# MINECRAFT ST LOUIS

GO CRAZY FOLKS!

# Welcome to Minecraft!

- Explore St. Louis in the world of MineCraft!
- Build another Arch!
- Tie up traffic on Highway 40 with Construction!
- Punch a Red Wings fan in the face! (As a Zombie.)
- Watch out for Creeper Cubs Fans!
- Be awesome!

# Things we didn't have time to cover in a week

We started working on this last week so we had to make some shortcut. So the following items didn't make it.

- How to build The Arch in Minecraft…accurately.
  - Jason was so looking forward to it!
  - When else could he post something like this to describe the side view of the Arch's structure.

$$y = A\left(\cosh\frac{Cx}{L} - 1\right) \Leftrightarrow x = \frac{L}{C}\cosh^{-1}\left(1 + \frac{y}{A}\right)$$

$$\text{With } A = \frac{f_c}{\frac{Q_b}{Q_t} - 1} \text{ and } C = \cosh^{-1}\frac{Q_b}{Q_t}$$

  - Breshenham Line-Drawing Algorithm. (Someone forgot to add Error control to their algorithms. It's a long story about a runaway computer program.)

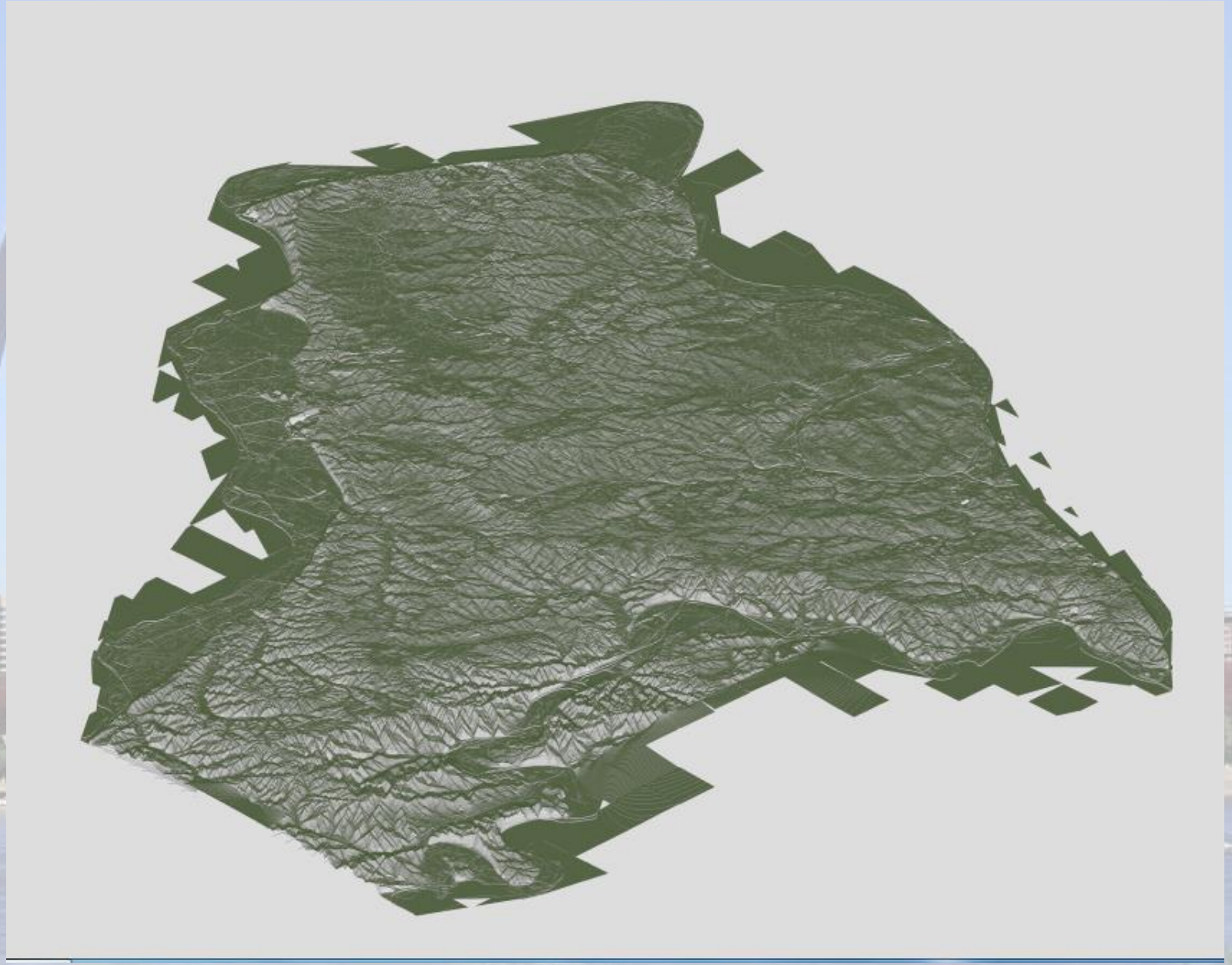
# Things we didn't have time to cover in a week

- How to use FME to do this yourself. (Sure you can Google it, but there's always room for better interpretation, especially if it can be done in ten minutes or less.)

Sure enough, there will be a director's cut version of this presentation posted on our github (http://opendata.github.io/minecraft-stlouis/)

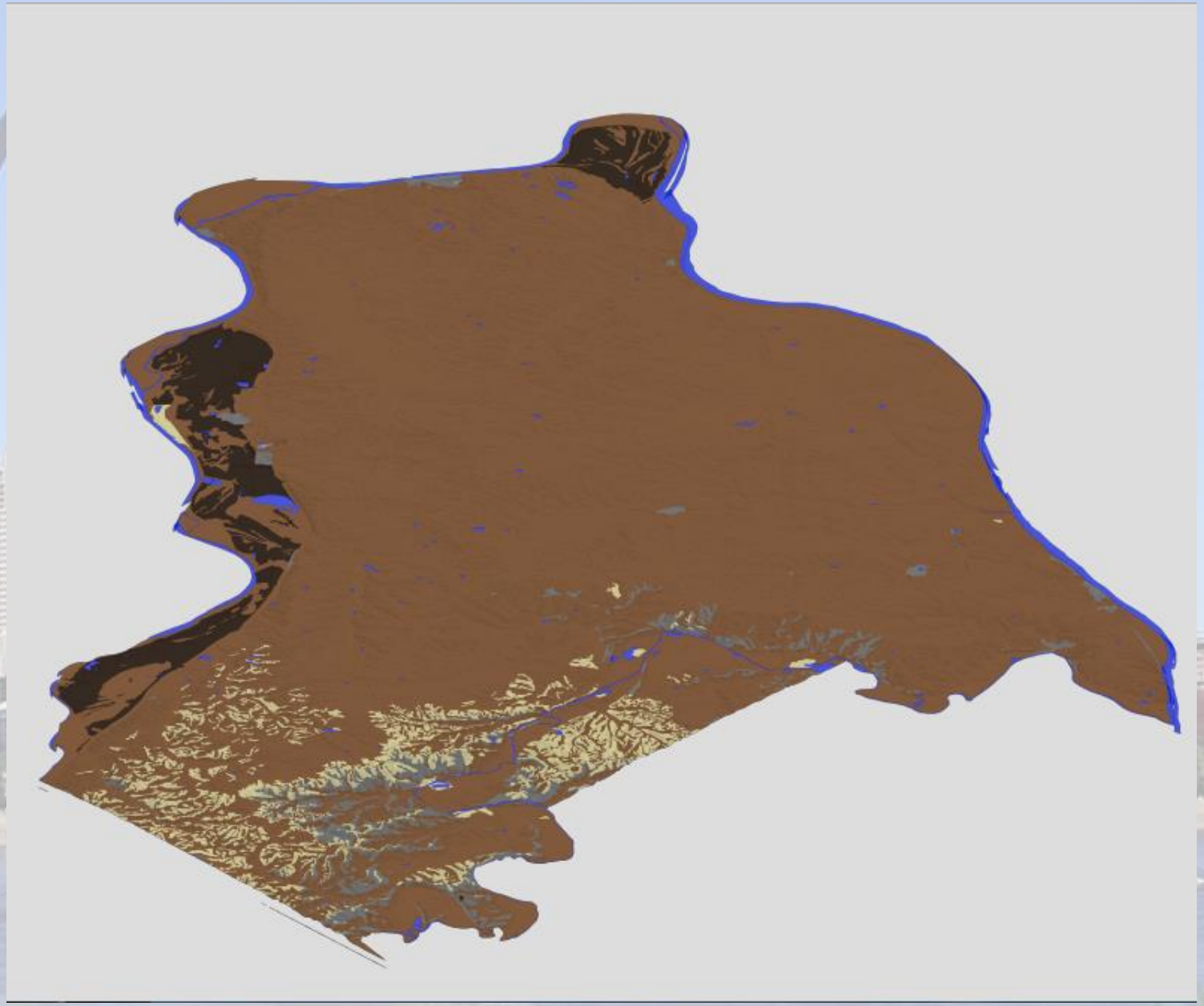
# In the beginning…

Geographic information System (GIS) data was rendered into a program called FME.



# Clean up!

This data was then cleaned up and geological data was added as well as most of the rivers and streams.



# Where are the buildings?

- St. Louis was originally nicknamed the “Mound City” because of the many artificial mounds left by the Native Americans that used to call this area home. (The were some smart folks!)
- It wasn’t until after the Gateway Arch was constructed, that we became the “Gateway City” or “Gateway to the West”.

- Like in any Minecraft game, there are no buildings.  It’s quite the DIY project. And there is no wrong way to do it.
- Build your own Arch!
- Rebuild some of the ancient mounds!
- Build Metrolink into St. Charles County (or at least Bridgeton or Chesterfield).
- Or make it in your own image.

# Custom Skins!

**Steve!**

- Cardinals Fan Steve
- Blues Fan Steve

**Mobs!**

- Cubs Fan Creeper
- Blackhawks fan Skeleton
- Red Wings Fan Zombies
- Rams Fan Endermen

# Consider the technology

**1965**

- Computers were the size of large cars
- Slide Rule
- Calculating coordinates by hand to draw charts with precision.

**2015**

- Computers are becoming smaller than most car keys
- Google
- Microsoft Excel

# Who’s Awesome?

You’re Awesome!

# TODO LIST

- TODO: Randomize the word art (like in the game)
- TODO: More pics of modded mobs

# Sources

- https://github.com/OpenDataSTL/minecraft-stlouis
- http://minecraft.wikia.com/wiki/Minecraft_Wiki
- http://www.dafont.com/minecrafter.font (this fon’t has no punctuation!)
- http://www.dafont.com/minecraftia.font
- http://rrslideshow.com/jdemike/v/mhinsdale/mhinsdale_023/mhinsdale_027/002+St+Louis__+Gateway+to+the+West.jpg.html