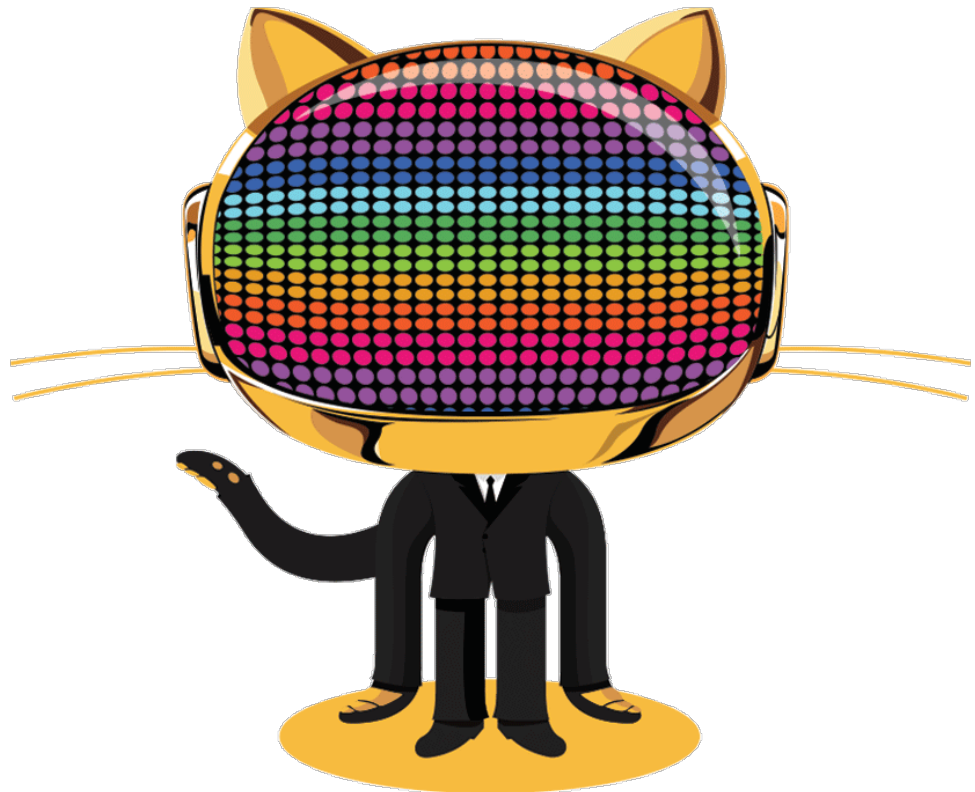


Distributed Versioning of Spatial Data

David Todd

June 30, 2015



The Problem

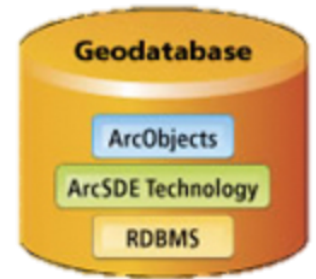
Managing geospatial datasets over time in a multi-user or multi-organization editing environment is...

complex.

Tools

Old Style Tools

- ArcSDE Versioning [1]
- Oracle Workspace Manager [2]



New Style Tools

- git / Github [3][4]
- GeoGig, formerly GeoGit, now Versio (?) [5]





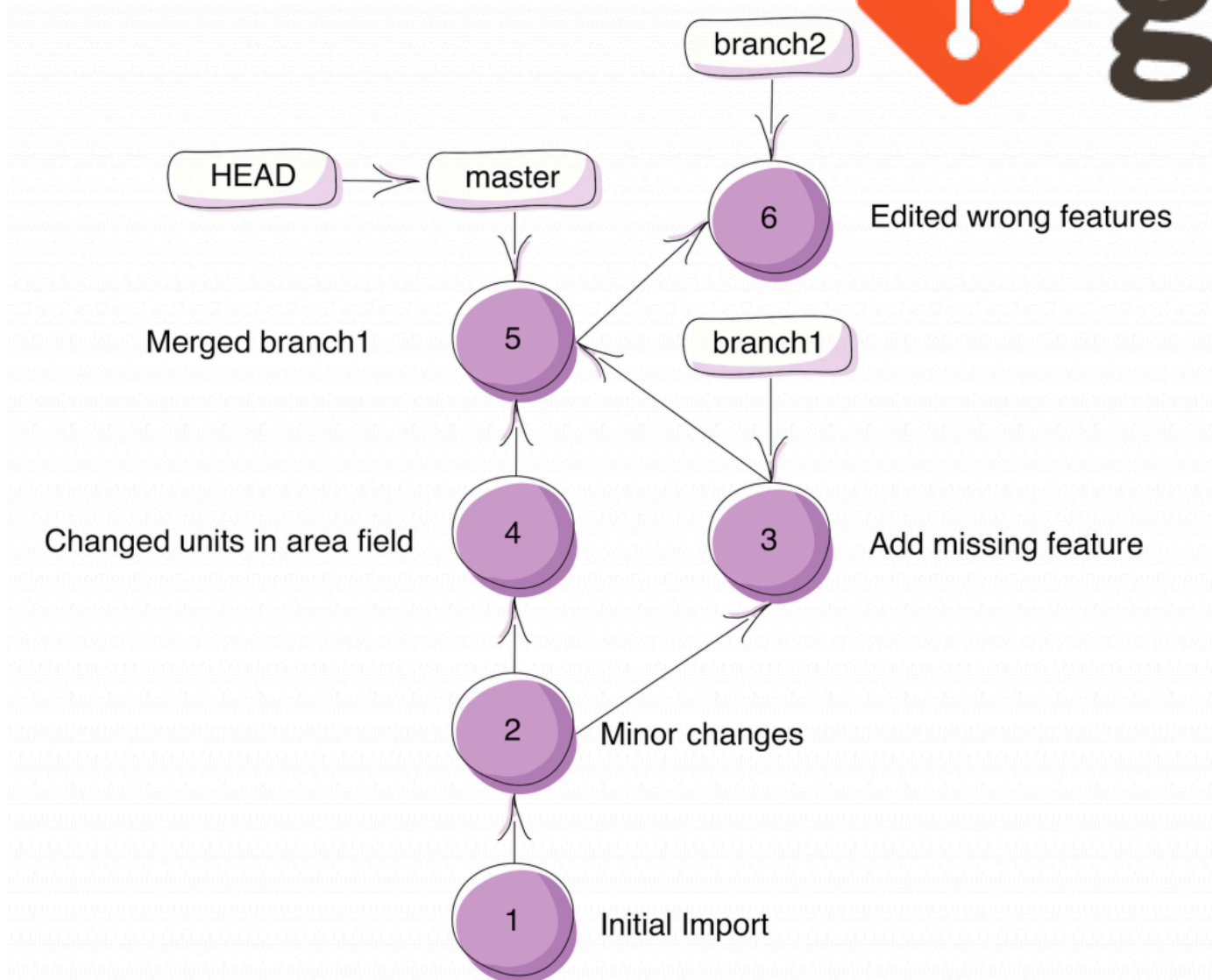
What is Git?

- Distributed Version Control System (DVCS)
- Peer to peer approach – no central source
- Mostly used for managing source code
- add, commit, branch, merge, push, pull

git



git



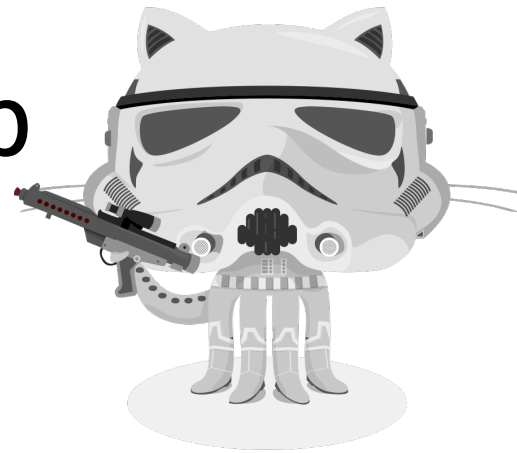
Github



What is Github?

- Collaborative code hosting
- Push/pull code repositories using Git
- Supports viewing GeoJSON as map
- Visualize file changes
 - Who
 - What
 - When

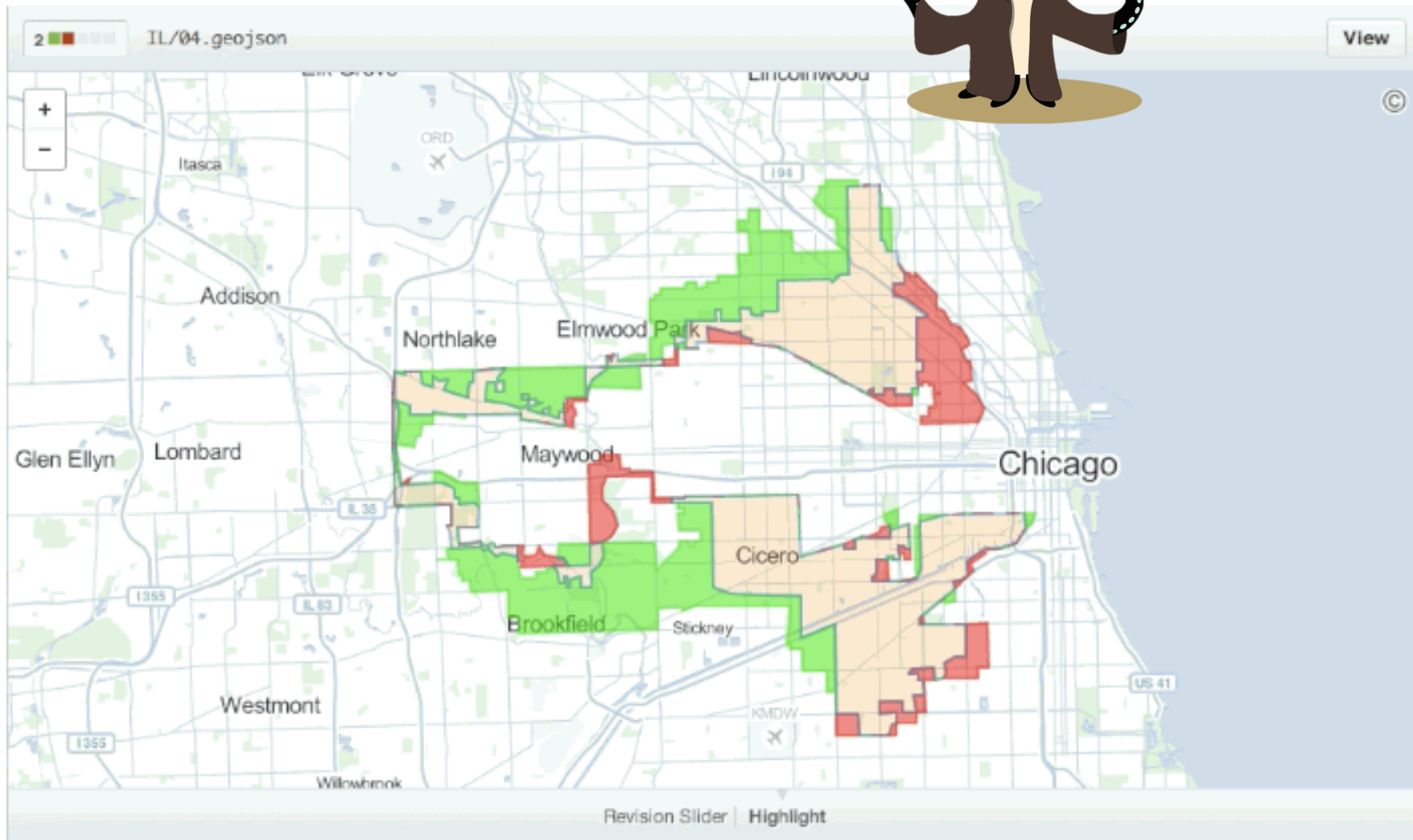
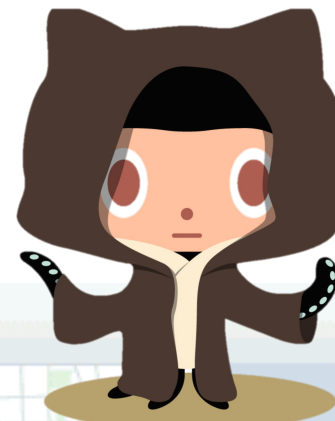
Github



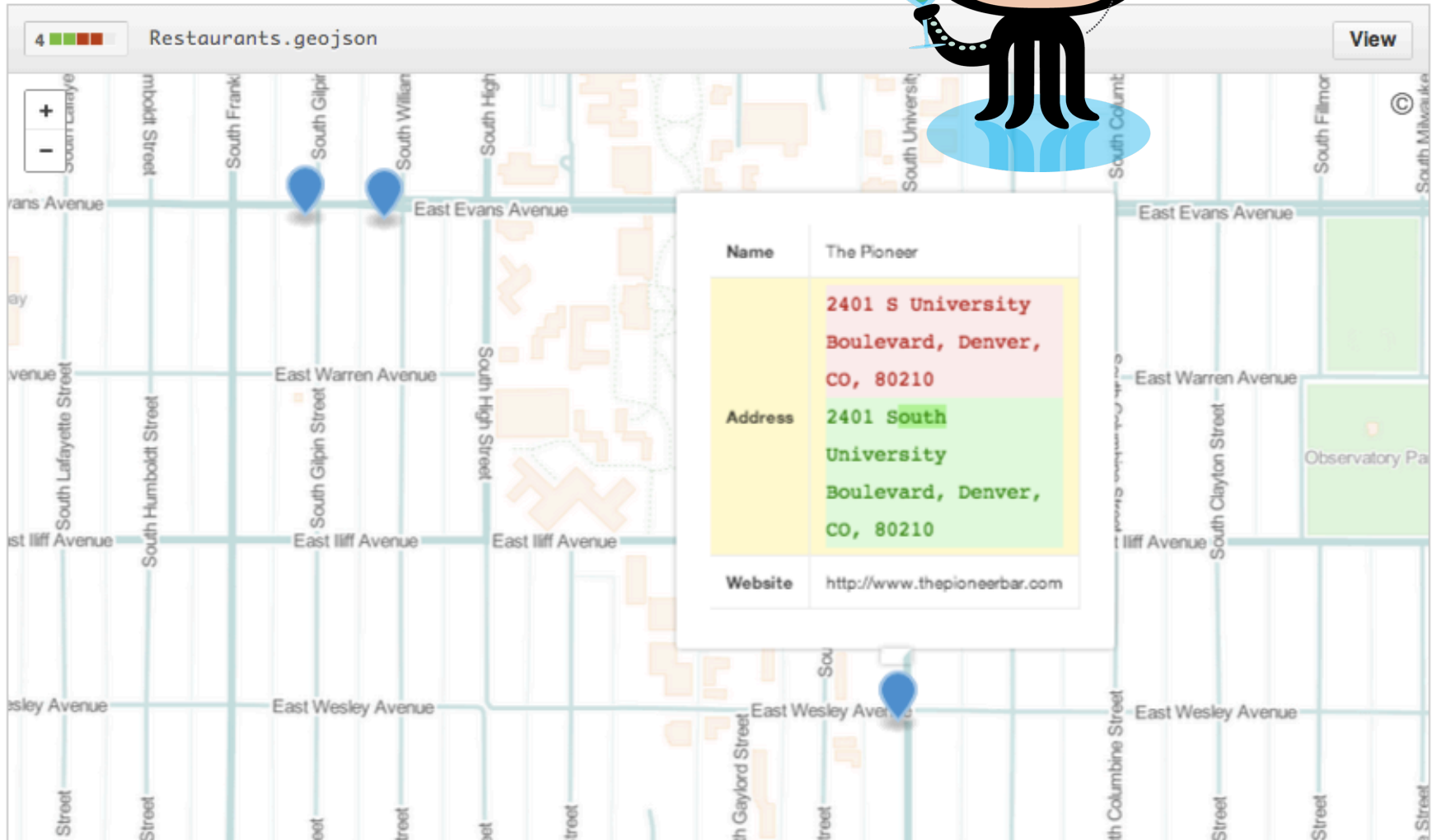
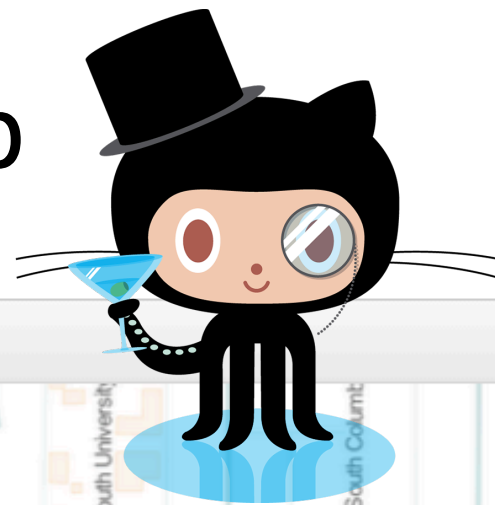
Limits:

- 10 MB file size
- Renders only GeoJSON or TopoJSON

Github



Github



GeoGig



What is GeoGig?

- Distributed Version Control System (DVCS)
- Built to act like Git
- add, commit, branch, merge, push, pull, etc.
- Import data – shp or spatial databases

Footnotes

- [1] <http://www.esri.com/software/arcgis/arcade>
- [2] <http://www.oracle.com/technetwork/database/enterprise-edition/index-087067.html>
- [3] <https://git-scm.com/>
- [4] <https://github.com/>
- [5] <http://geogig.org/>