

Erick Engelke Engineering Computing March 3, 2016

### Problems to Solve

- clickers in classroom want to replace with cell phones, tablets and laptops and free software
- faculty-wide surveys replace SurveyMonkey
- periodic surveys for IT and other service organizations - do we want to be associated with Survey Monkey?

### Considerations

- cell phones are very popular, our technology should embrace small form factor of phones
- should look good on all platforms
- should be consistent on all platforms no bias
- should be no additional cost to students, faculties
- should be small and fast enough for Cell or Wifi
- ability to revisit/change answers until a deadline

### More Considerations

- ability to specify a survey password (eg. announce in class)
- ability to set start and end date/time
- ability to specify groups (active directory)
- summaries in-class on cell, and spreadsheet
- ability to specify a URL leading directly to survey

### Version 1

- met most of the considerations, but a little bit sluggish and plain-looking
- was used by about 25 professors
- showed potential, feedback for improvements
- Eng.Dean's office wanted to do a big survey

# Version 2 - Feb. 2016

- rebuilt to use advances in last few years
- faster, prettier, more refined, very professional
- intuitive student interface
- greatly improved the administrator's interface too
- open to all UWaterloo employees to create surveys

### Overview

- each page is a *slide* with a question and possible answers
- four types of slides
  - single choice answers
  - multiple choice answers
  - text answers (harder to do on cell phones)
  - no answer useful for section headings

# Compatibility

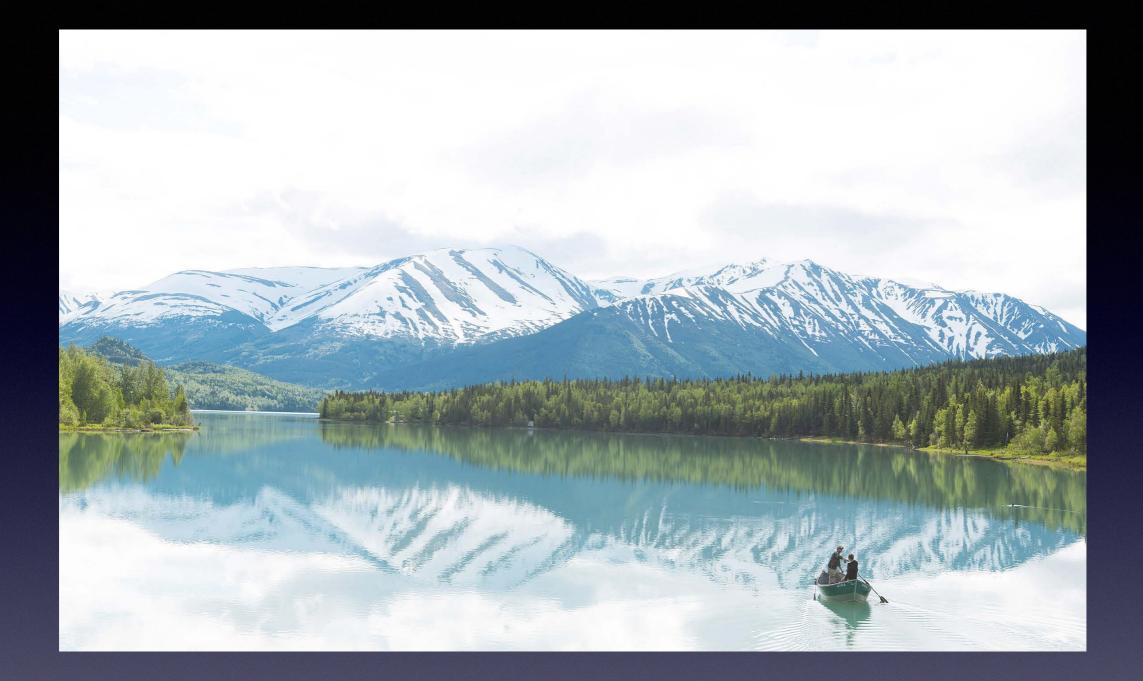
- all modern JavaScript capable phones (iPhone, Blackberry 10, Android tested)
- all popular web browsers on Mac and PC tested
- outputs CSV for Excel, OS/X Numbers, etc.

# Network Considerations

- Single Web Page loads once, about 1 MB download including graphics, and a kilobyte per question
- modest network requirements
- fast on Cellular and Wifi networks
- current answer saved on each page change, in case technologies break, or time limit exceeded
- may specify survey in URL

# Faculty/Staff

- survey creation ability for all Waterloo employees
- training video available on YouTu.be
- onscreen instructions and intuitive interface
- their input has been essential for version 2



#### Demo

A demo is worth a thousand words... if it works