

Esri International User Conference | San Diego, CA Technical Workshops | July 2011

Poll Maps: Concept, Planning, Design and Implementation

Alex Yule, Jim Herries, Mamata Akella, Kenny Ling

Esri Mapping Center Team

mappingcenter.esri.com

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once you review the results, you can document until you get the final proc more)	Recent Tweets		
Announcing the New Ocean Basemap			
The Ocean Basemap (Ocean_Basemap) map service was published	Switters Join the conversation		
recently on ArcGIS Online (services.arcgisonline.com, server.arcgisonline.com). This global map shows the sea floor of			

Poll Maps: Intro Jim Herries Oceanside Birmingham Escendido San Diego London Chuia

The Plan

- Intro
- Super Bowl FanMap
- Basketball FanMap
- Earth Day PollMap
- Configuring the <u>PollMap Template</u>

Super Bowl	Basketball	Earth Day
8 Weeks	2 Weeks	1 Week

Reviews

"This [infographic] created by the mapping team at <u>ESRI</u>, is pretty great..." Cliff Kuang, <u>Co.Design</u>

"OK, officially obsessed with this map: <u>http://bit.ly/ginFke;</u> reminds me of the Dooley/Muehlenhaus UFO sighting symbolization from NACIS 2010" <u>@rothzilla</u> Robert Roth

"Thank you for creating an online map that has some fun in it."

"This is really neat technology. Is this available for commercial use? I could see many applications for business." Bill Warneke, Malnove Holding Company

"Will be a very nice lead-in for students and the general public to start thinking about the power of maps and GIS, even after the game is over (and the Cheese Floweth)."

"As a promotional device the fan map is a great idea. Strategically, would that they had launched it a little earlier." Paul Pfeffer, YourPublicMedia.org



Hallway Conversations

- How do people represent their opinions?
- Often opinions are represented on the map at a scale and aggregation level convenient to the database
- Can the map itself encourage participation through better representation?



The FanMap/PollMap Project

- Long term goal: a template that allows people to put their opinions on the map
- Short term goal: build something for a specific event
- What kind of map and application would encourage people to vote on a topic?
- Can it be something they would pass along to others?





Facebook

🛒 StumbleUpon

More... (339)

O AddTh

Myspace

💐 Google

E Digg

🗶 Twitter

Favorites

Delicious

No. 11 Mail

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Keeping it Simple

simple

compelling content

ease of use

few moving parts

deadlines

realistic scope
 software options

thrash the requirements
 hardware options

deliverables

Stated Objectives

- Limited time (schedule driven)
- Find the breaking point of the servers, and adjust
- Full cartographic freedom no holds barred.

FanMap: Super Bowl Edition

0

Alex Yule, Mamata Akella

Building a Team



Photo credit: americanistadechiapas @ flickr

Building a Team

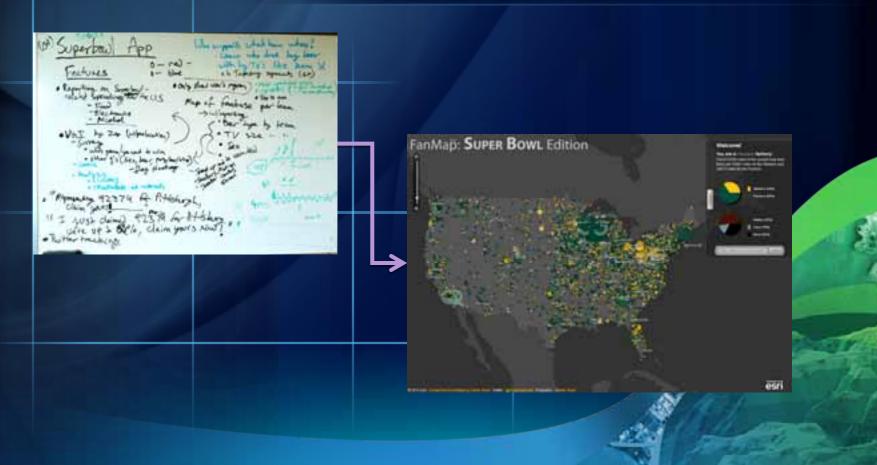
- Customer (Charlie Frye)
- Lead Developer (Alex Yule)
- Project Manager/Data Guru (Jim Herries)
- Cartographer/Designer (Mamata Akella)
- Sysadmin (Kenny Ling)
- Friends for testing, UI advice, moral support (Mapping Center Team & Co.)

(19) Superbowl App Who supports which team where? - Women who driet key beer with by TV's like team X a la Tapestry sogneuts (GP) 0-red-Features o- blue • Only shaw wer's ryron) most and sha pipe · Reporting on Sperbul-related spending/stur the US O TOP 10 zies Map of fambase per team - Food > W/reporting > W/reporting Ber type by team • TV size • Sex ted • Juden's constructions • Juden's constructi -Electronics - Michael · VGI by Zip (W/suboution) - Survey · whiles your /you wit to win · other of's (Sea, beer, rors/bur/alise) - comine - flag planting ... good · gent · recalculate at intervals Representing 92374 for Pittsburgh, claim yours _____ may (Ditts) Il I just dained 92374 for fit-stary, 92374 · Twitter tracking

Super Bowl FanMap: Conceptual Planning

- Audience: General Public (sports fans)
- Functionality:
 - Vote submission
 - Vote display
 - Vote reporting
 - Geolocation
- Look and feel: Dark, minimalist slate basemap with slick UI
- Platform: Flex
- User load: Low with slight potential for virality
- Deployment target: Single rack server

Super Bowl FanMap: Production



Super Bowl FanMap: Aesthetics

Mamata Akella



Super Bowl FanMap: Basemap Design



- Less is more
 - Features
 - Labels
 - Color
- Supports better visualization of thematic content

Super Bowl FanMap: "Map Sandwich"



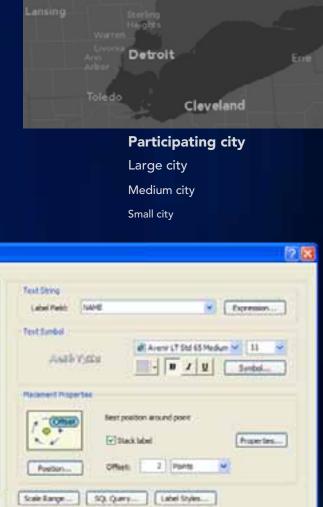
- How it works
 - The 'basemap' is split into two map services:
 - Reference (top)
 - Base (bottom)
 - Combined with thematic content (middle)
 - Client-side Votes layer

Super Bowl FanMap: Special Effects

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Summary....

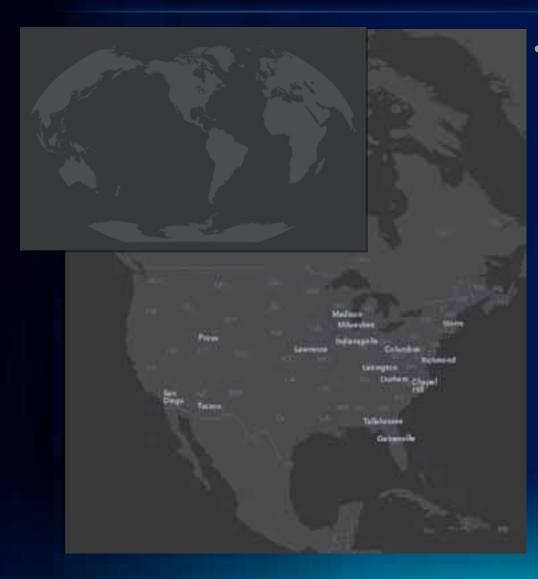


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Super Bowl FanMap: Special Effects



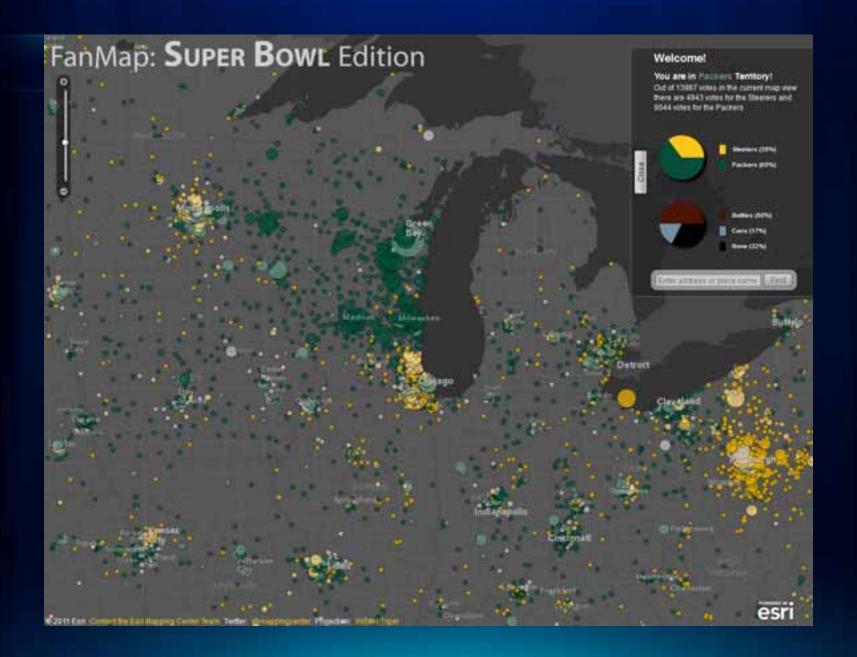
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- Winkel-Tripel
- Modified central meridian

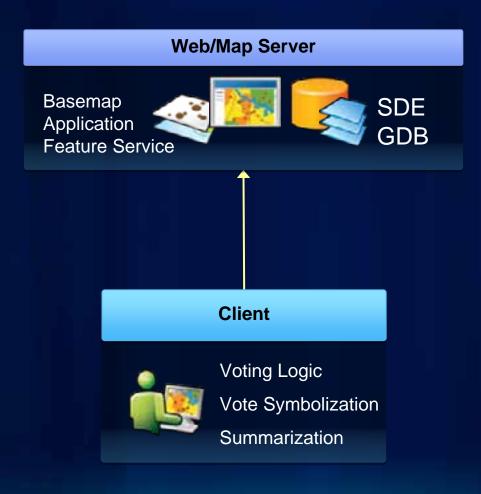
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Super Bowl FanMap Production: Web Client





Super Bowl FanMap: Architecture



Super Bowl FanMap: Vote Symbology



- Symbolized in the client
- Color
 - Classed, based on team colors
 - Transparent!
- Size
 - Number of total votes
- Outline
 - Better visibility for overlapping symbols

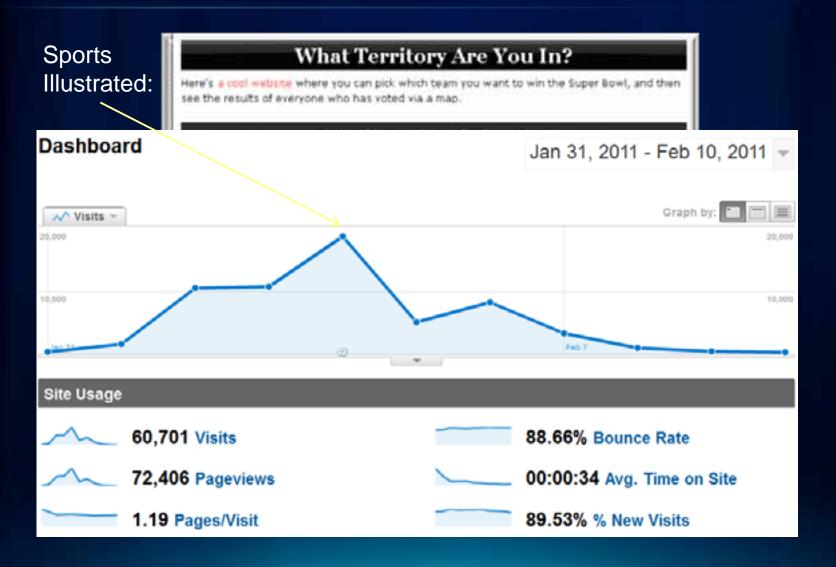
Super Bowl FanMap: Tech Vocab

• SDE

- Spatially-enables an RDBMS such as Microsoft SQL Server and enables access from ArcGIS clients
- Required for publishing editing-enabled services
- FeatureService
 - Type of data service that allows client to access and edit features
 - Allows editing if used with a FeatureLayer and ArcSDE



VIRAL: A nice problem to have



Super Bowl FanMap: Architectural Issues

- High Server Load
 - Slow response time for app, maps
- High Client Load
 - High number of features result in slow drawing, panning
 - UI lockup during vote summarization



Super Bowl FanMap Production: Vote Collisions



Photo credit: viriyincy @ flickr

Basketball FanMap: Demo

Alex Yule, Mamata Akella, Kenny Ling



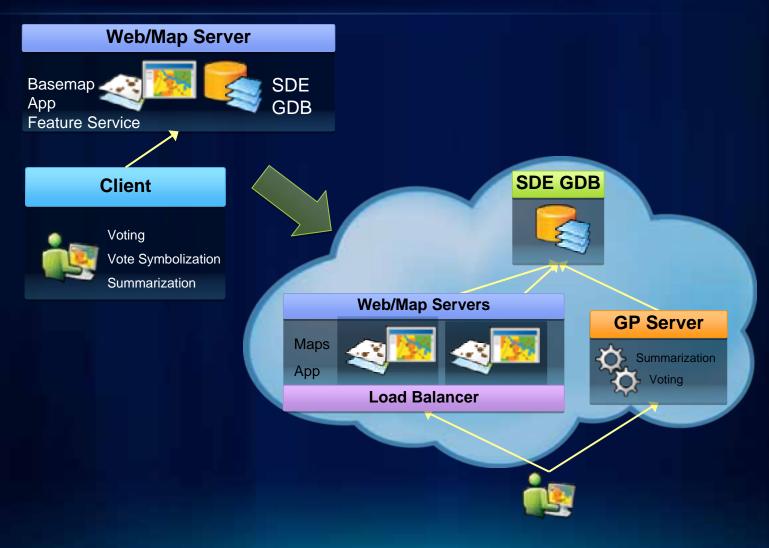
Conceptual Planning

- Audience: General Public (sports fans)
- Functionality:
 - Same as Super Bowl app
 - Configurability
- Look and feel: Dark, minimalist slate basemap with slick UI
- Existing codebase: Super Bowl FanMap
- Platform: Javascript
- User load: Moderate with potential for large viral spikes
 - 10 concurrent users
- Deployment target: 4-tier Amazon cloud

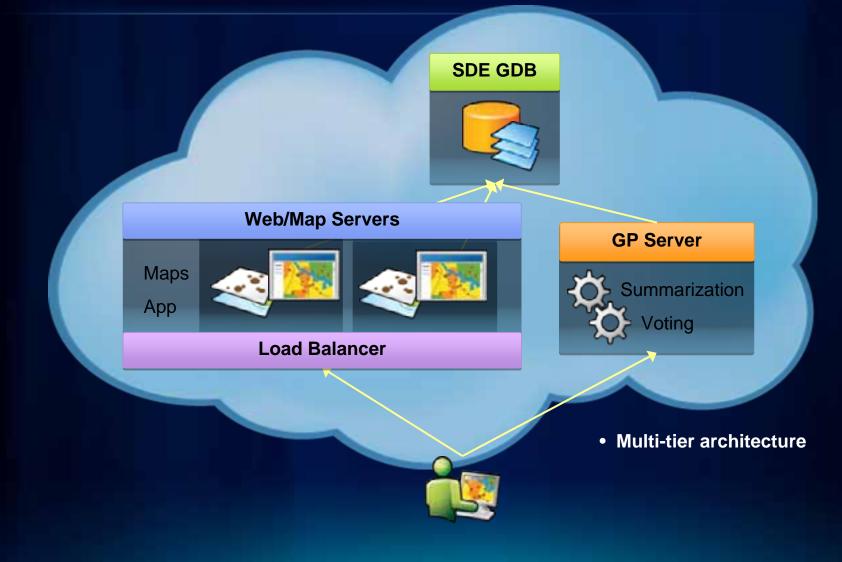
Basketball FanMap

- Architecture
- Production
 - Prototyping
 - Building
 - Designing
- Deployment

Basketball FanMap: Architecture



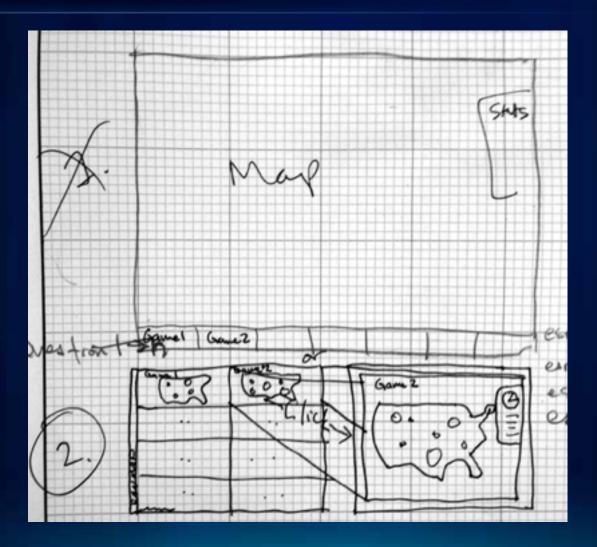
Basketball FanMap: Architecture



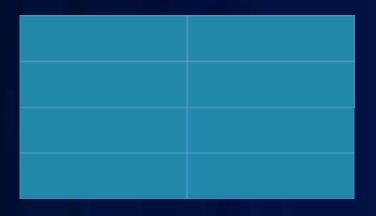
Basketball FanMap: Production – Server-side!

	Super Bowl	Basketball
Vote Symbology	FeatureLayer	Dynamic Map Service
Voting	FeatureService	Geoprocessing
Summarization	Client	Geoprocessing
Server / Client		

FanMap Production: Prototyping the UI



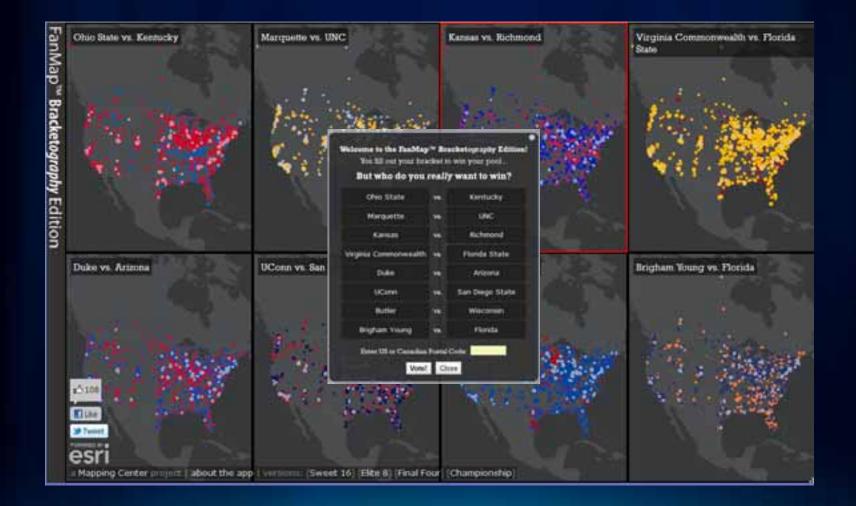
FanMap Production: Prototyping the UI











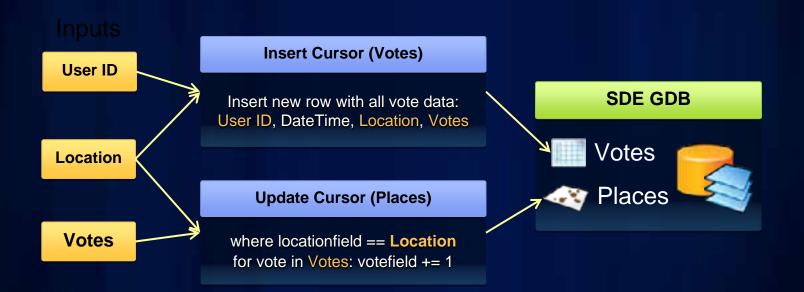


Basketball FanMap Prototyping: Voting

- Start with the highest risk functionality (voting)
 - Get that working, then move on
- **1.Mock out steps for vote service**



Basketball FanMap Prototyping: Voting Service



Basketball FanMap Prototyping: Voting

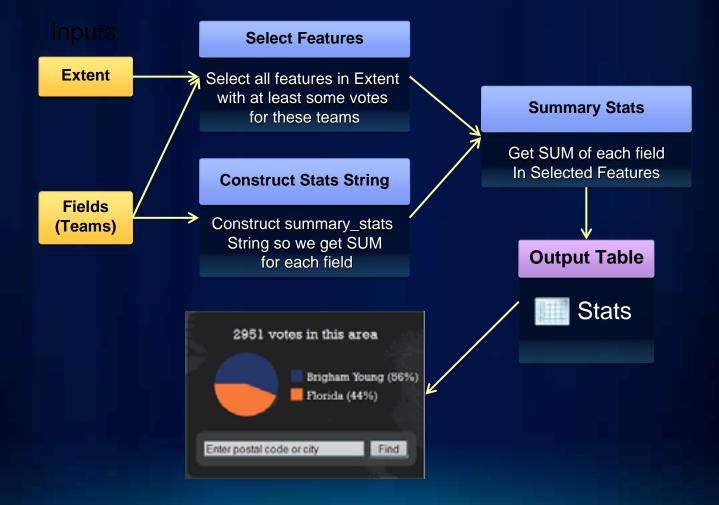
Start with the highest risk functionality (voting)

Get that working, then move on

1.Mock out steps for vote service
2.Test each step in ArcMap
3.Put steps together into script
4.Test in ArcMap as script tool
5.Publish and test as GP service
6.Integrate into App



Basketball FanMap Prototyping: Summarization



ulton County Dept. of Health and Wellness/District 3: Unit 2

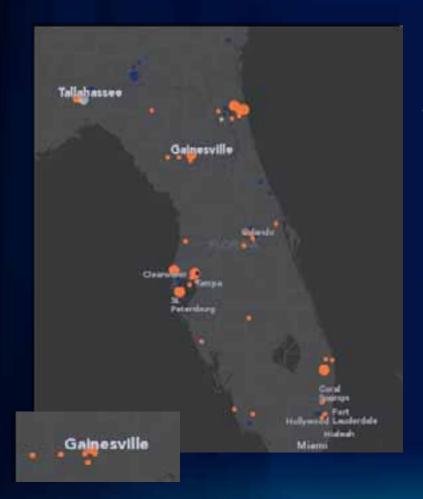
Salt

Basketball FanMap Aesthetics





Basketball FanMap: "Map Sandwich"



- How it works
 - The 'basemap' is split into two map services:
 - Reference (top)
 - Base (bottom)
 - Combined with thematic content
 - Votes (middle)

Basketball FanMap: Vote Symbology Basics



- Color
 - Based on each university's team colors
 - Gray = tied
- Size
 - Total number of votes
- Outline
 - Better visibility for overlapping symbols

Basketball FanMap: Vote Symbology Basics

Quantities > Graduated Symbols

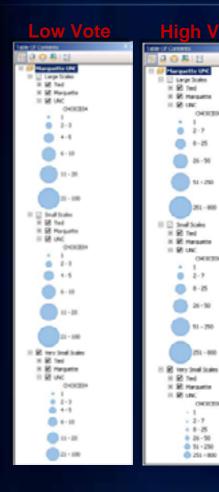
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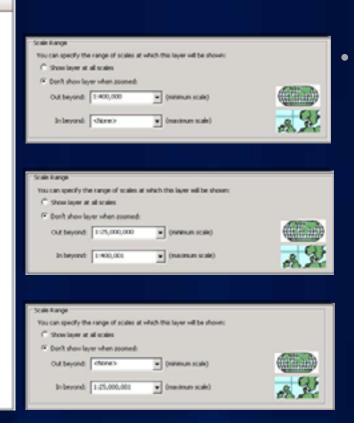
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Vote symbology - Multi-scale

- Varied by time period

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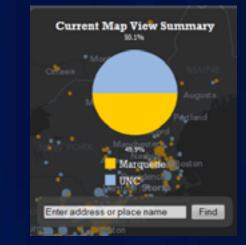
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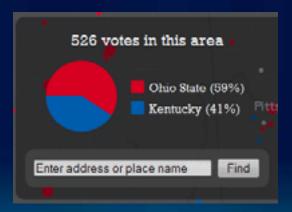


ITERATE!









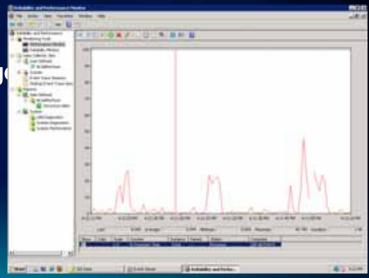
Basketball FanMap Deployment

Kenny Ling

• Why use it?

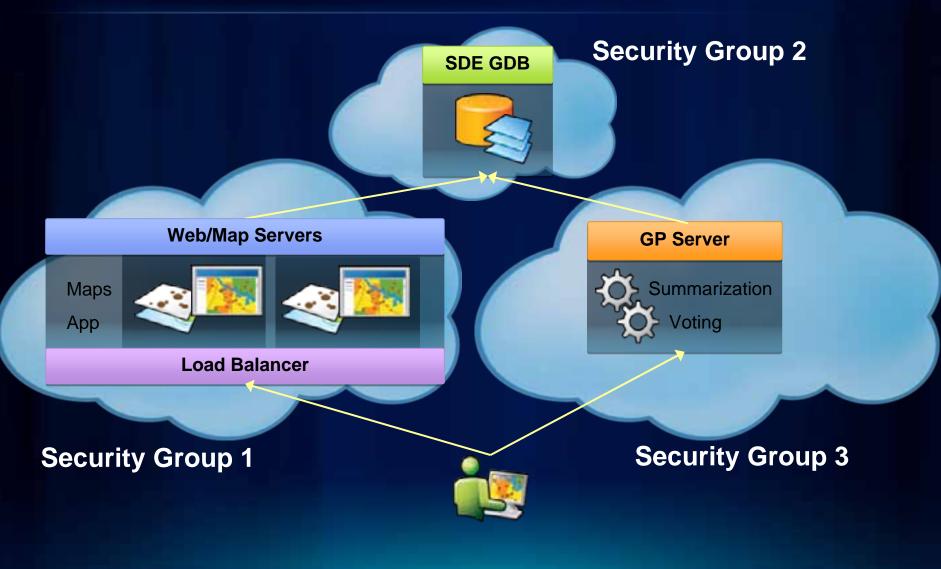
- Amazon Machine Images (AMIs)
 - No need for new hardware requests or software installation
 - Start up new machines or backup
- Data portability+reliability
 - Volumes
 - Snapshots
- Deployment
 - Higher configuration machines
 - Machine replicas

- Replicating your servers
 - Updating services
 - Load balancing
 - Failsafe in case Amazon servers in one region goes down
- Monitoring your services
 - Set up Performance Monitor logs
 - Track performance in Task Manage



- Things to be aware of:
 - Instances are inaccessible whilst creating images
 - Transferring your cache to the cloud may take a long time
 - Option: Cache in the cloud
 - Plan security settings/groups in advance
 - Security groups cannot be changed once instance is started





Part II: Using the PollMap Template

Jim Herries

FanMap \rightarrow PollMap: Birth of a Template

PollMap Application Template for ArcGIS 10



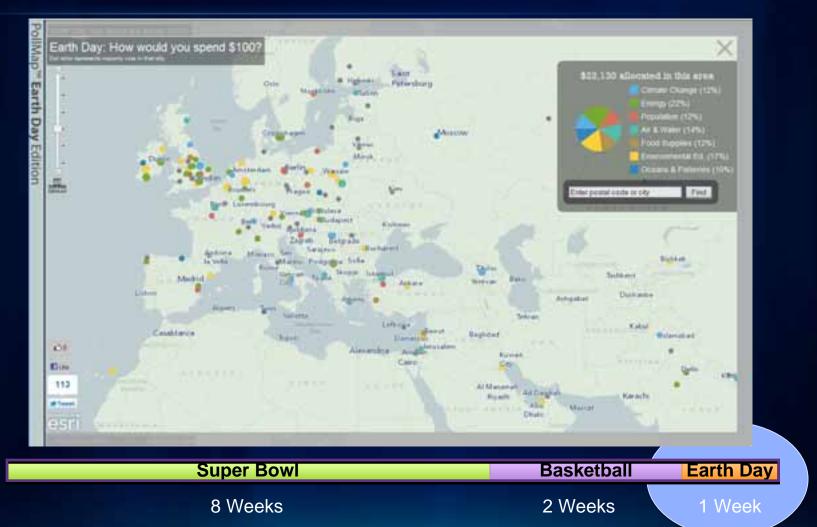
Web Mapping Application by MappingCenterTeam (last modified: April 28, 2011) ★★★★★ (5 ratings, 449 views, 58 downloads)



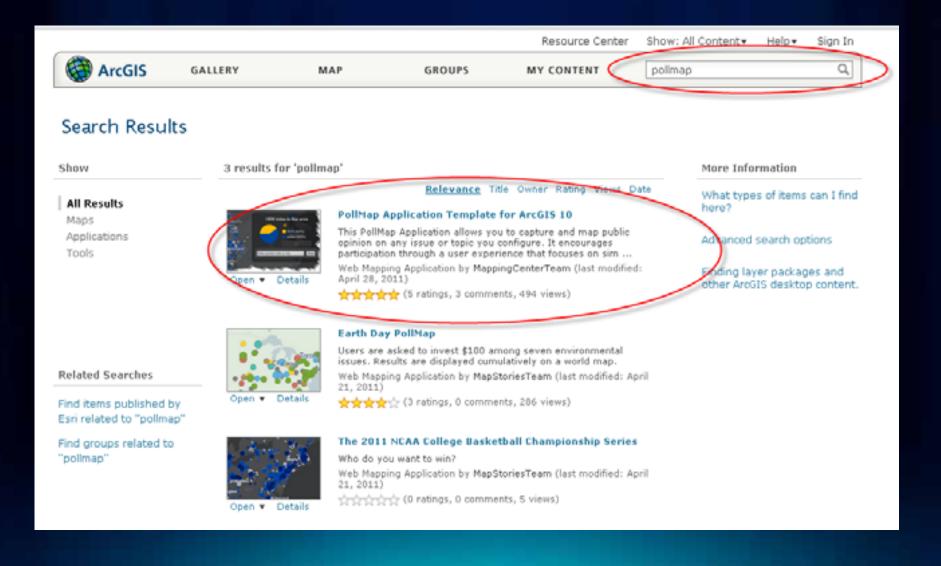
- What's Included
 - Application source code
 - Geoprocessing source code
 - Map service MXDs
 - Data for postal codes in the U.S. and Canada
 - URLs to basemaps you can use during development
 - Simple documentation

http://bit.ly/pollmaptemplate

Earth Day PollMap: the FanMap Goes Green!



Download the PollMap Template



Download the PollMap Template

- Download .ZIP file
- Unzip to a convenient folder
- Read the "Getting Started" document

Access and Use Constraints

URL	http://fanmap.esri.com/collegehoops
Code Attachmed	PoliMapTemplate.zip Download
Purpose	Code Sample
API	JavaScript
Tags	FanMap, PollMap, poll map, poll, public opinion, collegehoops, template, local government, sports, ArcGIS Server 10, web application, constituent engagement
Credits	Esri, Inc.
Size	1 KB

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Copy Application folder contents

- Open the Application folder
- Copy PollMap folder over to c:/inetpub/wwwroot (or equivalent)

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Set up you Question First in VoteWindow.html

- Getting the question right takes iteration
- This template is best for multiple A vs. B types of questions

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VoteWindow.html - Notepad
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  <!-- edit content in this div tag -->
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    welcome to the Esri PollMap
    cp class="prompt-title">
      It's simple.
    c/p
    which do you drink more often
    c/m
  </div>
  cdiv class="vote-form" dojotype="dijit.form.Form" dojoAttachPoint="voteForm">
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      <div class="vote-question-error-text" dojoAttachPoint="voteQuestionErrorText">
      </div>
    </d1v>
    <fieldset class="vote-location">
      <label dojoAttachPoint="locationLabelNode" for="locationInput"></label>
      <input id="locationInput" doioAttachEvent="onKeyDown:onLocationInputKeyDown" doioAt
class="location-input" dojotype="dijit.form.validationTextBox" required="true" size="5">
      </input>
    </fieldset>
    <div class="vote-buttons">
<button dojoAttachPoint="voteButton" class="vote-submit" dojotype="dijit.form.Butto
dojoAttachEvent="onClick:onSubmit">voteButton" class="vote-submit" dojotype="dijit.form.Butto
      <button class="vote-cancel" dojotype="dijit.form.Button" type="button" onClick="dij
('votewindow').dialog.onCancel(); ">Close</button>
<div class="loader" dojoAttachPoint="loader">
      </d1v>
    </div>
  </d1v>
  <div class="vote-error-message">
    <h2>We're sorry :(</h2>
    A problem occurred while submitting your vote.
    Try it again by refreshing your browser.
<button type="button" class="vote-ok" onclick="dijit.byId('votewindow').dialog.onCanc
  </div>
  <div class="vote-success-message">
```

Set up choices in the config.js file

Simple choices

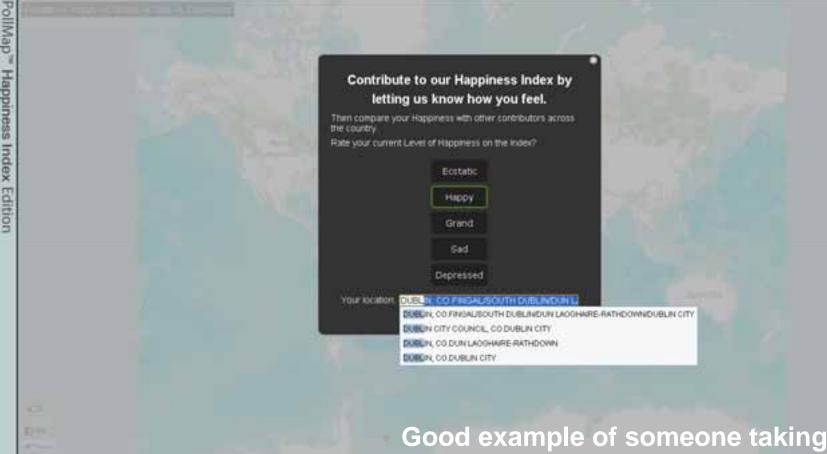
```
config.js - Notepad
File Edit Format View Help
on the map
    uidField: "COOKIE",
    // objects
    initialExtent: new esri.geometry.Extent({
        "xmin": -237856.
        "ymin": 2102950.
         xmax": 4397529.
        "ymax": 5234056,
"spatialReference": winkel
    defaultQuestionIndex: 0, // zero-based index referring to which question to show first
        // ideally you know your question and choices first and fill the choices in below, matching colo
symbology in MxDs
questions: [{
        mapService: "http://skyray.esri.com/arcGIS/rest/services/PollMap/guestion01_highvote/MapServer",
        active: true.
        values: [{
             label: "Bottled water",
            value: "CHOICE01"
            title: "Bottled water",
            color: ["#001C5A", "#001C5A"]
        ), (
             label: "Tap water",
            value: "CHOICE02"
            title: "Tap water"
            color: ["#005EAB", "#005EAB"]
        Ы
    }. {
        mapService: "http://skyray.esri.com/ArcGIS/rest/services/PollMap/Question02_highvote/MapServer".
        active: true.
        values: [{
            label: "Tap water",
            value: "CHOICE03"
            title: "Tap water",
color: ["#005EAB", "#005EAB"]
        }. {
             label: "Well water".
            value: "CHOICEÓ4"
            title: "well water"
            color: ["#F8B800", "#F8B800"]
        Ы
    3],
```

Set up maps and services in the config.js file

Follow the Getting Started document

```
🚽 config.js - Notepad
File Edit Format View Help
|/##
   @author yournamehere
// strinas
var
    winkel = new esri.SpatialReference({
     "wkt": 'PROJCS["World_Winkel_Tripel_NGS",GEOGCS["GCS_WGS_1984",DATUM["D_WGS_1984",SPHEROID
["WGS_1984",6378137.0,298.257223563]],PRIMEM["Greenwich",0.0],UNIT["Degree",0.0174532925199433]],
["Winkel_Tripel"],PARAMETER["False_Easting",0.0],PARAMETER["False_Northing",0.0],PARAMETER["Centr
96.0],PARAMETER["Standard_Parallel_1",50.467],UNIT["Meter",1.0]]'
});
var config = {
    appTitle: "PollMap",
version: "1.04",
     basemapTiledService: "http://fanmap.esri.com/ArcGIS/rest/services/wT_Slate_Base2/MapServer".
     overlayTiledService:
"http://fanmap.esri.com/ArcGIS/rest/services/WT_MM16_Ref_Overlay/MapServer",//"http://fanmap.esri
vices/wT_Slate_Reference4/MapServer"
    geometryService: "http://skyray.esri.com/arcgis/rest/services/Geometry/GeometryServer",
featureService: "http://skyray.esri.com/ArcGIS/rest/services/PollMap/Zips_winkel/MapServer/0"
    summaryService: "http://skyray.esri.com/ArcGIS/rest/services/PollMap/Vote/GPServer/Summarize"
     voteService: "http://skyray.esri.com/ArcGIS/rest/services/PollMap/vote/GPServer/vote",
     identifyservice: "http://skyray.esri.com/ArcGIS/rest/services/Zips_Poly_winkel/Mapserver/0",
     isGpAsynch: false, // are the services
     spatialReference: winkel,
     defaultExtent: new esri.geometry.Extent(-3280498,2158621,2995899,7065267,winkel).//new esri.d
2421346, 2645986, 2377676, 5683899, winkel), // lower 48
     fullextent: new esri.geometry.Extent(-8424404,1725683,7856071,8261354,winkel),//(-
9510421.1813739.8629002.8711416. winkel).
     // formatting
labelopacity: 1, // set to 0.8 when vote count is low, set to 1 as dots and labels start to s
on the map
     uidField: "COOKIE",
     // objects
```

Sample from Ireland



Good example of someone taking the template, then customizing it further.

Sample from Ireland



#6.117.120 Webdingtown

Wrap-up

- Fun project
- Tapped into something
- Touched on many things:
 - Cartography
 - User experience
 - Intelligent maps
 - Social media interaction
 - Geoprocessing services
 - Cloud
 - Flex and JavaScript

• A team to pull it together, under deadline

Thank You!

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- Mapping Center Team
 - http://mappingcenter.esri.com
 - twitter: @mappingcenter
- Feedback
 - <u>http://www.esri.com/sessionevals</u>