



RAAW

Research Alliance for Accessible Voting

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Demonstration/Training Research

- Demonstration/training conducted in 6 states coordinated by the State AT Program
- AVS demo/training was on machine that participant voter would use at their polling place
- Demo/training was done by AT specialists with experience in conducting AT demos and familiarity with the AVS
- **506** demo/trainings conducted –
 - vision – 64%, motor – 27%, intellectual – 16%, hearing/speech/other – 8% to 4%
 - seniors – 47%, middle aged – 36%, young adults – 17%

Data Results

- Demo/training time needed for voter to become independent using access features ranged from 1-2 minutes to 25+ minutes or never independent
 - 51% independent in 1-4 minutes
 - 34% independent in 5 – 14 minutes
 - 15% took 15+ minutes or no independence
- Self rating of comfort using the AVS on 1 to 10 scale before and after demo
 - Pre-demo mean = 4.47 (not very comfortable)
 - Post-demo mean = 8.02 (very comfortable); almost 4 point increase



Data Results Analysis

Demo/training is viable strategy to improve use of AVS.

AVS are not intuitive or “easy” for all voters to learn -- some require extended time to learn to use AVS

Cannot expect poll workers to provide demo/training during busy election day to help voters learn to use AVS – need to provide opportunities to learn AVS outside of voting day.

Voters with disabilities take more time to complete their ballot using the AVS – thus expanded early voting is helpful.



AVS Improvements Recommended by Demo/Training Participants

- 1) Larger text display – AVS “large text” is not nearly large enough. Further research suggests mean large text size needed is 17mm (not 6.3-9 mm of VVSG)
- 2) Larger touchscreen strike areas and adjustable sensitivity
- 3) Improve audio navigation and general instructions
- 4) Improve switch input navigation



Cognitive Disabilities

- "a disability that impacts an individual's ability to access, process, or remember information"

Making Voting Accessible

- Guidelines:
 - Speak directly to the voter,
 - Use words voters understand,
 - Write in an active voice to help voters use the information,
 - Avoid, or explain, election terminology



Making Voting Accessible

Some words voters may not understand or find confusing

- Absentee ballot
- Canvassing board
- Contests
- Legislation
- MVA
- Primary election
- Provisional ballot
- Ranked choice voting
- Remedial
- Unaffiliated
- Voter notification card
- Affiliate with a party
- Designate an agent
- Change parties
- Close of registrations
- Request deadline



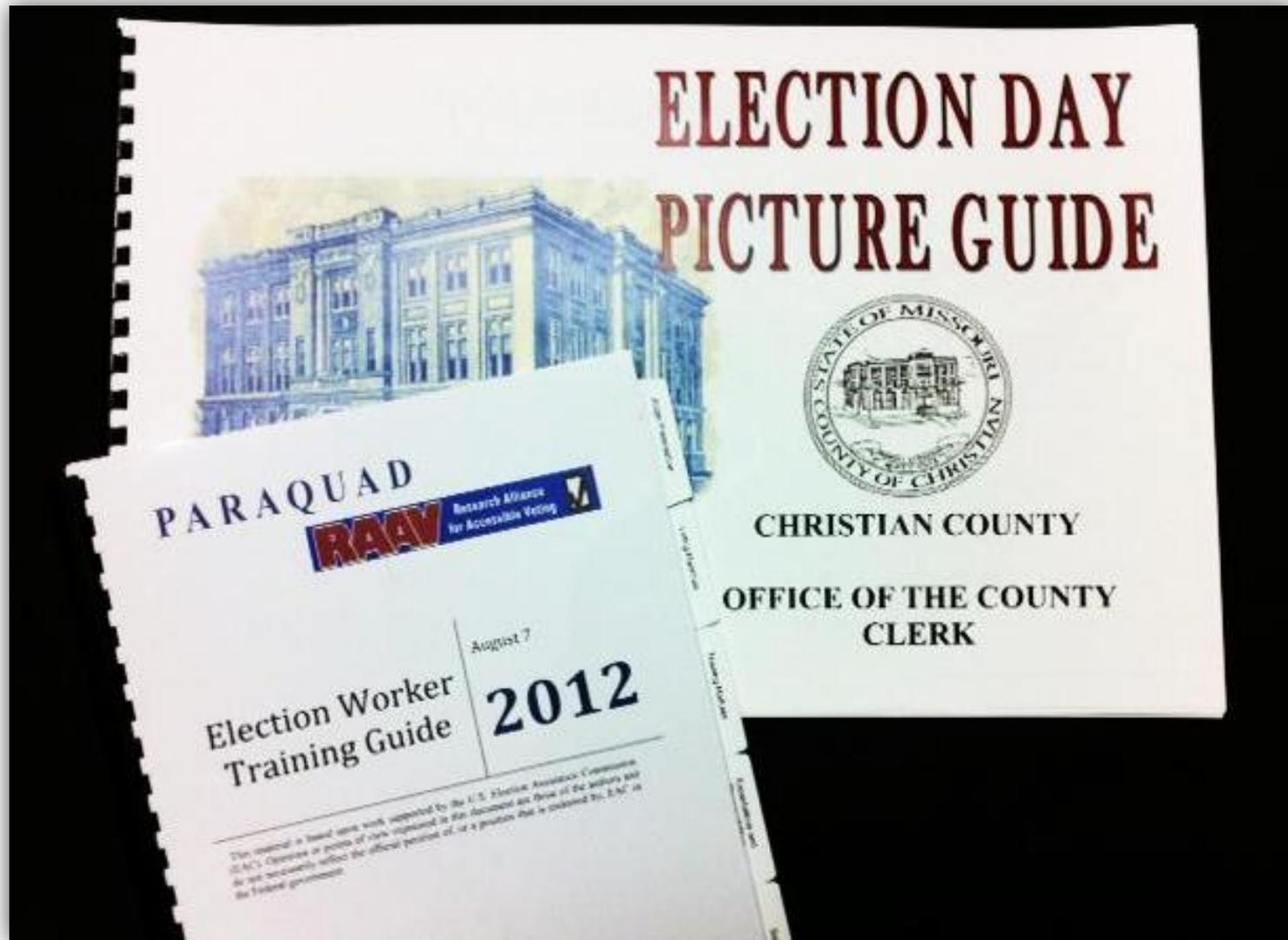
Paraquad Poll Worker Training

Goal: Develop Improved Poll Worker Training to Better Meet Needs of Disability Community

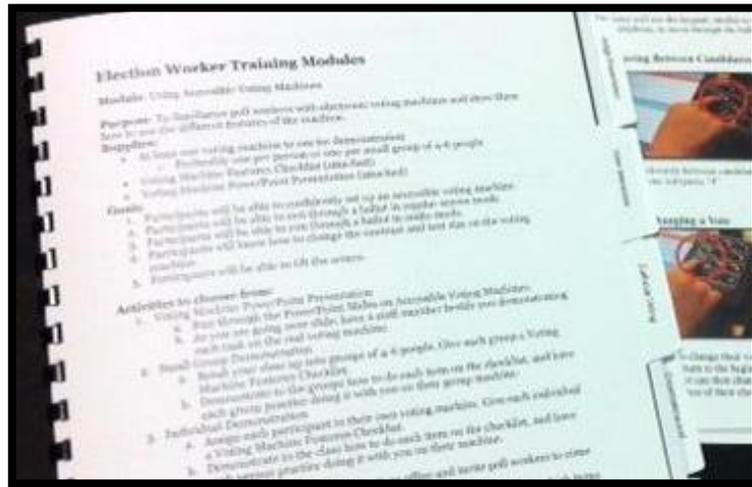
Research Phase:

- Voter Experience Surveys
 - Phone Survey of 1,200 voters with disabilities in Missouri and Tennessee
- County Clerk Interviews
 - Face to Face meetings with 10 Missouri County Clerks
 - Understand challenges and needs for administrators

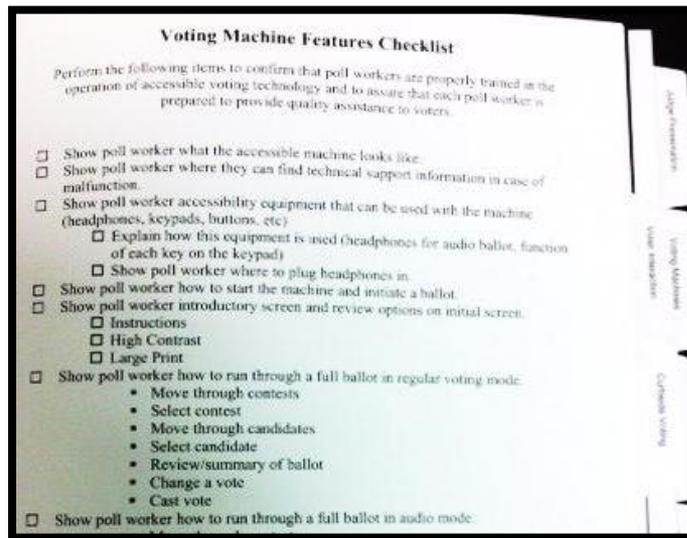
Training Materials



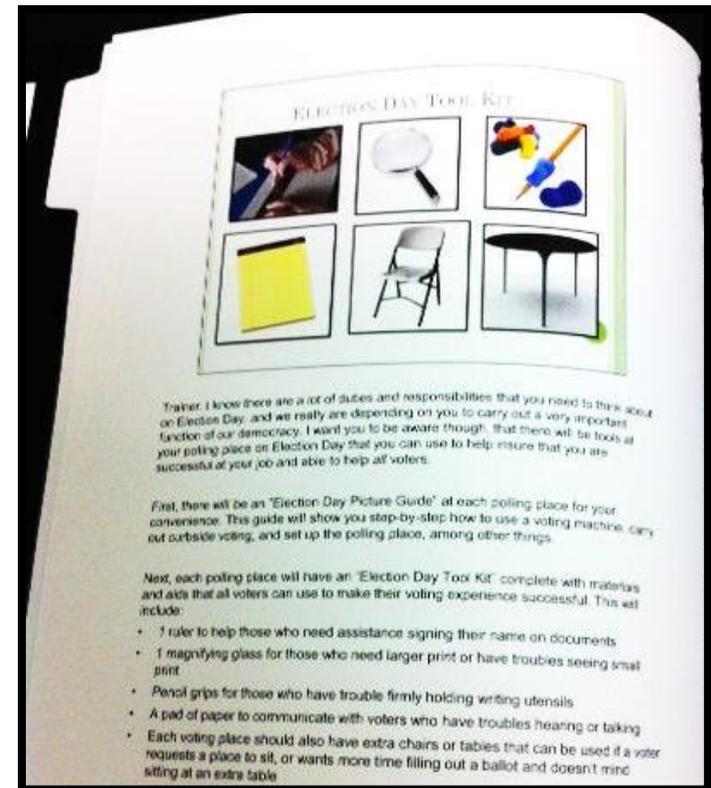
Pilot-Training Guide



Lesson Plans



Handouts/Checklists for Poll Workers



Sample PowerPoint Slides and Notes

Pilot-Picture Guide

Using the Electronic Voting Machine

AccuVote



This is the Electronic Voting Equipment at your precinct. It is set up for all voters and has features that improve accessibility.

Accessibility Equipment



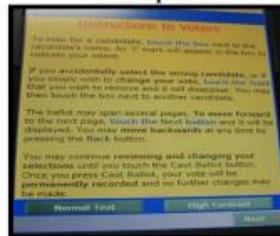
The AccuVote comes with headsets and a keypad, which are used during audio voting.

Initiate Ballot



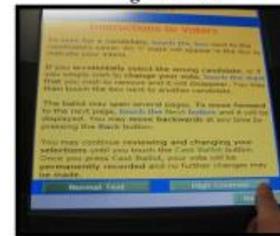
To start the voting process, insert the voter's card into the slot shown here.

Start Up Screen



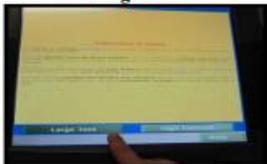
When the ballot is loaded, this screen appears. Notice the options at the bottom of the screen.

High Contrast



If a voter requests high contrast, press "High Contrast" on the bottom right of the screen.

Large Print



If a voter requests large print, press "Large Text" on the bottom left of the screen.

Adjust Screen Tilt



If the voter complains of glare on the screen or requests the screen be tilted, adjust the screen by pushing the button on the back bar and lifting the screen up.

Proper Space



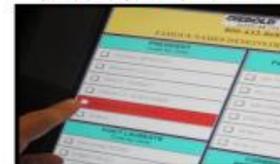
When setting up the machine, make sure there is ample space between the machine and the wall for maneuvering.

Selecting Contest



To move between contests, select the "Next" button on the bottom right side of the screen.

Select/De-Select Candidate



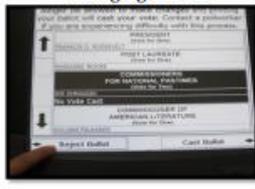
To select and de-select candidates, just touch the name of the candidate you wish to select.

Review/Summary of Ballot



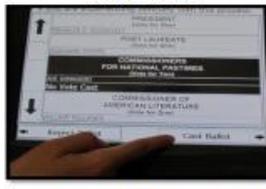
When a voter is finished moving through the ballot, a summary screen will appear. Use the arrows to review choices.

Changing a Vote



If a voter wished to change their vote in one or more contests, they will push "Reject Ballot." All ballot choices will still be selected, the voter can change votes in the contest of their choice.

Cast a Ballot



After filling out a ballot, press "Cast Ballot" to officially record votes.

Confirmation



A confirmation screen will appear when ballot has been cast successfully.



General Findings

- Poll workers find it helpful to have variety of training methodology
- Election Day Picture Guide was well received and used by poll workers
 - 51% Used Picture Guide
 - 90% Guide was Helpful
- Picture Guide Uses
 - Voting Machines: 47%
 - Polling Place Set-Up: 36%
 - Curbside Voting: 13%
 - Other: 4%

2012 post-election survey

The Election Assistance Commission provided funds through Research Alliance for Accessible Voting (RAAV) for a nationally representative household survey on voting experiences following 2012 elections

- Total sample of 3,022 adult citizens, stratified to include 2,000 with disabilities and 1,022 without disabilities
- Survey was conducted by professional survey firm, with basic voting questions based on U.S. Census

Key results from survey

- 30% of voters with disabilities reported some type of difficulty in voting at a polling place in 2012, compared to 8% of voters without disabilities
- Most common problems were difficulty in reading or seeing the ballot, understanding how to vote or use voting equipment, and long lines
- People with disabilities were just as likely as those without disabilities to say they were treated respectfully by election officials
- Among people with disabilities who voted by mail, about one-tenth reported difficulties and the need for assistance in filling out or sending the ballot.
- Asked about alternative voting methods for the next election, majorities of people both with and without disabilities say they would prefer voting in person in a polling place.

Potential solutions/best practices

1. Increased accessibility of polling places and voting equipment, including accessibility audits
2. Mobile voting
3. Poll worker training
4. Voter outreach and education
5. Permanent no-excuse mail voting

EAC funded
Research Alliance for Accessible Voting

Research on Accessible Voting

Ted Selker & Dan Gillette

subcontract performed at CMU and Berkeley
6/2011 to 6/2014

- Ted.selker@gmail.com
- Dan@gilletedesign.com

Research on Accessible Voting Projects

Ted Selker & Dan Gillette

EAC funded subcontract performed at CMU and Berkeley 6/2011 to 6/2014

- Illuminated freestanding magnifiers for optical ballot marking
 - We have begun testing them with researchers and poll workers.
- Improved audio ballot techniques
 - Published, one Japanese company implementing ideas
- Improved Low Error Voting GUI systems support ballot overview, focus and redundant feedback
 - Elements Being used in
 - Primell
 - In MD overseas voting system
 - Anywhere ballot implementation
- Created web-based interactive polling-place design and management system
 - Being evaluated for testing in LA county and Missouri
- Created Scrim, a visual-structuring overlay web browser extension
 - Being evaluated by election officials
- Created a website font and color analysis tool
 - Being evaluated by election officials

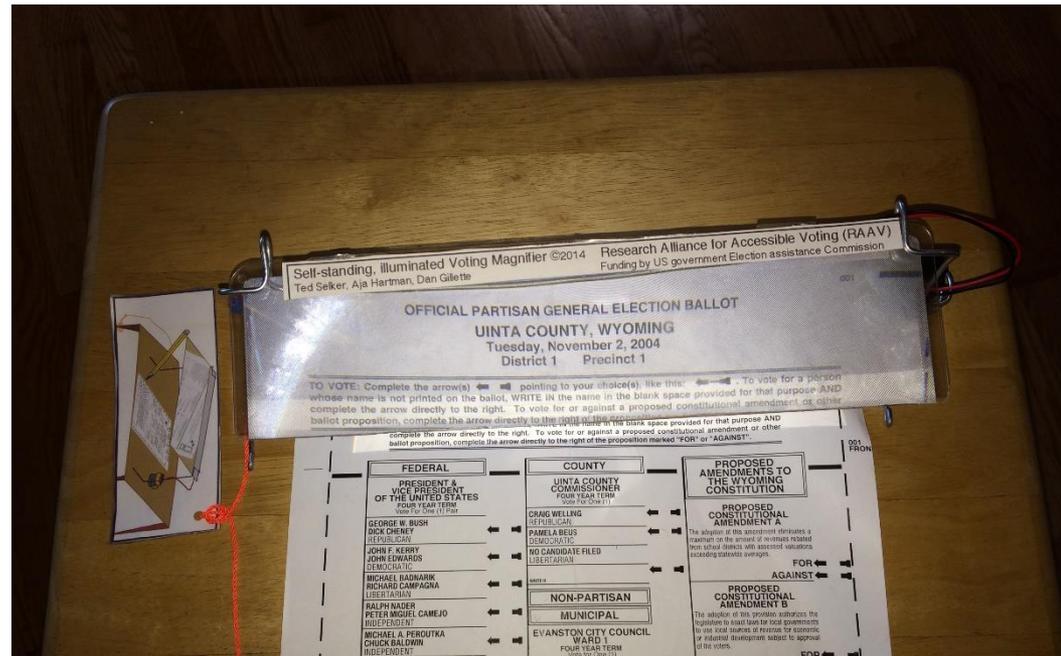
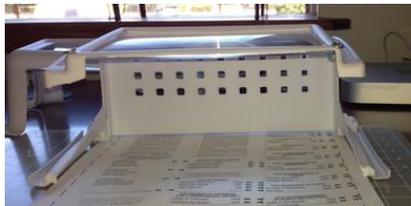
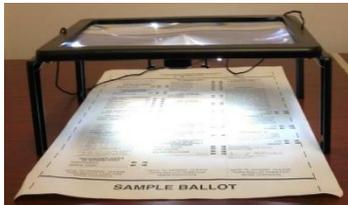
All systems open for anyone to experiment with

Research on Accessible Voting

Ted Selker & Dan Gillette

EAC funded subcontract performed at CMU and Berkeley 6/2011 to 6/2014

- Illuminated freestanding magnifiers for paper ballot marking
 - Magnification and illumination to help ameliorate slight vision impairment
 - Free standing feature designed to help people
 - Reduce physical problems (tremor, missing limbs, etc.)
 - Reduce complexity and loss of place in ballot especially helpful for people with cognitive impairments.



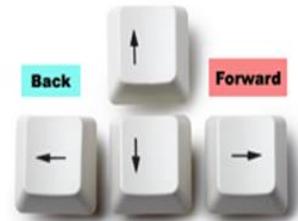
Research on Accessible Voting

Ted Selker & Dan Gillette

EAC funded subcontract performed at CMU and Berkeley 6/2011 to 6/2014

- Improved audio ballot techniques
 - Audio lag and key inactivation while audio speaking is currently a huge problem
 - Reduced size and number of buttons can help increase speed and reduce errors
 - Structuring the audio experience can reduce errors in noisy environment
 - **Improving Write-in Candidate Text Entry For Audio-Only Voting Interfaces**, Dan Gillette, Shama Hoque, Ted Selker, *29th Annual International Technology and Persons With disabilities Conference*, San Diego, Mar 2014

Condition 1: Single Tap



Condition 2: Four Keys



Condition 3: Two keys, dual-speed

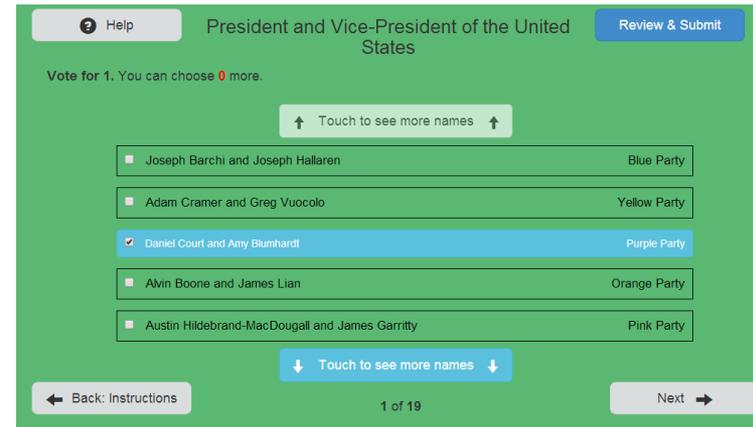
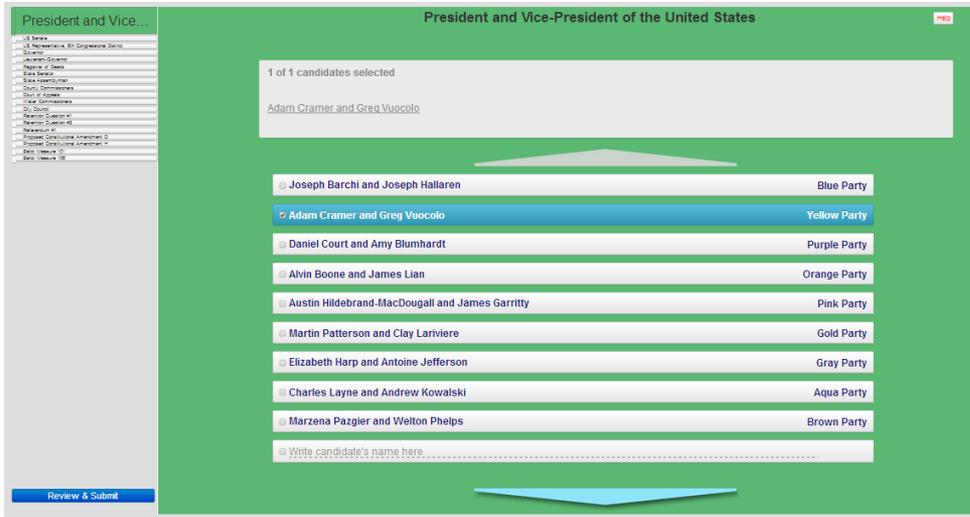


Research on Accessible Voting

Ted Selker & Dan Gillette

EAC funded subcontract performed at CMU and Berkeley 6/2011 to 6/2014

- Improved Low Error Voting GUI systems support ballot overview, focus and redundant feedback
 - Being used by the Prime III voting system,
 - State of Maryland's overseas voting prototypes;
 - Available as a platform for developers and researchers to experiment with.
 - <https://www.dropbox.com/s/kycnbytbjx4f5qj/LEVIhtml5.mp4> (2 minutes)

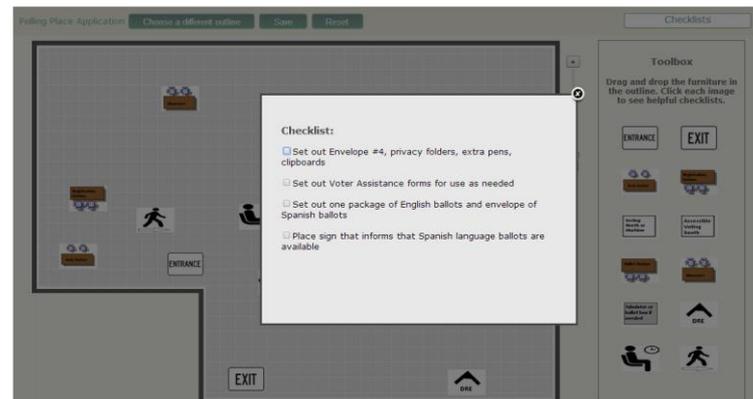
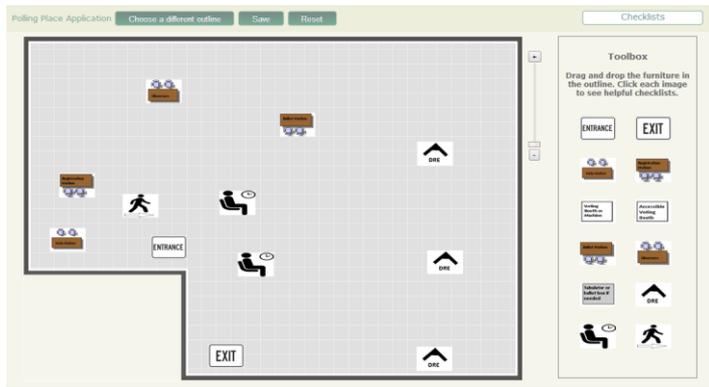


Research on Accessible Voting

Ted Selker & Dan Gillette

EAC funded subcontract performed at CMU and Berkeley 6/2011 to 6/2014

- Created web-based interactive polling-place design and management system.
 - analysis and preparation of polling place layouts prior to an election,
 - Procedural support for opening polls
 - Procedural support for closing the polls
 - Facilitating communication about problems and solutions during Election Day
 - https://www.dropbox.com/s/rz9ns7byvutkpui/pollingplacesimulator_x264.mp4 (1.3 minutes)



Visit AccessibleVoting.org

RAAV Research Alliance for Accessible Voting

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Welcome to the Research Alliance for Accessible Voting

The Goals of Accessible Voting

- ☑ Every voter can vote independently and privately, using the systems used by other voters.
- ☑ All voters must be able to get to, and move around inside, all polling places.
- ☑ Polling places must include voting machines or methods that work for all voters.
- ☑ For on-line voting, the website must be designed so that all voters can use it.
- ☑ For voting by telephone, the telephone call system must work for all voters.
- ☑ For mail-in voting, the ballot and mailing system must be designed so all voters can use them.

Accessible voting is about more than voting machines. It includes physical access, integration with individual voters' assistive technology, and information available in language and formats that meet the needs of all.

Latest news

- [President's Commission on Election Administration](#)
- [Accessible Voting Technology Workshop](#)
- [Clemson: Voting Using QR Codes](#)
- [Tips for 2012](#)
- [Clemson's Prime III Wins National Award](#)

Tips for '12

- [Tip #1: Making all information and instructions accessible](#)
- [Tip #2: Making sure the polling place itself is accessible](#)
- [Tip #3: Making sure the polling place interior is accessible](#)
- [Tip #4: Preparing poll workers to interact with voters access difficulties](#)
- [Tip #5: Make "low tech" aids available to all voters](#)

RAAV Research Alliance for Accessible Voting

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- Research
- Training
- Voting Technology
- Web and Ballot Design

Clear All

Matching Resources

Searching For: Creating Clear and Simple Language

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League of Women Voters Easy Voters Guide Oregon January 2010 [PDF]
 This is an example of an easy to read, nonbiased voters guide produced by the League of Women Voters for two Oregon ballot measures.
 This document is not accessible to screen readers at this time.

Alternative Accessible Formats [PDF]
 By The Catskill Center for Independence Project HAVA December 2008. This 2 page document talks about the what, when and why of accessible formats for voting forms and information, as well as examples of specific documents.

Writing Clearly and Simply (Tip #1) [PDF]
 These ideas were taken from a longer article on the WebAIM.org website. They



Intellectual Disabilities and Information Processing Difficulties

<input checked="" type="checkbox"/>	Cognitive Impairments (formerly "mental retardation")
<input checked="" type="checkbox"/>	Dementia
<input checked="" type="checkbox"/>	Reading Disabilities
<input checked="" type="checkbox"/>	Attentional Difficulties
<input checked="" type="checkbox"/>	Language Processing Difficulties
<input checked="" type="checkbox"/>	Executive Function Difficulties
<input checked="" type="checkbox"/>	Anxiety
<input checked="" type="checkbox"/>	Obsessive Compulsive Disorder
<input checked="" type="checkbox"/>	Anything else that interferes with processing to print and electronic materials



Possible Areas of Difficulty

<input checked="" type="checkbox"/>	Pre-election information (candidates and issues)
<input checked="" type="checkbox"/>	Voter registration (rights and processes)
<input checked="" type="checkbox"/>	Navigating the polling place
<input checked="" type="checkbox"/>	Using an accessible voting machine
<input checked="" type="checkbox"/>	Navigating the ballot
<input checked="" type="checkbox"/>	Write-ins
<input checked="" type="checkbox"/>	Understanding the ballot
<input checked="" type="checkbox"/>	Voting the ballot

Solutions

<input checked="" type="checkbox"/>	Clear and simple language for all information
<input checked="" type="checkbox"/>	Special publications/posters on rights and accommodations
<input checked="" type="checkbox"/>	Large and clear signage throughout the polling place, including outside (from the curb or street)
<input checked="" type="checkbox"/>	Easy-to-use audio that synchronizes with the screen or paper ballot
<input checked="" type="checkbox"/>	Simple and consistent ballot navigation
<input checked="" type="checkbox"/>	Photographs of candidates on the ballot
<input checked="" type="checkbox"/>	Accessible and available sample ballots
<input checked="" type="checkbox"/>	Place to keep sample ballot visible while voting
<input checked="" type="checkbox"/>	Hospitable, well-trained poll workers
<input checked="" type="checkbox"/>	Opportunities to practice ahead of time





Clear and Simple Language Study

Part 1:

Translate voter guides and ballot questions to clear and simple language.

Part 2:

Use Google Translate to translate C&S language versions into Spanish and Korean.

Part 3:

Evaluate the language translations for overall quality and for readability.

Findings

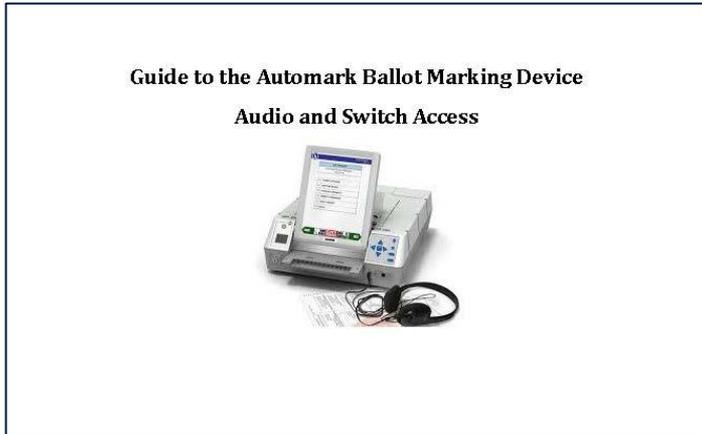
1. Many original voter guide and ballot samples score at or above the college reading level.
2. We were successful in translating all items to 8th grade level or below following simple guidelines.
3. The translated versions did not translate smoothly into Spanish and not at all into Korean.
4. Writing for translation is different than writing for clarity and simplicity in English.

Recommendations

1. Provide writing guides to everyone writing materials for voters.
2. Do not rely on machine translations for second language translations of readable materials.



Readable Instructions for the Automark Ballot Marking Device



1. Flip book works better than card.
2. Need a place to keep the book where it is visible and accessible.
3. Intended for voters and for poll workers.

Download the instruction booklet at

www.accessiblevoting.org/Library/AllResources

How to Use the Automark

How to Use Audio System

You can **listen** to your ballot and mark it using the touchscreen, the console, or switch devices.

If you want, you can **make the screen black**. To do that, press the top right, diamond-shaped, button on the keypad to the right of the touch screen.



Tennessee Disability Coalition



- Conducted 3 Voter Experience Pilots in Year 1
 1. Voter Experience Surveys
 - Over 500 voters with disabilities surveyed via phone.
 - Were poll workers knowledgeable about accessible voting machines? 87%
Yes
 - Were poll workers knowledgeable about accommodations available? 44%
Yes
 2. Exit Pollers
 - 250 Surveys filled out by exit pollers
 - Low incidence of disability
 - Overwhelmingly good reports, no perceived problems from voters
 3. Poll Watchers
 - Poll watchers were asked to complete surveys and write reports based on their findings. There was again a low incidence of disability and most issues reported or found were access problems

Tennessee Disability Coalition



- Year 2: Material Development and Self Study Pilot
- Materials Developed:
 - Poll Worker Tip Sheets
 - Step by step picture guides on voting technology and access features used by poll workers and voters
 - Poll Worker Training Guide (Already developed by the Disability Law and Advocacy Center of TN)
 - Video (Year 3)
- A self-study for poll workers was completed in March 2013. A test group of 8 poll workers were given materials developed and additional training methods. A control group of 8 poll workers only received training by a county election commission
- Pilot didn't yield conclusive scientific results due to extremely low turnout. Poll workers were given no chance to implement perceived new skills. However they have provided some positive feedback.
 - High satisfaction rates from election administrators, poll workers, and advocates.
 - The picture guide developed is being widely used throughout the state by most county election commissions



Findings and Recommendations

- Poll workers need more training time.
 - This was the main complaint from administrators and voting rights advocates.
- Training needs to be offered through different mediums.
 - (i.e. in person, self-studies, online trainings, job aides)
 - These help poll workers to learn scenarios that are not typically learned during the required state training.
 - Poll workers have the option to take materials home with them to learn in their own time.
 - Election administrators typically spend time on access and etiquette relating to people with disabilities, rather than accessible voting machines.
- Administrators should consider partnering with disability advocacy organizations to troubleshoot budget friendly and time efficient ways to train poll workers. Advocacy organizations in Tennessee have developed an accessibility training manual used widely in election trainings.
- Barriers the polling place are not always visible. Poll workers needs to offer assistance to every voter than enters a polling place to ensure each voter can privately and independently cast his ballot. Election Administrators should consider hiring more poll workers with disabilities to help troubleshoot election day problems.

Election Official and Voter Equipment Reporting



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Clear All Filters Export to CSV

- Jurisdiction »
- Voting Equipment »
- Voting Equipment Vendor »
- Voting Equipment Type »
- Accessibility Features »
- Equipment Count »
- Count Location »
- Voting Method »
 - In Person X
- Voting Equipment Status »
 - Present X
 - Future
- Data Source »
- Procurement Date »
- Beginning Use Date »
- Ending Use Date »
- Voter Registration Number »

Report: Filtered List

Show/Hide Columns Page 1 of 234 Rows per Page: 20 View 1 - 20 of 4,672

Jurisdiction	Voting Equipment	Equipment Vendor	Equipment Type	Accessibility Features	Equipment Count	Count Location	Voting Method	Equipment Status	Usage Period	Recent Voter Registration Count
Los Angeles County, CA	InkaVote Plus	ES&S	Optical scan		Not Available	Unknown	In Person	Present	03/02/04	4,758,437
Cook County, IL	Optech Insight	Sequoia Voting Systems	Optical scan		Not Available	Precinct	In Person	Present	03/01/06	2,933,502
Harris County, TX	Ballot Now	Hart InterCivic	Optical scan		Not Available	Unknown	In Person	Present	11/05/02	2,000,011
Maricopa County, AZ	Optech IV-C	Sequoia Voting Systems	Optical scan		Not Available	Central	In Person	Present	01/01/04	1,817,832
Orange County, CA	eSlate	Hart InterCivic	Electronic	Hart Intercivic Accessible Machine	Not Available	Unknown	In Person	Present	03/02/04	1,683,001
San Diego County, CA	AccuVote-OS	Premier Election Solutions	Optical scan		Not Available	Central	In Person	Present	10/10/04	1,563,093
Kings County, NY	ES-2000 Accuvote Voting System	ES&S	Optical scan		Not Available	Unknown	In Person	Present	01/01/10	1,424,479
Wayne County, MI	Model 100 (OS)	ES&S	Optical scan		Not Available	Precinct	In Person	Present	11/05/05	1,381,893
Miami-Dade County, FL	Unknown (OS)	ES&S	Optical scan		Not Available	Unknown	In Person	Present	08/26/08	1,313,850
Dallas County, TX	Model 100 (OS)	ES&S	Optical scan		Not Available	Unknown	In Person	Present	01/01/06	1,177,468
King County, WA	AccuVote-OS	Premier Election Solutions	Optical scan		Not Available	Unknown	In Person	Present	11/05/02	1,170,638
Broward County, FL	Unknown (OS)	ES&S	Optical scan		Not Available	Unknown	In Person	Present	08/26/08	1,140,454
Queens County, NY	ES-2000 Accuvote Voting System	ES&S	Optical scan		Not Available	Unknown	In Person	Present	01/01/10	1,116,578
New York County, NY	ES-2000 Accuvote Voting System	ES&S	Optical scan		Not Available	Unknown	In Person	Present	01/01/10	1,109,781
Philadelphia County, PA	ELECTronic 1242	Danaher Controls	Electronic		Not Available	Unknown	In Person	Present	11/05/02	1,099,197
Middlesex County, MA	Mixed (multiple systems)	Unknown	Mixed systems		Not Available	Unknown	In Person	Present	11/03/80	984,117
Tarrant County, TX	Ballot Now	Hart InterCivic	Optical scan		Not Available	Unknown	In Person	Present	01/01/06	974,880
Suffolk County, NY	Unknown (OS)	Sequoia Voting Systems	Optical scan		Not Available	Unknown	In Person	Present	01/01/10	971,892
Clark County, NV	AVC Edge	Sequoia Voting Systems	Electronic	Large Font Sip and Puff Audio Ballot Navigation Buttons	Not Available	Unknown	In Person	Present	11/07/04	961,970
Nassau County, NY	ES-2000 Accuvote Voting System	ES&S	Optical scan		Not Available	Unknown	In Person	Present	01/01/10	960,331

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Election Official and Voter Equipment Reporting



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 - Future
- Data Source »
- Procurement Date »
- Beginning Use Date »
- Ending Use Date »
- Voter Registration Number »
 - 147,003 - 355,003 X

Report: Filtered List

Show/Hide Columns Page 1 of 4 Rows per Page: 50 View 1 - 50 of 171

Jurisdiction	Voting Equipment	Equipment Vendor	Equipment Type	Accessibility Features	Equipment Count	Count Location	Voting Method	Equipment Status	Usage Period	Recent Voter Registration Count
Bristol County, MA	Mixed (multiple systems)	Unknown	Mixed systems		Not Available	Unknown	In Person	Present	11/03/80	352,306
Polk County, FL	AccuVote-OS	Diebold Election Systems	Optical scan		Not Available	Unknown	In Person	Present	11/05/02	351,119
Anne Arundel County, MD	AccuVote-TS	Premier Election Solutions	Electronic		Not Available	Unknown	In Person	Present	03/02/04	348,770
Tulsa County, OK	Optech III-P Eagle	Unknown	Optical scan		Not Available	Unknown	In Person	Present	11/07/00	346,849
Plymouth County, MA	Mixed (multiple systems)	Unknown	Mixed systems		Not Available	Unknown	In Person	Present	11/03/80	341,301
Hudson County, NJ	AVC Advantage	Sequoia Voting Systems	Electronic		600	Unknown	In Person	Present	06/01/04	341,253
Lake County, IN	Infinity	MicroVote Corp.	Electronic		Not Available	Unknown	In Person	Present	11/04/97	340,047
Fort Bend County, TX	Ballot Now	Hart InterCivic	Optical scan		780	Unknown	In Person	Present	11/08/05	339,694
Ramsey County, MN	Optech III-P	BRC	Optical scan		Not Available	Unknown	In Person	Present	11/08/94	337,883
Chester County, PA	Model 100 (OS)	ES&S	Optical scan		Not Available	Precinct	In Person	Present	05/16/06	337,822
Genesee County, MI	Model 100 (OS)	ES&S	Optical scan		Not Available	Unknown	In Person	Present	02/08/04	336,373
Kern County, CA	AccuVote-OS	Premier Election Solutions	Optical scan		Not Available	Unknown	In Person	Present	02/04/08	332,864
Volusia County, FL	AccuVote-OS	Diebold Election Systems	Optical scan		Not Available	Unknown	In Person	Present	11/05/02	332,556
Morris County, NJ	AVC Advantage	Sequoia Voting Systems	Electronic		805	Unknown	In Person	Present	11/07/00	327,422
Douglas County, NE	Model 650 (OS)	ES&S	Optical scan		Not Available	Central	In Person	Present	11/05/96	327,182
Lancaster County, PA	eScan	Hart InterCivic	Optical scan		Not Available	Unknown	In Person	Present	05/16/06	314,567
Pasco County, FL	Unknown (OS)	ES&S	Optical scan		Not Available	Unknown	In Person	Present	04/08/08	310,322
Lucas County, OH	AccuVote-TS	Premier Election Solutions	Electronic		Not Available	Unknown	In Person	Present	11/02/04	310,123
Onondaga County, NY	Unknown (OS)	Sequoia Voting Systems	Optical scan		Not Available	Unknown	In Person	Present	01/01/10	308,540
Union County, NJ	AVC Advantage	Sequoia Voting Systems	Electronic		500	Unknown	In Person	Present	11/07/00	307,628
Hidalgo County, TX	Unknown (OS)	ES&S	Optical scan		Not Available	Unknown	In Person	Present	01/01/06	304,823
Virginia Beach City County, VA	AccuVote-TSX	Premier Election Solutions	Electronic	Contrast Change Capability Large Font	899	Unknown	In Person	Present	06/01/06	304,440
Hampden County, MA	Mixed (multiple systems)	Unknown	Mixed systems		Not Available	Unknown	In Person	Present	11/03/80	302,242
San Joaquin County, CA	AccuVote-OS	Premier Election Solutions	Optical scan		Not Available	Unknown	In Person	Present	06/02/06	293,004
Washington County, OR	Unknown (OS)	Unknown	Optical scan		Not Available	Unknown	In Person	Present	01/01/04	292,436
Burlington County, NJ	AVC Advantage	Sequoia Voting Systems	Electronic		520	Unknown	In Person	Present	11/07/00	291,760
Passaic County, NJ	AVC Advantage	Sequoia Voting Systems	Electronic		757	Unknown	In Person	Present	11/04/03	290,424
Knox County, TN	eSlate	Hart InterCivic	Electronic	Hart Intercivic Accessible Machine	Not Available	Unknown	In Person	Present	11/05/02	287,288

Election Official and Voter Equipment Reporting



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Clear All Filters Export to CSV

- Jurisdiction »
- Voting Equipment »
- Voting Equipment Vendor »
 - Hart InterCivic X
- Voting Equipment Type »
- Accessibility Features »
- Equipment Count »
- Count Location »
- Voting Method »
- Voting Equipment Status »
 - Present X
 - Future
- Data Source »
- Procurement Date »
- Beginning Use Date »
- Ending Use Date »
- Voter Registration Number »

Report: Filtered List

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Jurisdiction	Voting Equipment	Equipment Vendor	Equipment Type	Accessibility Features	Equipment Count	Count Location	Voting Method	Equipment Status	Usage Period	Recent Voter Registration Count
Harris County, TX	Ballot Now	Hart InterCivic	Optical scan		Not Available	Unknown	In Person	Present	11/05/02	2,000,011
Harris County, TX	eSlate	Hart InterCivic	Electronic	Hart InterCivic Accessible Machine	Not Available	Unknown	Accessible	Present	02/01/06	2,000,011
Orange County, CA	eSlate	Hart InterCivic	Electronic	Hart InterCivic Accessible Machine	Not Available	Unknown	Accessible	Present	03/02/04	1,683,001
Orange County, CA	eSlate	Hart InterCivic	Electronic	Hart InterCivic Accessible Machine	Not Available	Unknown	In Person	Present	03/02/04	1,683,001
Tarrant County, TX	eSlate	Hart InterCivic	Electronic	Hart InterCivic Accessible Machine	Not Available	Unknown	Accessible	Present	02/01/06	974,880
Tarrant County, TX	Ballot Now	Hart InterCivic	Optical scan		Not Available	Unknown	In Person	Present	01/01/06	974,880
Travis County, TX	eSlate	Hart InterCivic	Electronic	Hart InterCivic Accessible Machine	Not Available	Unknown	Accessible	Present	02/01/06	632,962
Travis County, TX	Ballot Now	Hart InterCivic	Optical scan		Not Available	Unknown	In Person	Present	01/22/04	632,962
Hamilton County, OH	eScan	Hart InterCivic	Optical scan		Not Available	Unknown	In Person	Present	05/01/06	564,429
Honolulu County, HI	eSlate	Hart InterCivic	Electronic	Hart InterCivic Accessible Machine	Not Available	Unknown	Accessible	Present	01/01/04	474,554
Honolulu County, HI	eScan	Hart InterCivic	Optical scan		Not Available	Unknown	In Person	Present	11/08/08	474,554
Denton County, TX	eSlate	Hart InterCivic	Electronic	Hart InterCivic Accessible Machine	Not Available	Unknown	Accessible	Present	02/01/06	386,742
Denton County, TX	eScan	Hart InterCivic	Optical scan		Not Available	Precinct	In Person	Present	04/04/97	386,742
San Mateo County, CA	Optech III-P Eagle	Hart InterCivic	Optical scan		Not Available	Unknown	In Person	Present	11/08/94	361,486
San Mateo County, CA	eSlate	Hart InterCivic	Electronic	Hart InterCivic Accessible Machine	Not Available	Unknown	Accessible	Present	01/01/06	361,486
Fort Bend County, TX	eSlate	Hart InterCivic	Electronic	Hart InterCivic Accessible Machine	Not Available	Unknown	Accessible	Present	02/01/06	339,694
Fort Bend County, TX	Ballot Now	Hart InterCivic	Optical scan		780	Unknown	In Person	Present	11/08/05	339,694
Lancaster County, PA	eSlate	Hart InterCivic	Electronic	Hart InterCivic Accessible Machine	Not Available	Unknown	Accessible	Present	05/16/06	314,567
Lancaster County, PA	eScan	Hart InterCivic	Optical scan		Not Available	Unknown	In Person	Present	05/16/06	314,567
Knox County, TN	eSlate	Hart InterCivic	Electronic	Hart InterCivic Accessible Machine	Not Available	Unknown	In Person	Present	11/05/02	287,288
Montgomery County, TX	Ballot Now	Hart InterCivic	Optical scan		Not Available	Unknown	In Person	Present	03/01/06	264,980
Montgomery County, TX	eSlate	Hart InterCivic	Electronic	Hart InterCivic Accessible Machine	Not Available	Unknown	Accessible	Present	02/01/06	264,980
Kane County, IL	eSlate	Hart InterCivic	Electronic	Hart InterCivic Accessible Machine	Not Available	Precinct	In Person	Present	03/21/06	263,876
Sonoma County, CA	eSlate	Hart InterCivic	Electronic	Hart InterCivic Accessible Machine	Not Available	Unknown	Accessible	Present	01/01/06	260,315
Boulder County, CO	eSlate	Hart InterCivic	Electronic	Hart InterCivic Accessible	Not Available	Unknown	In Person	Present	06/01/04	248,909



Accessible Voting Technologies

Pilots

- NSBE Election (2008 - 2014)
- State of Oregon (May 2012)



Pilots

- Self Advocates Becoming Empowered (SABE 2012)
 - Ballot contained photos of the candidates
- Clemson Elementary School (2012)



Pilot Election

- Wisconsin
 - April 1, 2014



Pilot Challenges

- Election Officials
 - In many cases, unwilling to participate
 - It takes a lot of work to convince some of them
- Vendors
 - It took a lot of time to communicate that we are not vendors
- Participants
 - Getting a diverse group to participate

RAAV

Research Alliance for Accessible Voting

Questions???

<http://www.AccessibleVoting.org>

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