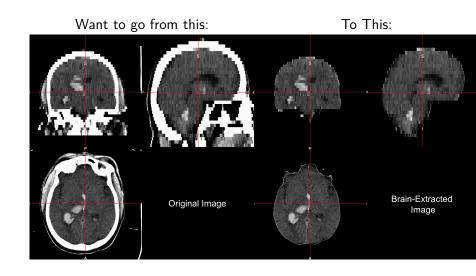
"Vision Without Execution is Delusion" Thomas Edison

John Muschelli

December 7, 2015

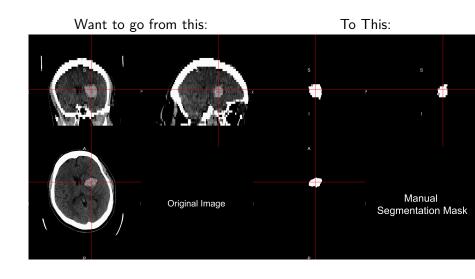
CT Skull Stripping Goals



CT Skull Stripping How?

- Use stuff already out there for MRI
 - ▶ Brain Extraction Tool (BET), with some additional steps
- Package it in R
 - http://bit.ly/CTBET_RCODE
- Put code on Github (Bash code)
 - http://bit.ly/CTBET_BASH

Hemorrhage Segmentation



Hemorrhage Segmentation: How

- Make a bunch of predictors
 - ► Logistic Regression!
 - ▶ Random Forests!
 - ► LASSO!
 - ► GAM!
 - Find out what works!
- Make a Shiny App
- http://162.129.13.127/ich_predict/
- ▶ Make it easy for people (clinicians) to use

Overall

- ▶ Find simple methods that work
- Features matter
- ▶ If other people made something that works, try that first