ZOMBIE DATA WAREHOUSE
Application Training

KEEP CALM

RIAK

BACKGROUND

The zombie apocalypse has begun. The CDC has collected DNA samples and demographic data from the first 1 million humans infected in the USA. The CDC has turned to you for help storing and analyzing this data.

MISSION

Construct a highly-available, fault-tolerant, redundant data storage application for the CDC's epidemiological data on zombies. Create an API to find out how many infected people are near you. Plot the infections on a map to see if there are geographic clusters. Create an API to test whether a submitted DNA sample will result in acute zombielepsy. Remain calm. The human race is depending on you.

RESOURCES

*) data.csv [162MB zip]
*) header.csv
*) programming language of your choice
*) Riak 1.3 source code

COUNTDOWN

Follow the timeline on the next page. Your facilitator will moderate topics, but you will be responsible for implementing the tasks. Improvise as necessary; don't tamper with zombie DNA samples.

	Topic	Task
Hour 24	Introduction	Inspect Data Set
Hour 20	Operation	Begin Data Import
Hour 16	Map/Reduce, 2i	Optimize Stack
Hour 12	Search, Backends	Locate Nearby Infections
Hour 8	Application Patterns	Plot Geo Heat Map
Hour 4	Dist Data Structures	Test DNA for Zombielepsy
Hour 0	If alive, remain calm. Reinforce doors and windows, conceal any exposed brains, and wait for assistance.	