

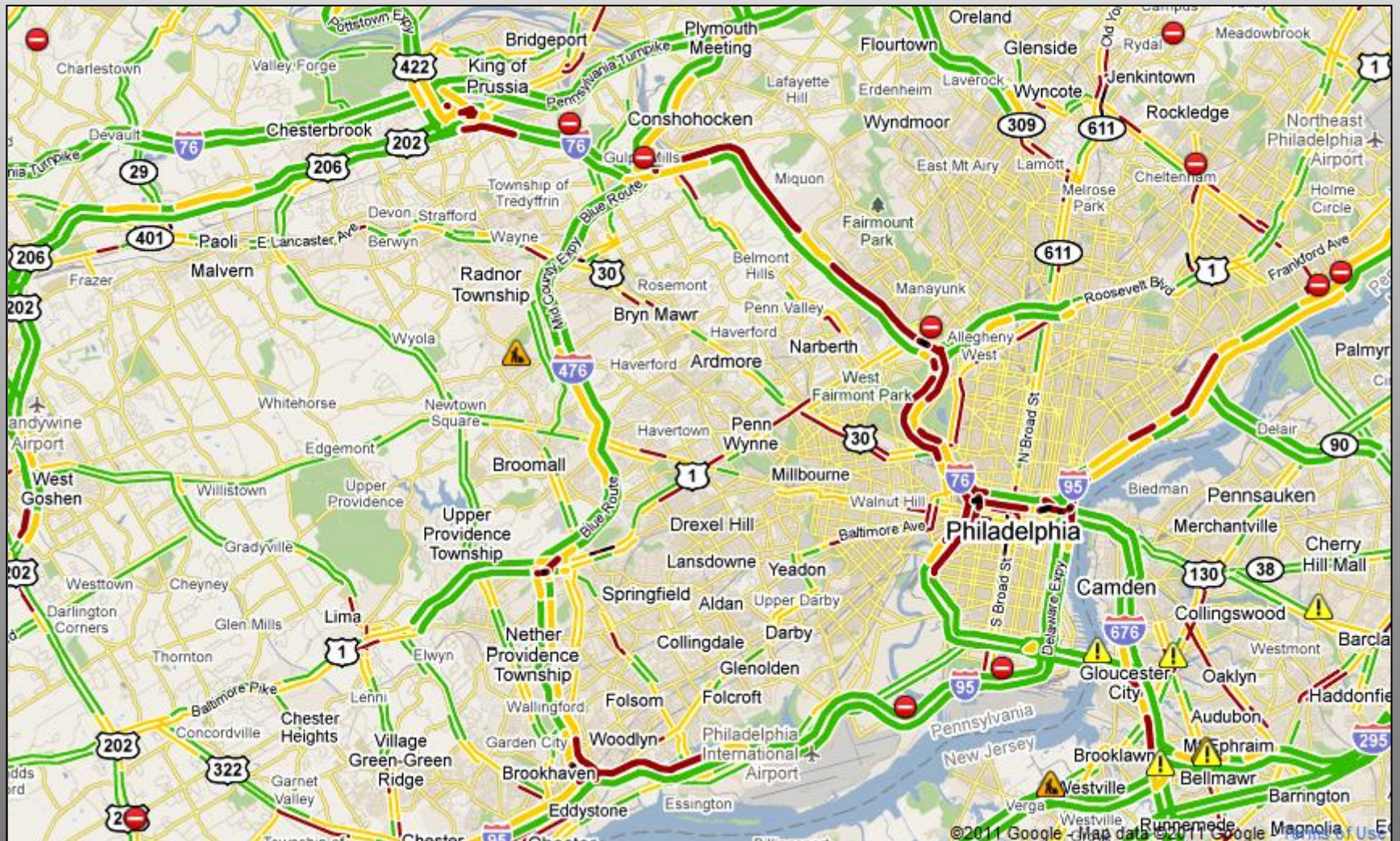
Representing change with point symbols

Elaine Guidero, Frank Hardisty, Robert E. Roth
Alex Klippel, Anthony Robinson, Alan MacEachren

AAG Annual Meeting
15 March, 2011



Overview









Overview

Preattentive performance of visual variables

Two research questions

Maps for emergency managers

ANSI INCITS 415-2006 Point Symbology Standard for emergency mapping

Federal Geographic Data Committee Homeland Security Working Group

OPERATIONS

	emergency medical operation		law enforcement operation		Department of Justice
	EMT station locations		Bur. Alcohol, Tobacco, Firearms & Explosives		Federal Bureau of Investigation
	ambulance		border patrol		police
	medical evacuation helicopter station		customs service		prison
	health department facility		Drug Enforcement Administration		secret service
	hospital		emergency public information center		Transportation Security Admin.
	hospital ship		emergency shelters		US Coast Guard
	medical facilities out patient		emergency staging areas		US Marshalls Service
	morgue		emergency teams		sensor operation
	pharmacies		emergency water distribution center		biological sensor
	triage		emergency food distribution center		chemical sensor
	emergency operation		fire suppression operation		intrusion sensor
	emergency collection evacuation point		fire hydrant		nuclear sensor
	emergency incident command center		other water supply location		radiological sensor
	emergency operations center		fire station		



Background

Best possible variables for ordinal data

Background



Background



Background



Background



Background



Background



Background





Background

Best possible variables for ordinal data

What about psychology?

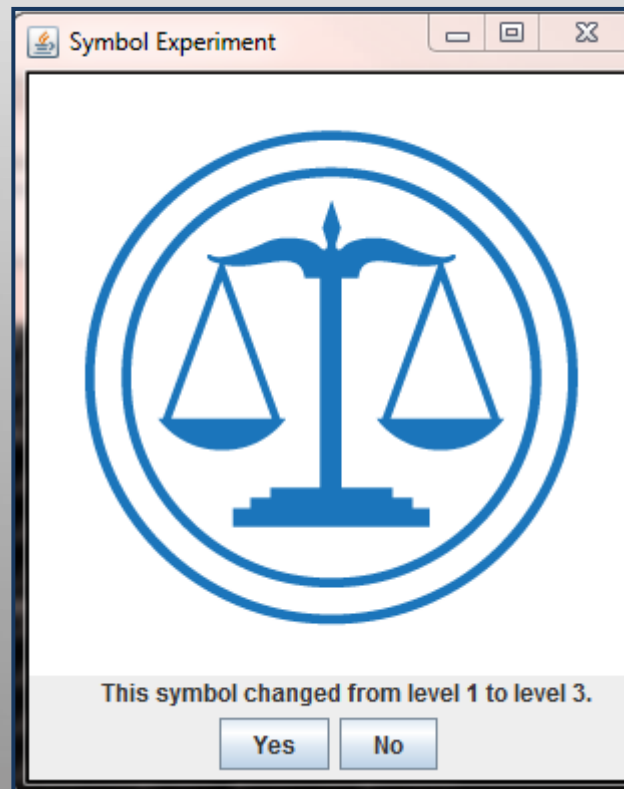


Experiment method

Parameters: reaction time and accuracy

The numbers: 5, 7, 504

Experiment method





Experiment method

Parameters: reaction time and accuracy

The numbers: 5, 7, 504

Pilot study to full study

Possible problems



Further directions

More experiments with all variables

Culture and color

Event segmentation



www.geovista.psu.edu

