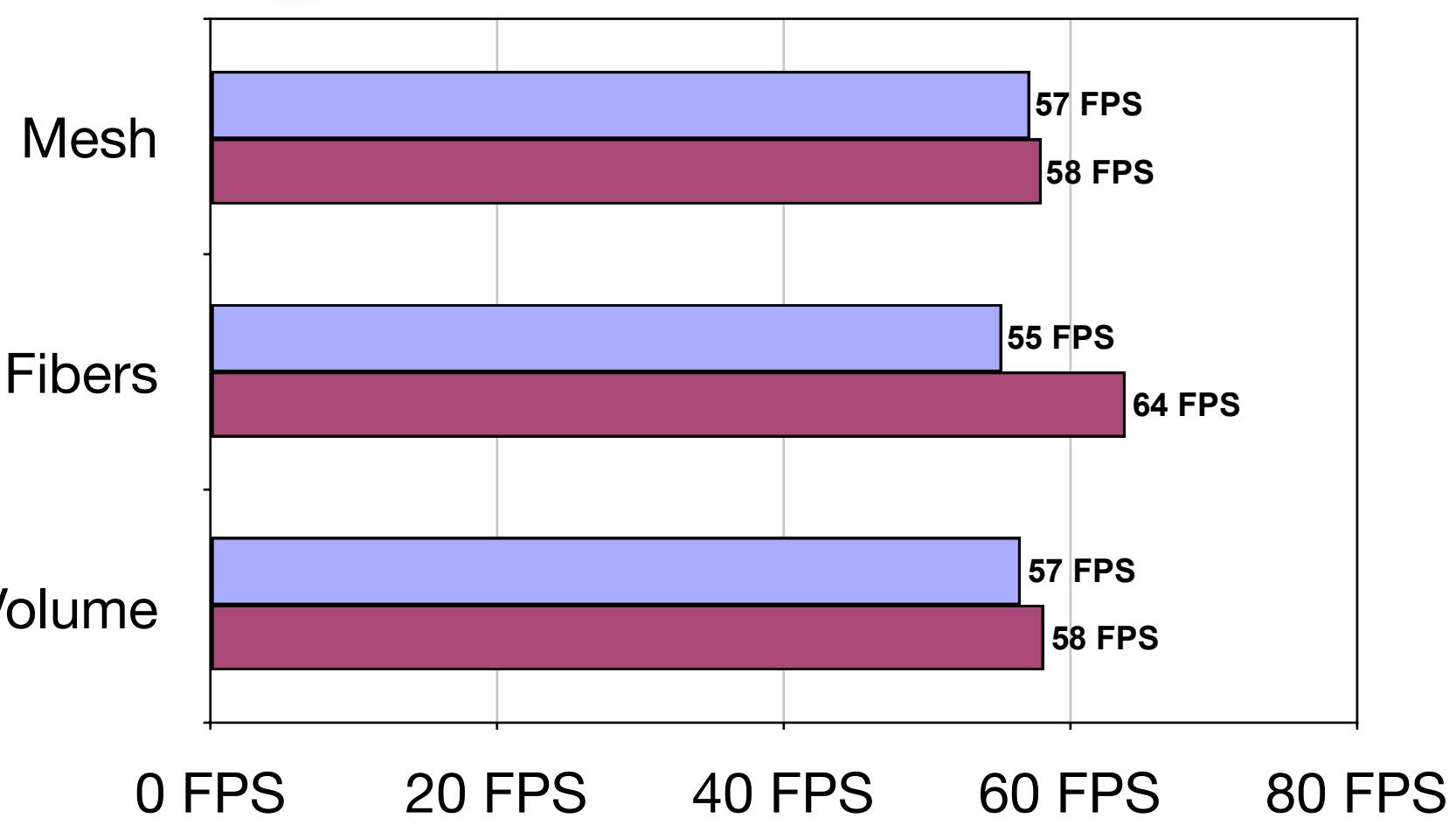
[visualizing.org](http://visualizing.org)  
Call for Submissions for  
VisWeek 2012



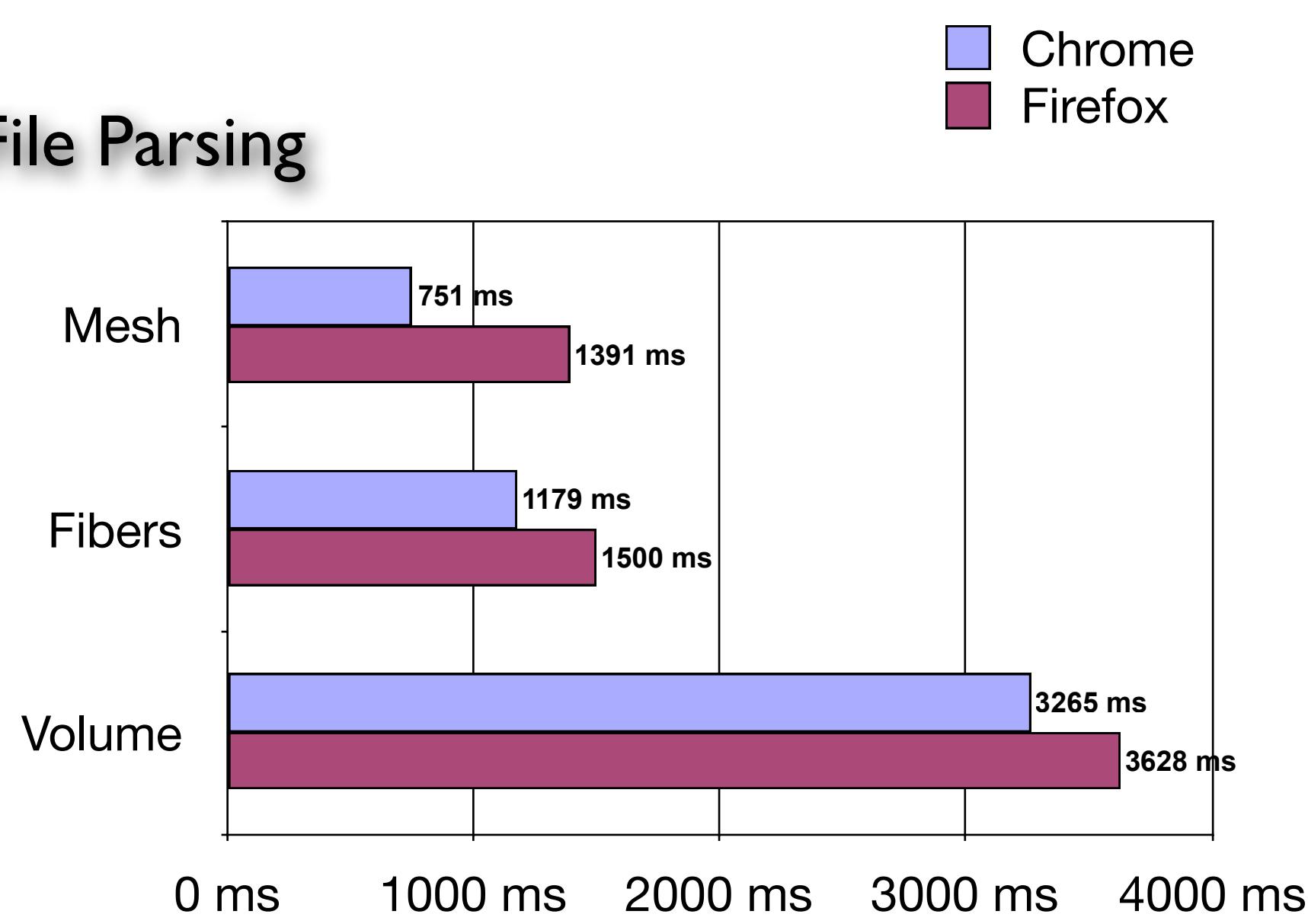
Mozilla Dev Derby  
June 2012

2nd Place

## Rendering



## File Parsing



Characteristics of the used data sets averaged over 10 for each type. Not applicable measures are marked as 'n/a'.

Type	File Size	Objects	Vertices	Voxels	Triangles	Lines	2D Textures
Mesh	6.38 MB	1	810457	n/a	270152	n/a	n/a
Fibers	6.89 MB	1	1124727	n/a	n/a	20843	n/a
Volume	19.7 MB	1308	9161	9843123	1308	2617	654

## References

- [1] WebGL Specification, Khronos Group 2012, <http://www.khronos.org/webgl>  
[2] Ginsburg D. et al., Realtime Visualization of the Connectome in the Browser using WebGL. 4th INCf Congress of Neuroinformatics 2011, doi: 10.3389/conf.fninf.2011.08.00095  
[3] Kelc R., Zygote Body: A New Interactive 3-Dimensional Didactical Tool for Teaching Anatomy. WebmedCentral ANATOMY 2012;3(1):WMC002903

