

Securing Digital Democracy

Lecture 2 | *How We Got Here*



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The Living Voice

2.1 The Living Voice



Public domain image (original at St. Louis Art Museum) via Doug Jones.
<http://homepage.cs.uiowa.edu/~jones/voting/pictures/>

Voice Voting

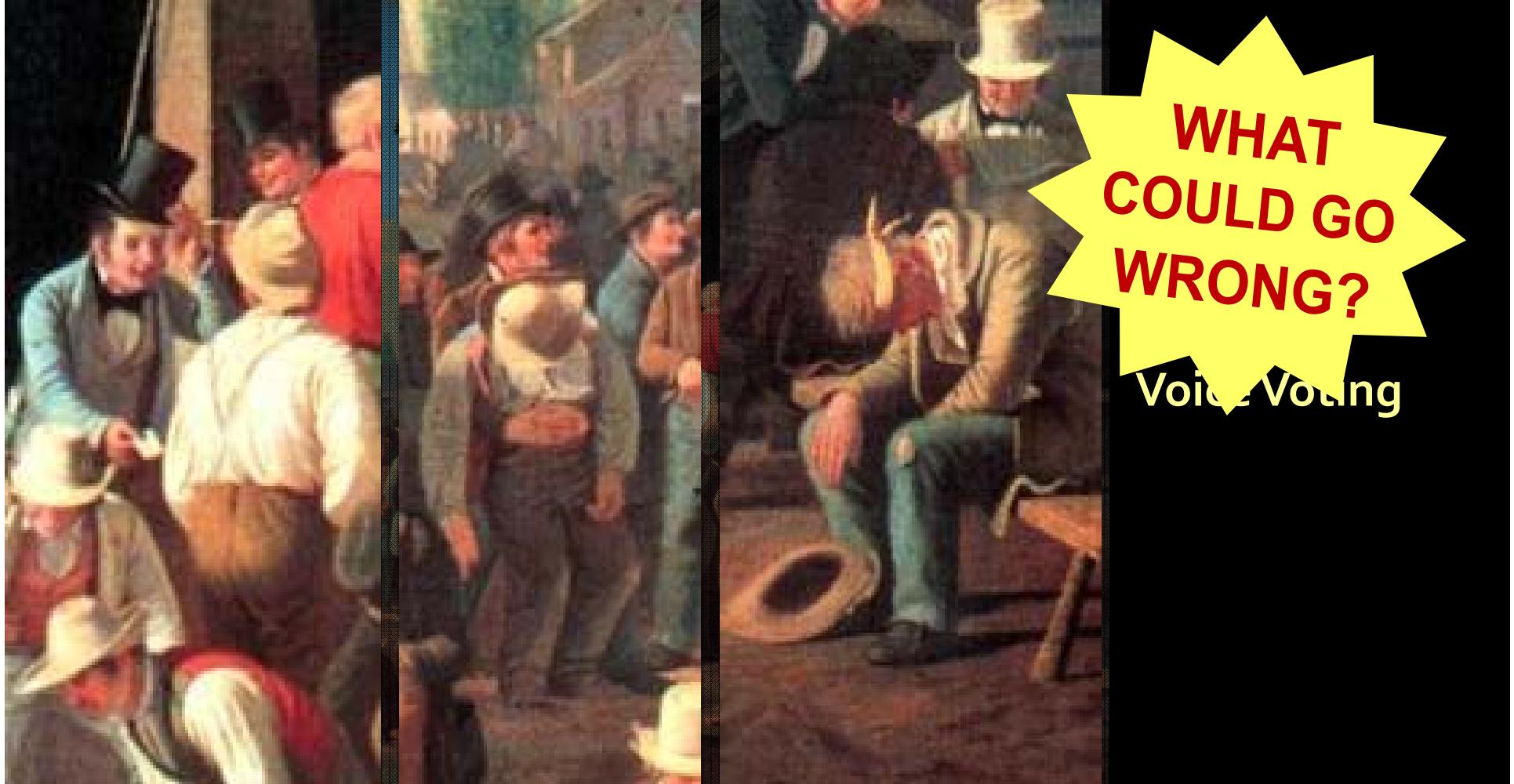
The County Election
(Missouri, c.1846)
George Caleb Bingham
1851-2

2.1 The Living Voice



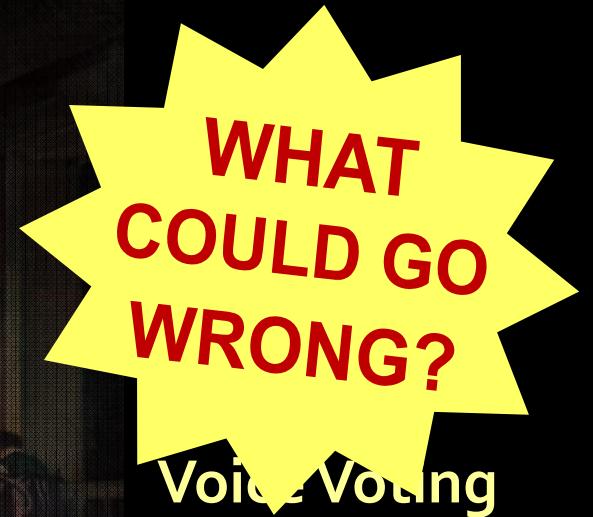
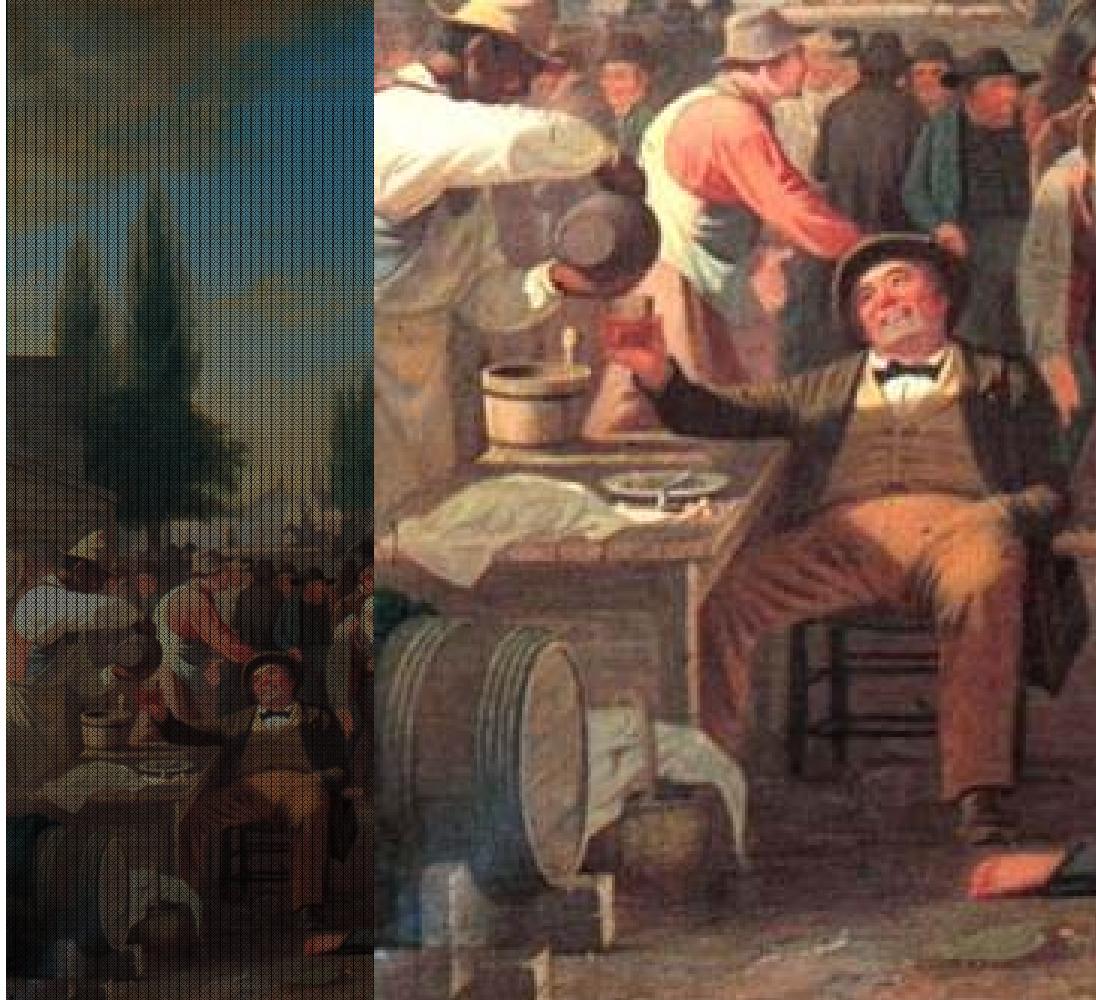
2.1 The Living Voice

Securing Digital Democracy 



2.1 The Living Voice

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Early Paper Ballots

2.2 Paper Ballots

**Ballot Box
with Balls**



Public domain image from Smithsonian Institution.
<http://americanhistory.si.edu/vote/patchwork.html>

2.2 Paper Ballots

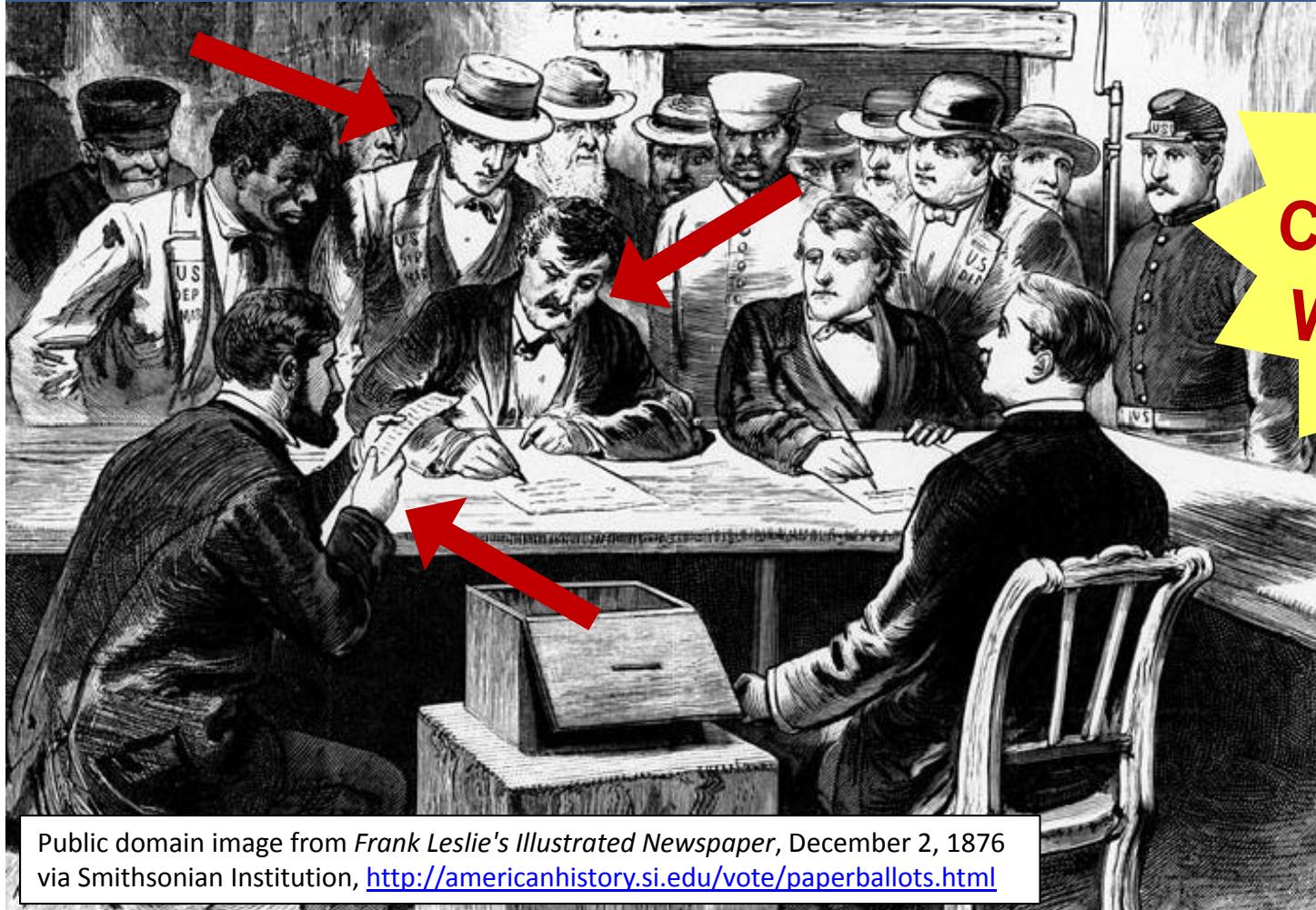


Wooden
Ballot Box

Public domain image from Smithsonian Institution.
<http://americanhistory.si.edu/vote/patchwork.html>

U.S., c.1870

2.2 Paper Ballots

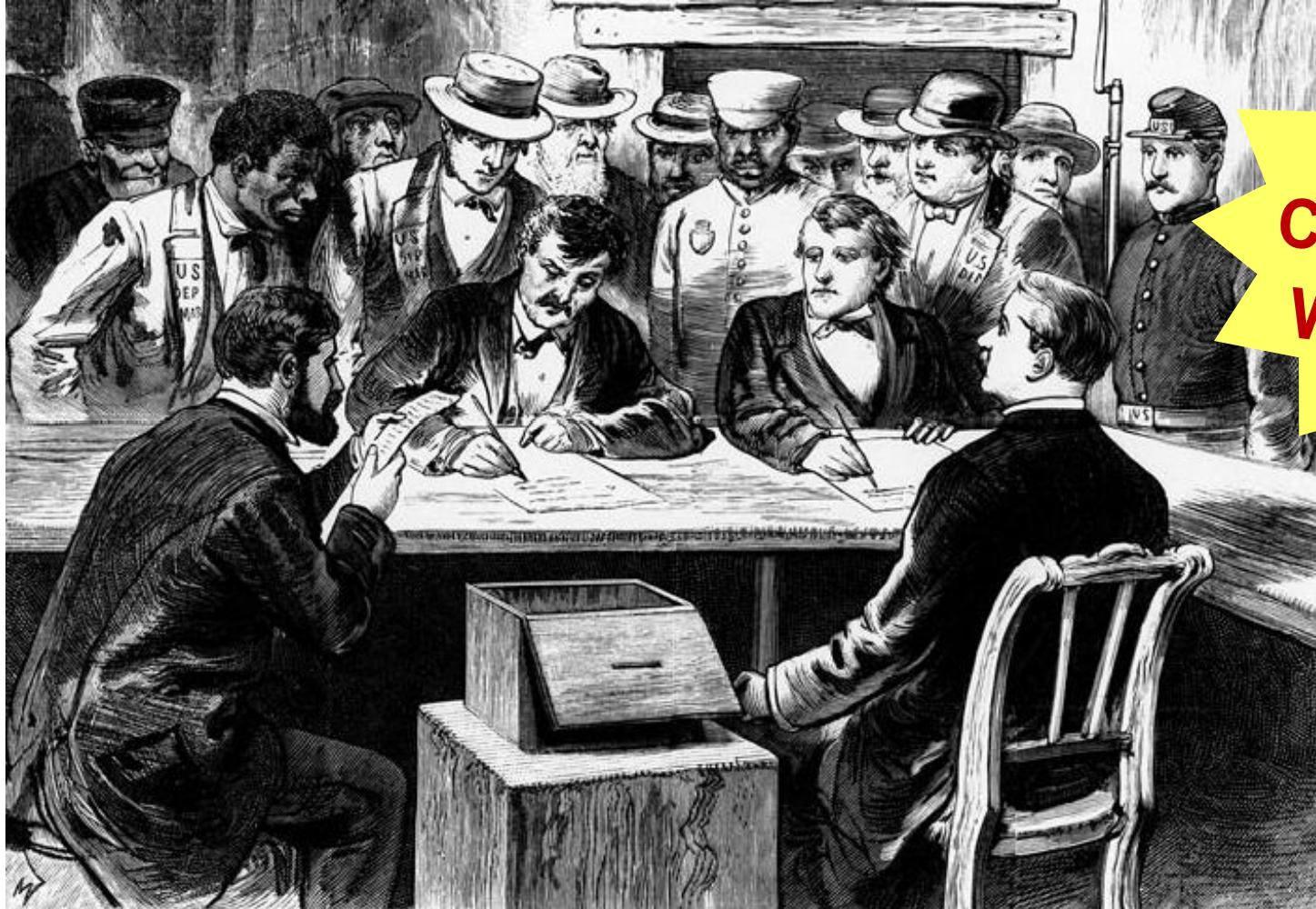


Public domain image from *Frank Leslie's Illustrated Newspaper*, December 2, 1876
via Smithsonian Institution, <http://americanhistory.si.edu/vote/paperballots.html>

WHAT
COULD GO
WRONG?
Using
Paper Ballots

New Orleans, 1876

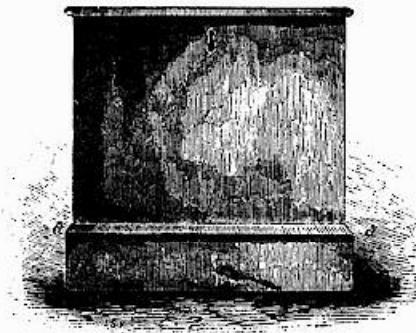
2.2 Paper Ballots



WHAT
COULD GO
WRONG?
Using
Paper Ballots

New Orleans, 1876

2.2 Paper Ballots



THE STUFFER'S BALLOT-BOX CLOSED UP.

STUFFER'S BALLOT-BOX.

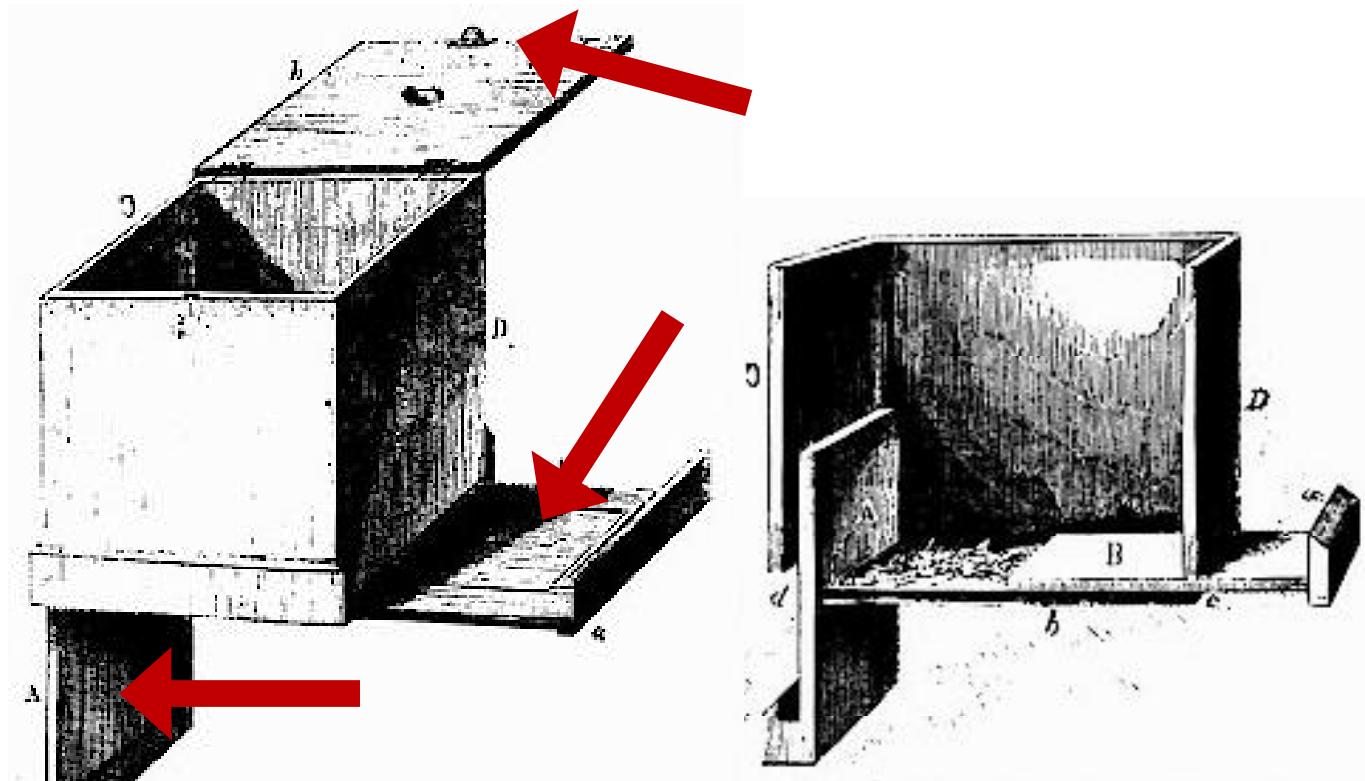
We give three views of the "Stuffer's Ballot-Box," which will give the reader a clear idea of the *modus operandi* of conducting the elections in San Francisco, and probably in some of our northern cities. The drawings were made from the box now in possession of the Vigilance Committee. It was from ballots taken from this box that Yankee Sullivan made out the election returns that secured Casey his office of Supervisor. The box is about two feet long and fourteen inches wide, and a foot deep, and painted on the outside a dark sky-blue color. It had molding or clefts around the bottom, and at the top next the lid. The lock, which looked like an ordinary one, is so constructed that though it is worked with a key, it might also be opened by a pecking instrument, and one end of the lid. There was a circular hole in the middle of the lid and some of the wax with which it had been sealed at the closing of the polls when last used, was still remaining. It seems that the box was used last at a primary election in the Seventh ward, and the votes were still in it. On looking at the ballot-box, few would suspect the contrivances about it; but on further and minute examination it was found that it had a false bottom and a false side, sliding in grooves, under and behind which were packed quantities of spurious votes all ready for an election.

The mode of working the machine seems to have been this: A sufficient number of the votes which the initiated wished to elect, were prepared and secreted under and behind the false bottom and side. The election was held: Smith was the man to be elected, but Brown was the man the people chose. The pulls were then closed, and the box sealed and placed on the lands, where quiet and secure. The stuffer then drew out the false bottom at his convenience, turned the box upside down, shoved the bottom back and Smith had a majority of the votes; or suppose Brown had still a majority, the false side was pulled down, and another reservoir of votes for Smith was opened. Smith now had a triumphant majority, though the seal had not been touched; or if nothing else would do,

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FRANK LESLIE'S ILLUSTRATED NEWSPAPER.

[JULY 19, 1856.]



THE STUFFER'S BALLOT-BOX—INTERIOR VIEW.

Public domain image from *Frank Leslie's Illustrated Newspaper*, 1856
via Smithsonian Institution. <http://americanhistory.si.edu/vote/paperballots.html>

2.2 Paper Ballots

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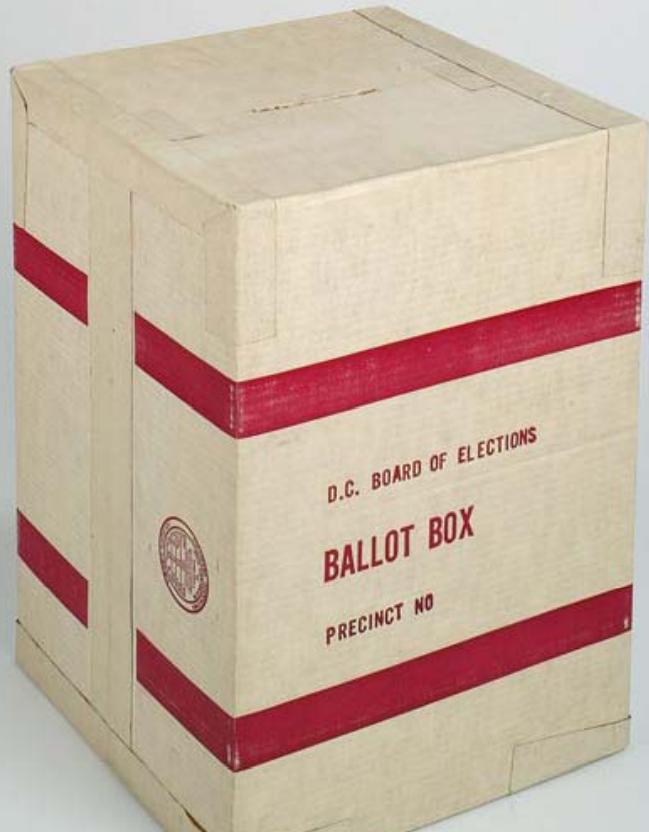
Glass
Ballot Box
U.S., 1884

Acme Voting
Machine
U.S., c.1880



Public domain images from Smithsonian Institution.
<http://americanhistory.si.edu/vote/reform.html>

2.2 Paper Ballots



Public domain images from Smithsonian Institution.
<http://americanhistory.si.edu/vote/patchwork.html>

**Cardboard
Ballot Box**

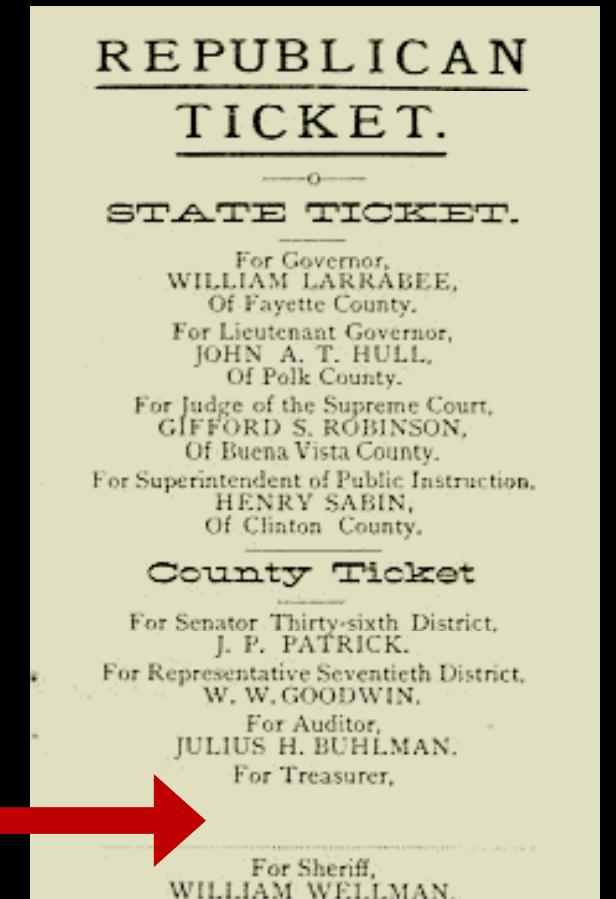
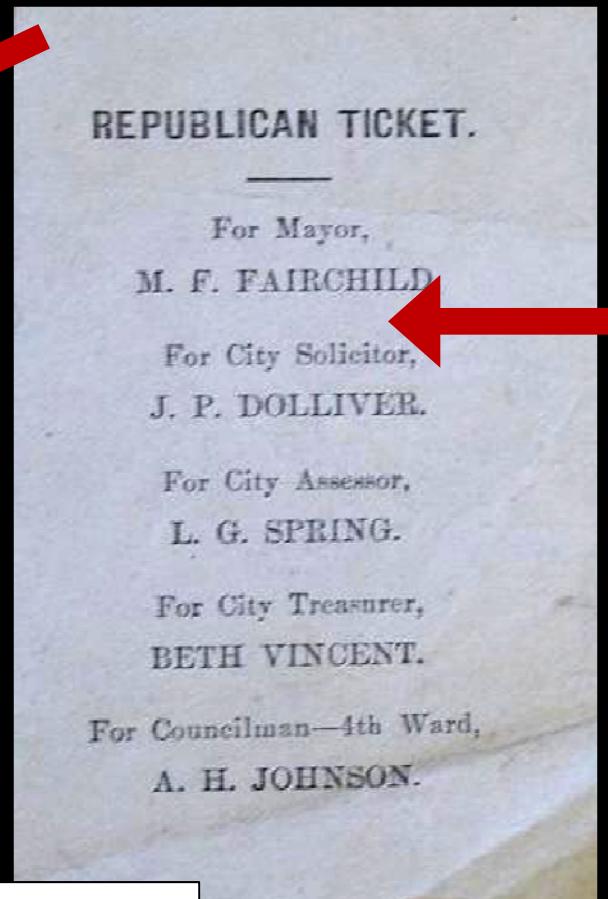
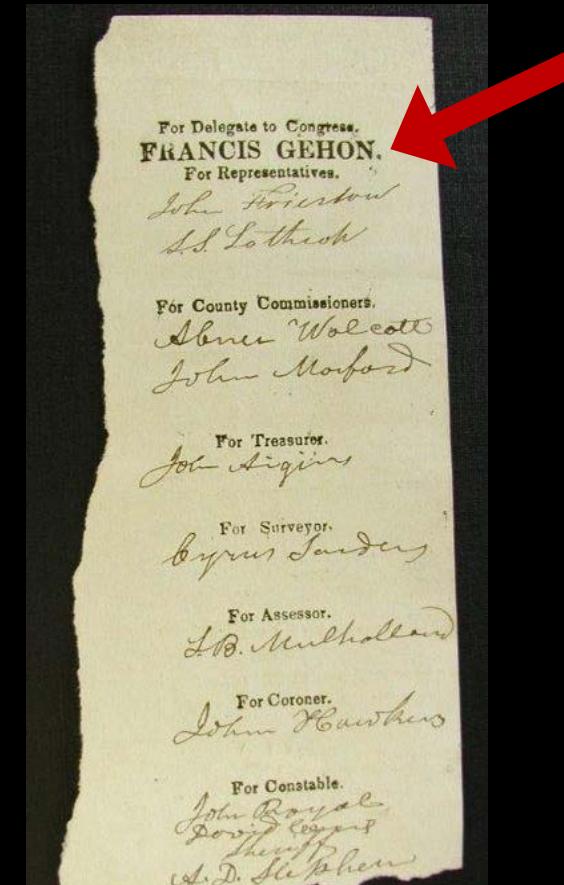
D.C., 1964

**Metal
Ballot Box**

Calif., c.1936



2.2 Paper Ballots



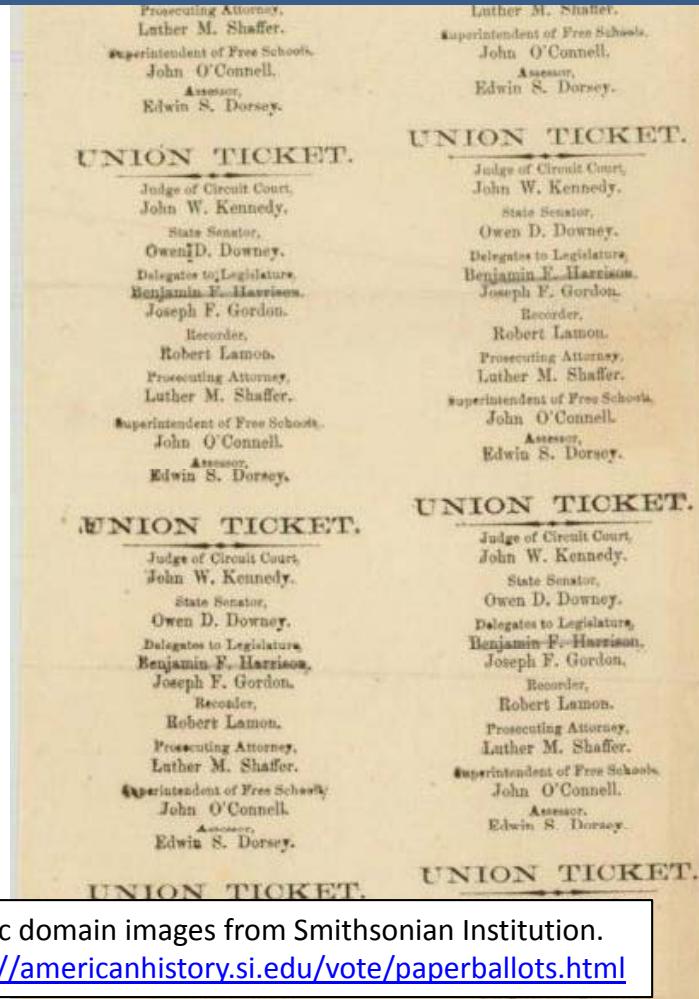
Images used by permission of Doug Jones.

<http://homepage.cs.uiowa.edu/~jones/voting/pictures/>

1880

1888

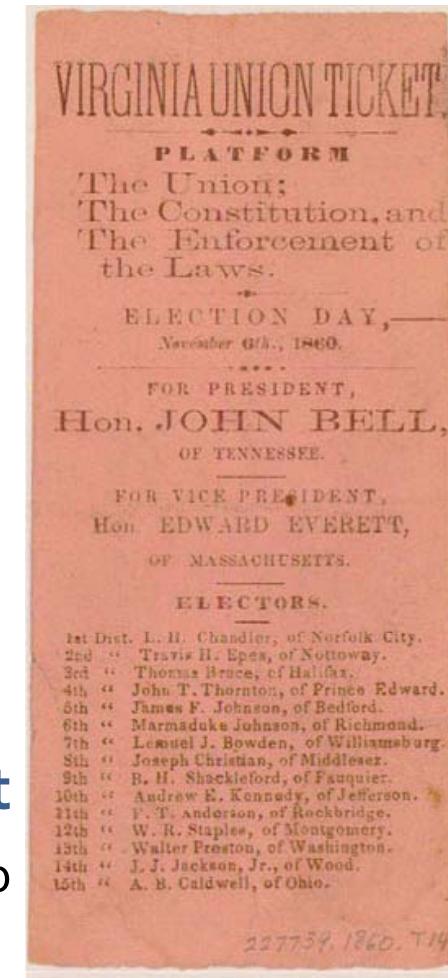
2.2 Paper Ballots



Public domain images from Smithsonian Institution.
<http://americanhistory.si.edu/vote/paperballots.html>

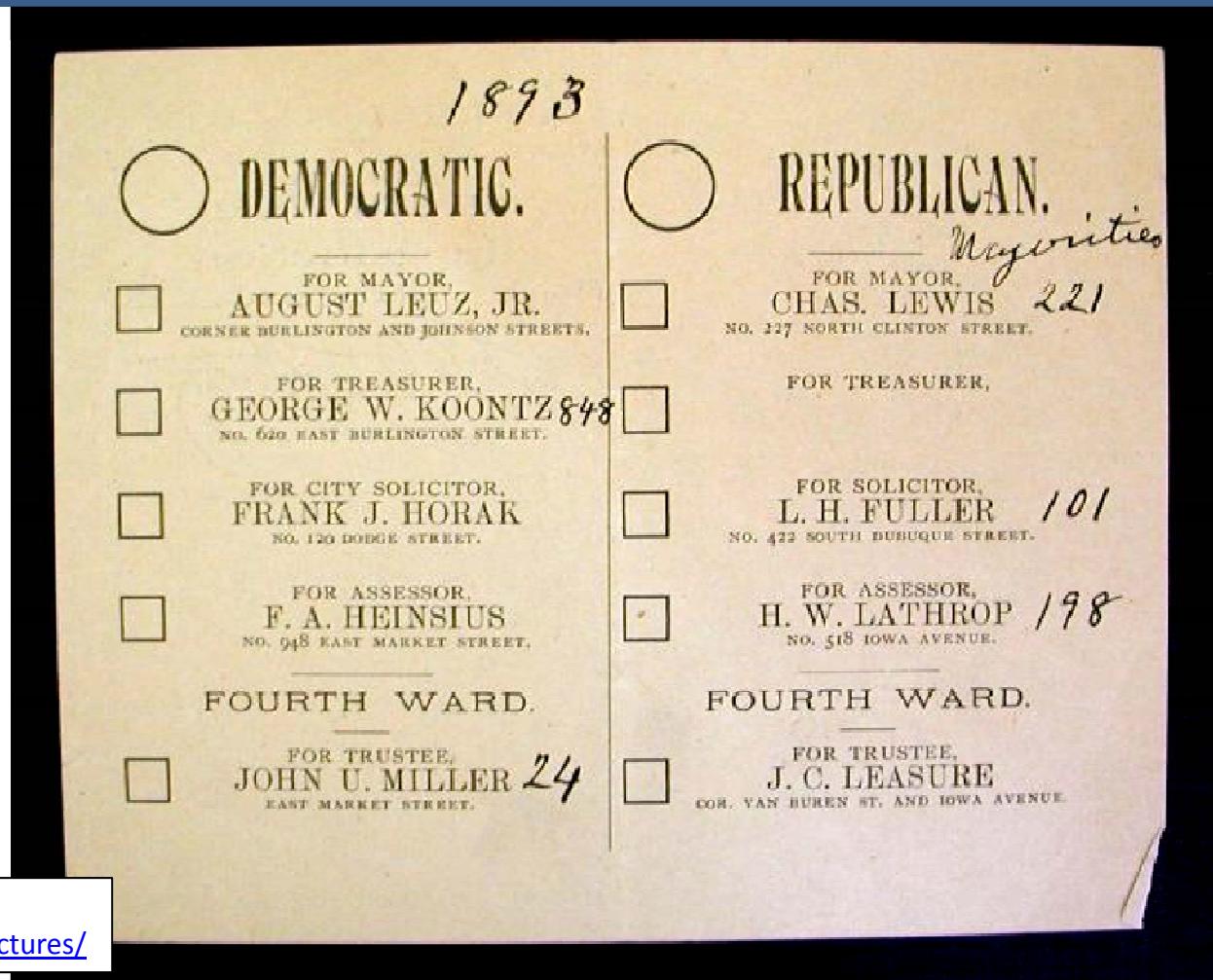
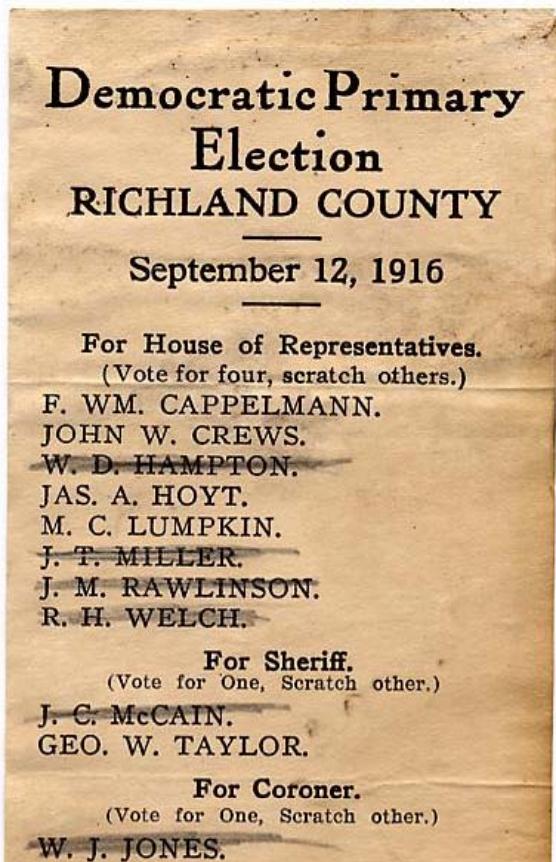
Sheet of Party Tickets

Color Ballot
Virginia, 1860



The Australian Ballot

2.3 The Australian Ballot

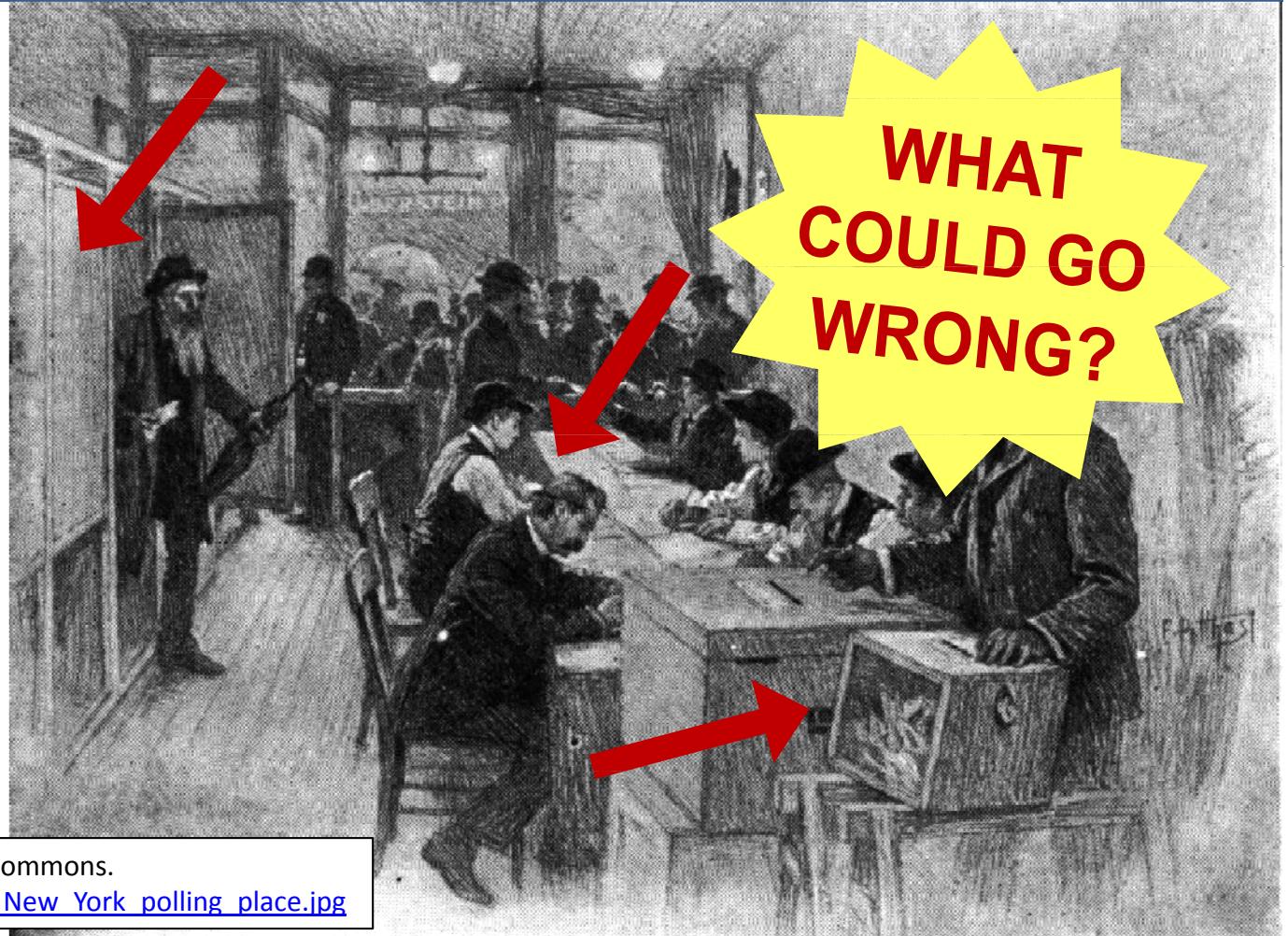


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<http://homepage.cs.uiowa.edu/~jones/voting/pictures/>

2.3 The Australian Ballot

Polling Place
New York, c.1900



Public domain image from Wikimedia Commons.

http://en.wikipedia.org/wiki/File:1900_New_York_polling_place.jpg

2.3 The Australian Ballot

"As long as I count the votes, what are you going to do about it?"



Public domain image from Wikimedia Commons,
http://en.wikipedia.org/wiki/File:Boss_Tweed,_Nast.jpg.

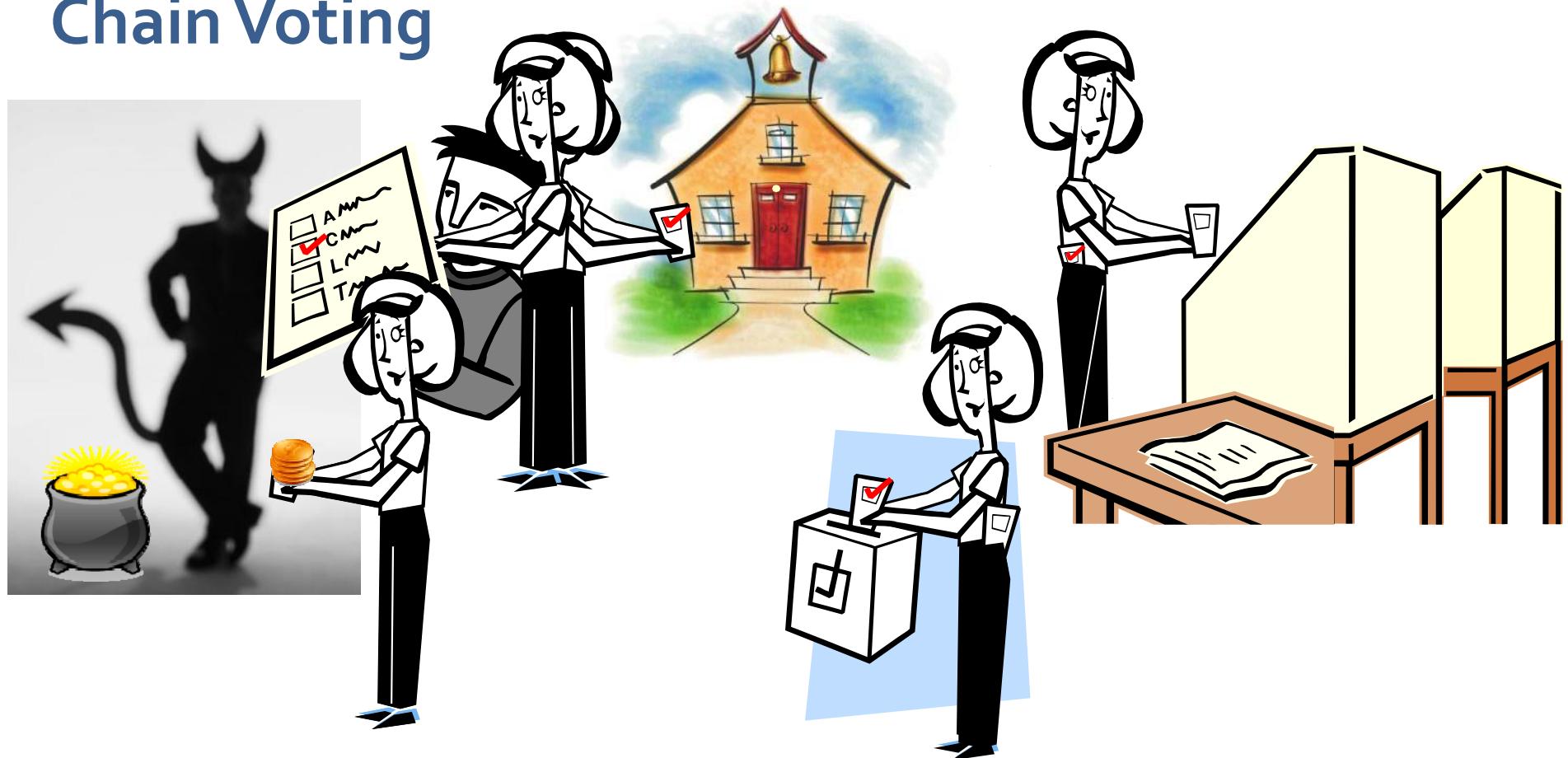
"THAT'S WHAT'S THE MATTER."

As long as I count the Votes, what are you going to do about it? say?"

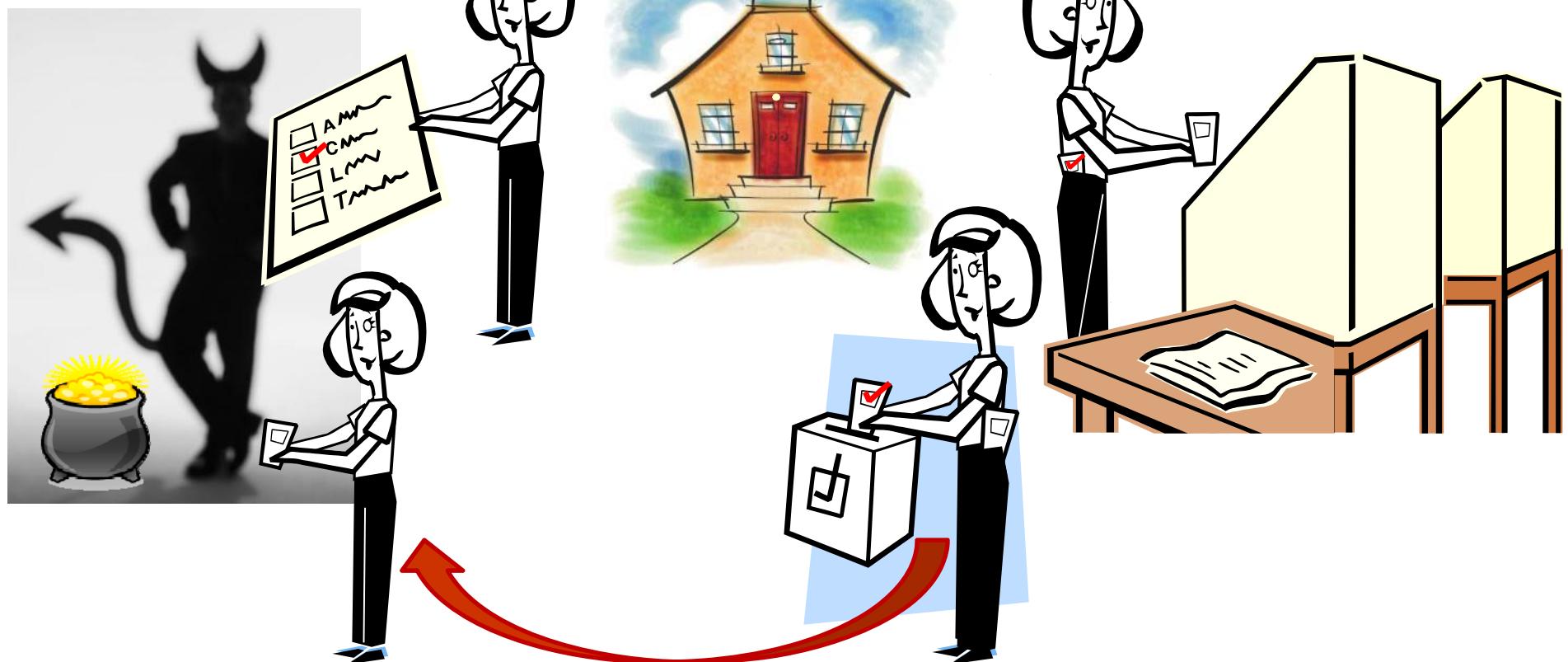
Boss Tweed

c.1871

Chain Voting



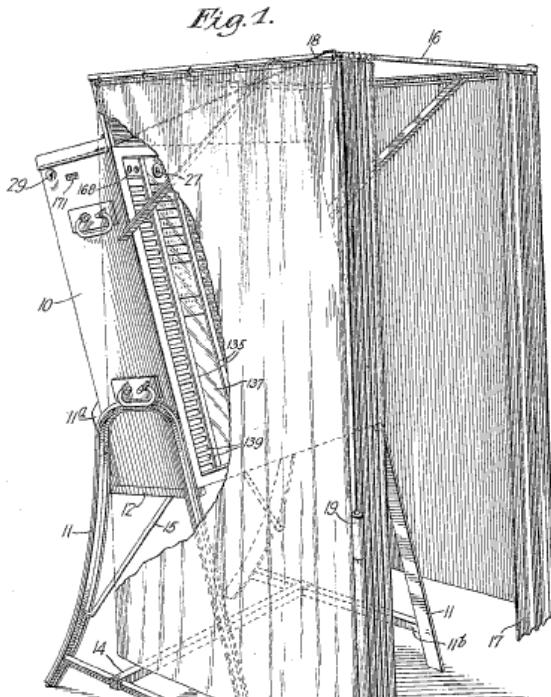
Chain Voting



Mechanical Voting Machines

2.4 Mechanical Voting Machines

Sept. 15, 1936. S. R. SHOUP ET AL 2,054,102
VOTING MACHINE
Filed July 25, 1934 27 Sheets-Sheet 1



Voting
Machine
Patent
1936

(left) Image from U.S. patent 2,054,102 (1936) via Doug Jones.
<http://homepage.cs.uiowa.edu/~jones/voting/pictures/>
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<http://americanhistory.si.edu/vote/votingmachine.html>



Voting Machine
1890s

2.4 Mechanical Voting Machines



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<http://americanhistory.si.edu/vote/votingmachine.html>

2.4 Mechanical Voting Machines



Photo by Dan Wallach, used with permission.
<http://www.cs.rice.edu/~dwallach/photo/avm-lever/>

Lever Voting Machine
AVM Printomatic

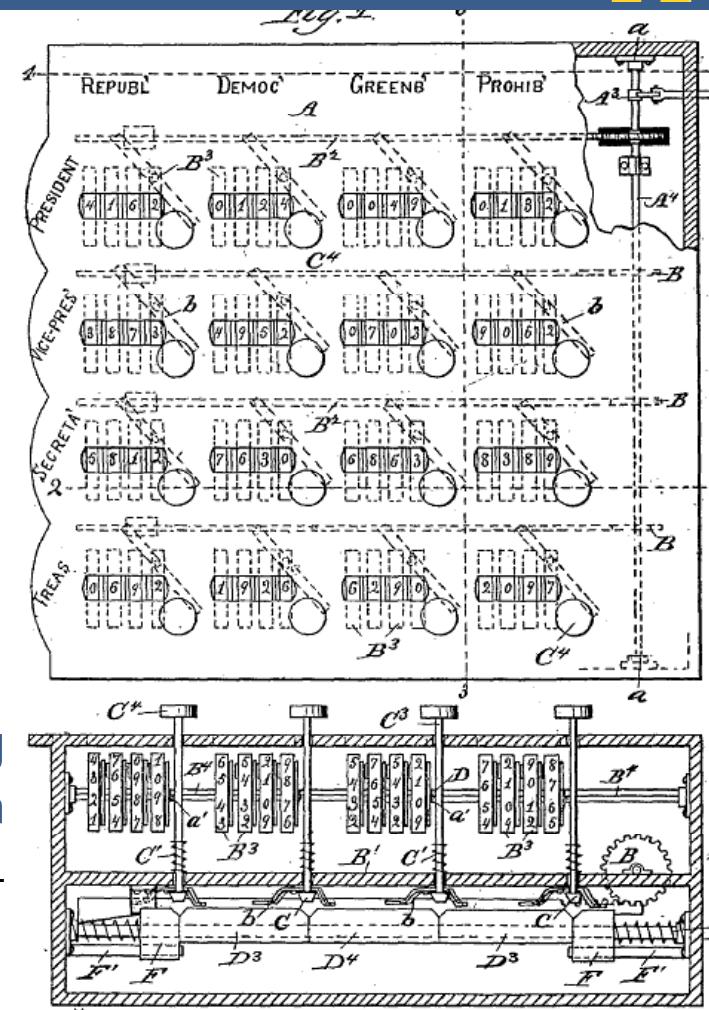
2.4 Mechanical Voting Machines

| OFFICES | PRESIDENTIAL ELECTORS FOR PRESIDENT AND VICE-PRESIDENT (Vote for One Party) | Representative in Congress THIRD DISTRICT (Vote for One) | AUDITOR GENERAL (Vote for One) | STATE TREASURER (Vote for One) |
|--------------------------|--|--|-----------------------------------|-----------------------------------|
| DEMOCRATIC | 1A GEORGE S. McGOVERN R. SARGENT SHRIVER | 3A WILLIAM J. GREEN | 4A ROBERT P. CASEY | 5A GRACE M. SLOAN |
| REPUBLICAN | 1B RICHARD M. NIXON SPIRO T. AGNEW | 3B ALFRED MARROLETI | 4B FRANKLIN M. McCORKEL | 5B GLENN E. WILLIAMS, JR. |
| Constitutional | 1C JOHN G. SCHMITZ THOMAS L. ANDERSON | 3C | 4C STEPHEN P. DEPUE | 5C MARY ALICE BACKMAN |
| SOCIALIST WORKERS | 1D LINDA JENNESS ANDREW PULLEY | 3D JOSEPH SANDERS | 4D HARVEY K. McARTHUR | 5D |
| | 1E | 3E | 4E | 5E |
| MALCOLM X | 1F 3F | 4F | 5F | |

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<http://americanhistory.si.edu/vote/votingmachine.html>

(right) Public domain image from U.S. Pat 248,130

Lever Voting
Ballot Layout
Philadelphia, 1972



2.4 Mechanical Voting Machines



Photo by Dan Wallach, used with permission.

<http://www.cs.rice.edu/~dwallach/photo/avm-lever/>

2.4 Mechanical Voting Machines



Photo by Dan Wallach, used with permission.

<http://www.cs.rice.edu/~dwallach/photo/avm-lever/>

2.4 Mechanical Voting Machines



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Punched Card Voting

2.5 Punched Card Voting

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IBM Port-a-Punch

1959

Public domain image from Smithsonian Institution.
<http://americanhistory.si.edu/vote/punchcard.html>

2.5 Punched Card Voting



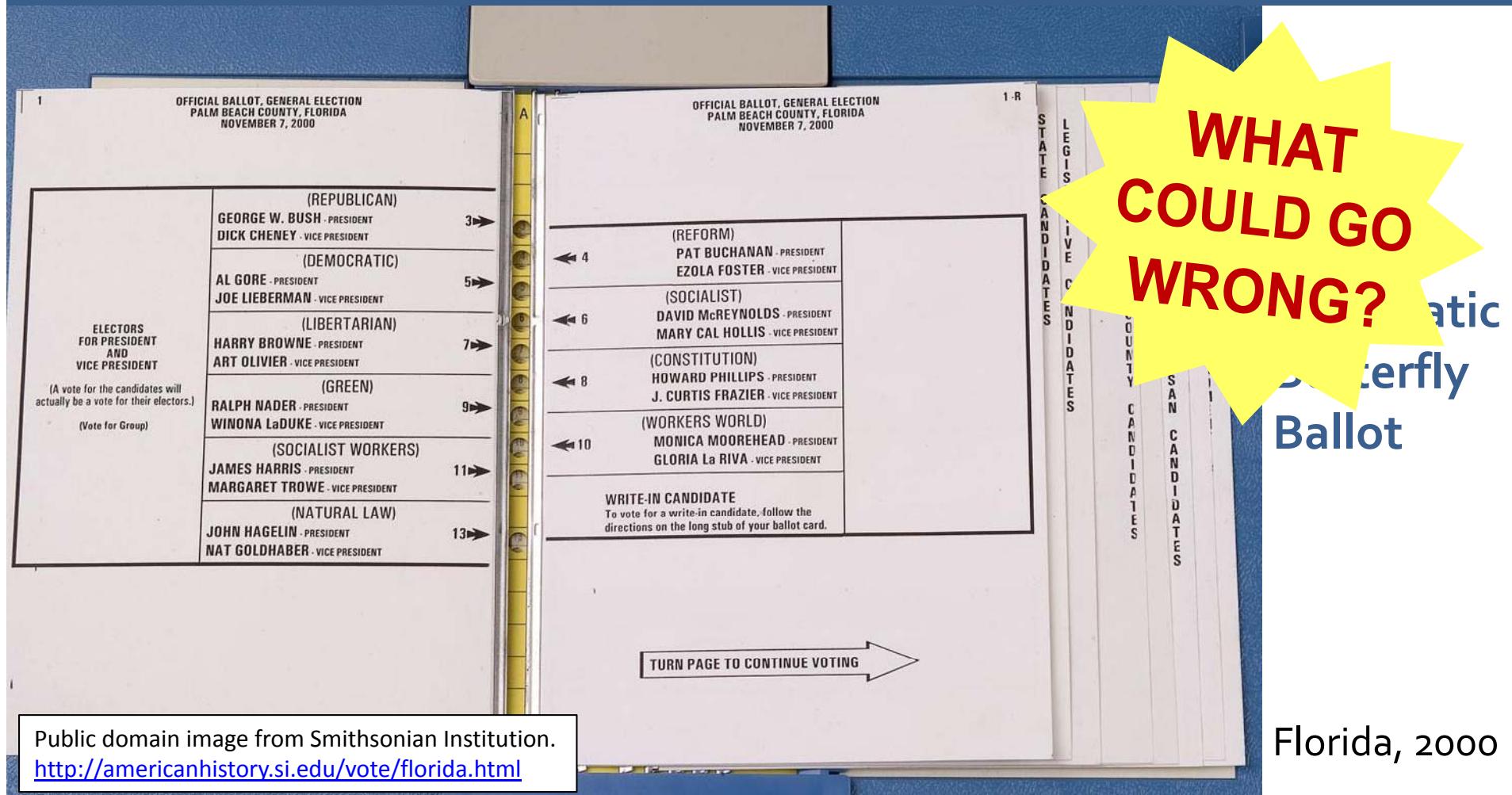
Public domain images from Smithsonian Institution.
<http://americanhistory.si.edu/vote/punchcard.html>

Votomatic
Vote Recorder
1964

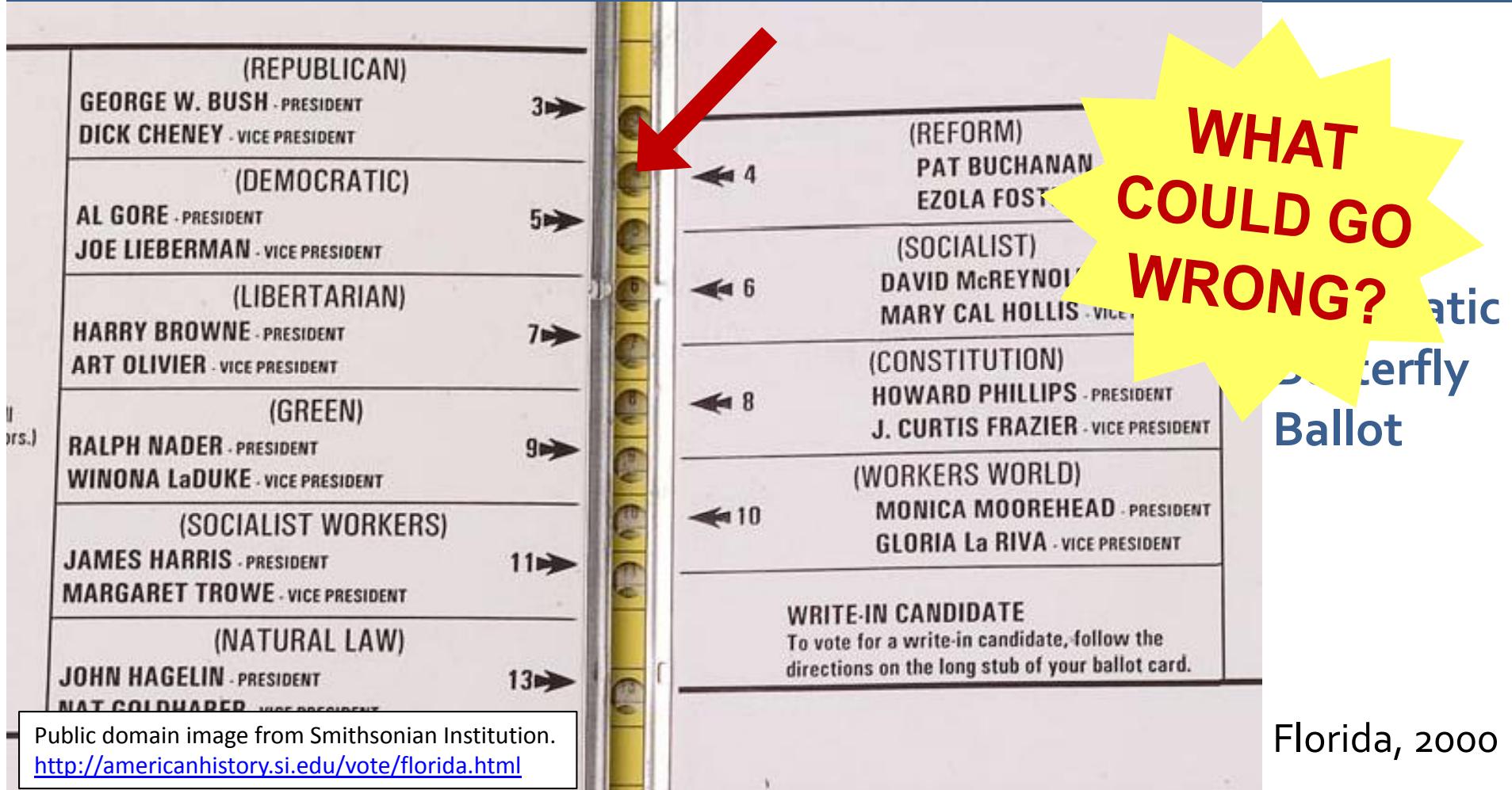
Votomatic
Punch Card



2.5 Punched Card Voting



2.5 Punched Card Voting



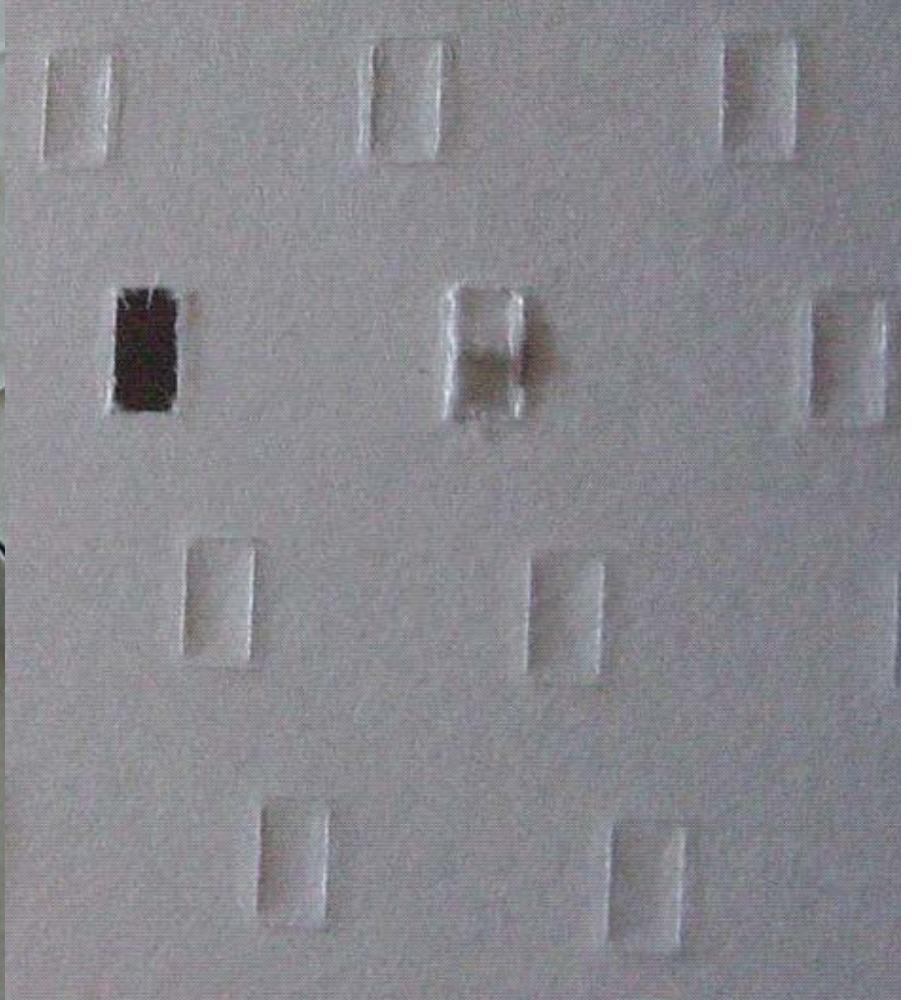
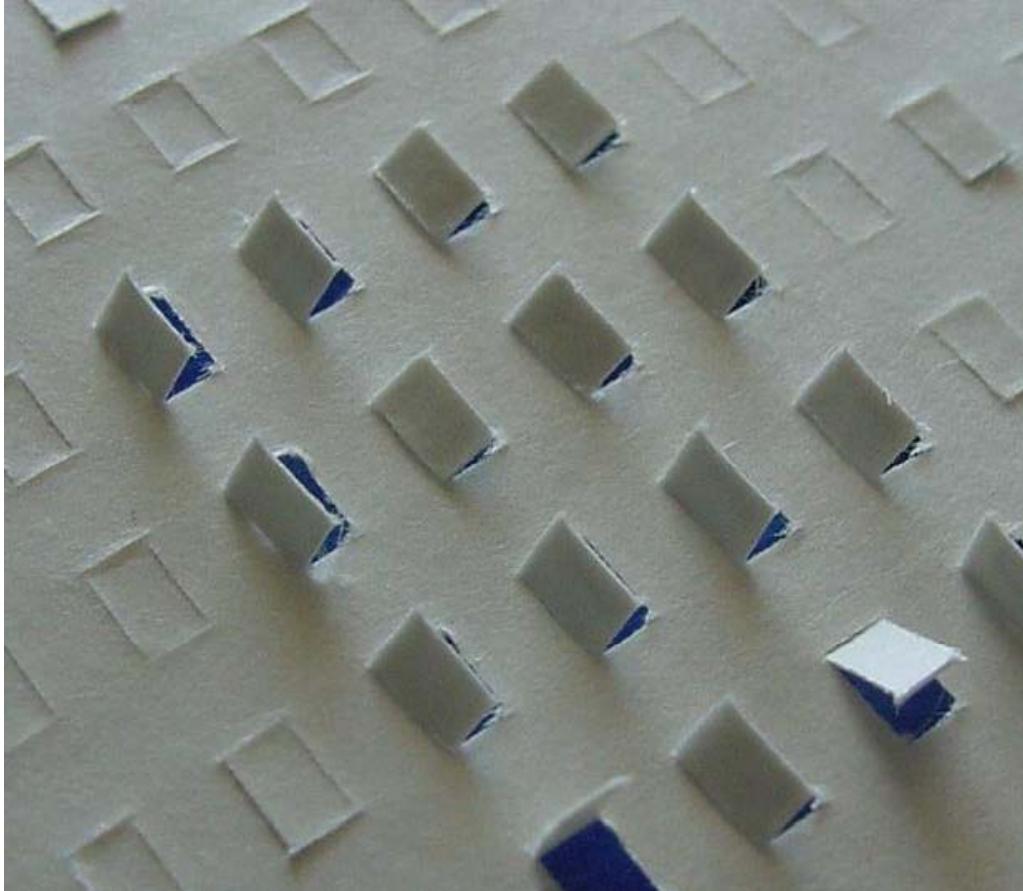
2.5 Punched Card Voting



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2.5 Punched Card Voting

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<http://homepage.cs.uiowa.edu/~jones/voting/pictures/>

Touch-screen
Electronic
Voting Machine

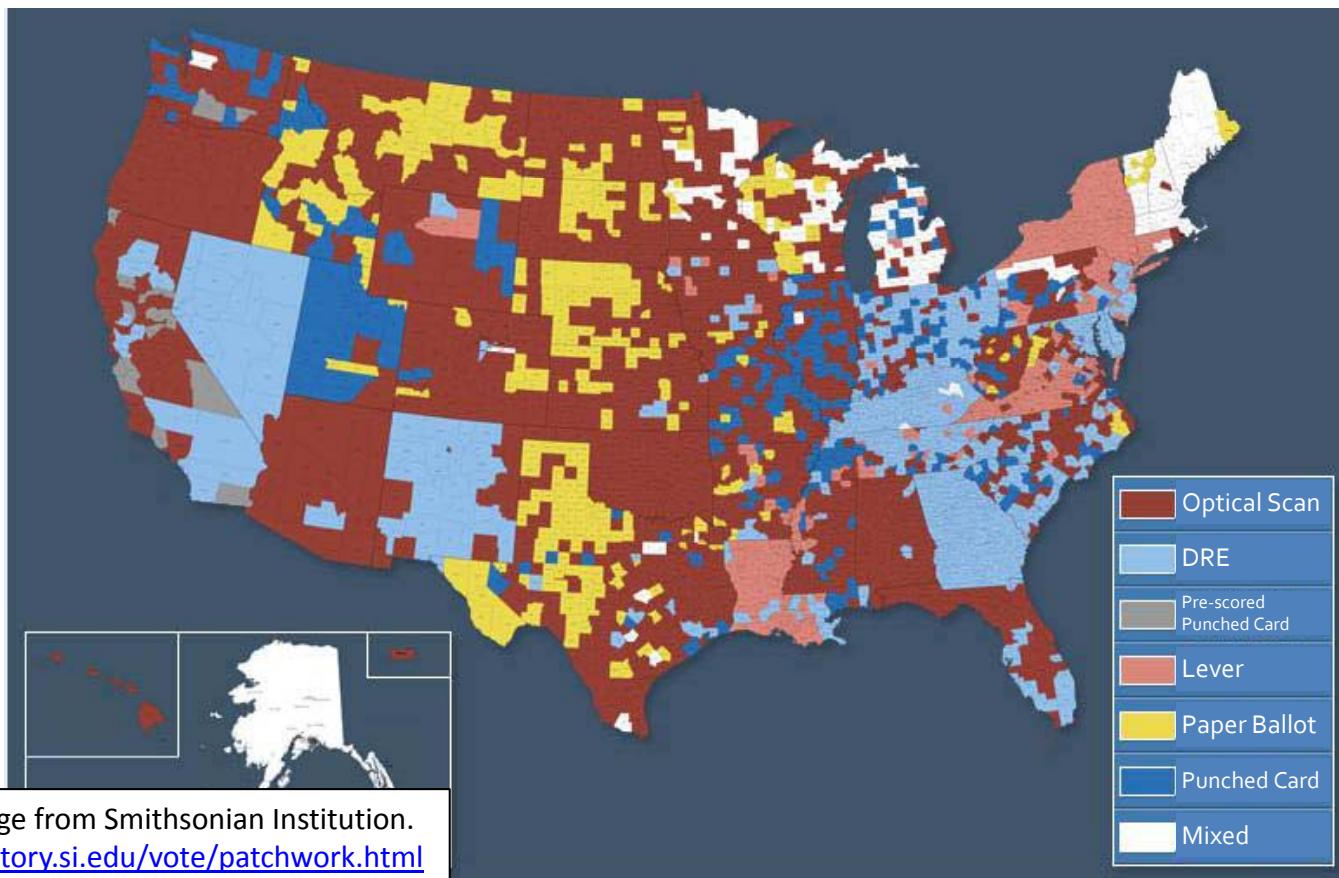
Optical Scan
Voting Machine



Public domain images from Smithsonian Institution.
<http://americanhistory.si.edu/vote/future.html>



Type of Voting Equipment by County, 2004



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Lecture 2 | *How We Got Here*



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