

Baby Names MiniProject

Overview

What's Your Name This Year?

- <http://time.com/3856405/baby-name-popularity/>

Hello my name is

NAME	<input type="text" value="Jennifer"/>
BORN	<input type="text" value="1994"/>
SEX	<input type="radio"/> Male <input checked="" type="radio"/> Female

GET MY TODAY NAME

“Jennifer” was the 21st most popular girl’s name in 1994









What's My Name Today?

My name today would be

Grace



My Name Years Ago

<p>My 2000s name is</p> <p>Alexandra</p> <p> </p>	<p>My 1990s name is</p> <p>Crystal</p> <p> </p>
<p>My 1980s name is</p> <p>Erica</p> <p> </p>	<p>My 1970s name is</p> <p>Barbara</p> <p> </p>

My Name a Long Time Ago

My 1920s name is

Edith



My 1910s name is

Lucille



My 1900s name is

Sarah



My 1890s name is

Cora



Extracting Information from Data

- US Government releases baby-name data



Extracting Information from Data

- US Government releases baby-name data
 - Every year since 1880, both male and female

```
yob1880.txt yob1895.txt yob1910.txt yob1925.txt yob1940.txt yob1955.txt yob1970.txt yob1985.txt yob2000.txt
yob1881.txt yob1896.txt yob1911.txt yob1926.txt yob1941.txt yob1956.txt yob1971.txt yob1986.txt yob2001.txt
yob1882.txt yob1897.txt yob1912.txt yob1927.txt yob1942.txt yob1957.txt yob1972.txt yob1987.txt yob2002.txt
yob1883.txt yob1898.txt yob1913.txt yob1928.txt yob1943.txt yob1958.txt yob1973.txt yob1988.txt yob2003.txt
yob1884.txt yob1899.txt yob1914.txt yob1929.txt yob1944.txt yob1959.txt yob1974.txt yob1989.txt yob2004.txt
yob1885.txt yob1900.txt yob1915.txt yob1930.txt yob1945.txt yob1960.txt yob1975.txt yob1990.txt yob2005.txt
yob1886.txt yob1901.txt yob1916.txt yob1931.txt yob1946.txt yob1961.txt yob1976.txt yob1991.txt yob2006.txt
yob1887.txt yob1902.txt yob1917.txt yob1932.txt yob1947.txt yob1962.txt yob1977.txt yob1992.txt yob2007.txt
yob1888.txt yob1903.txt yob1918.txt yob1933.txt yob1948.txt yob1963.txt yob1978.txt yob1993.txt yob2008.txt
yob1889.txt yob1904.txt yob1919.txt yob1934.txt yob1949.txt yob1964.txt yob1979.txt yob1994.txt yob2009.txt
yob1890.txt yob1905.txt yob1920.txt yob1935.txt yob1950.txt yob1965.txt yob1980.txt yob1995.txt yob2010.txt
yob1891.txt yob1906.txt yob1921.txt yob1936.txt yob1951.txt yob1966.txt yob1981.txt yob1996.txt yob2011.txt
yob1892.txt yob1907.txt yob1922.txt yob1937.txt yob1952.txt yob1967.txt yob1982.txt yob1997.txt yob2012.txt
yob1893.txt yob1908.txt yob1923.txt yob1938.txt yob1953.txt yob1968.txt yob1983.txt yob1998.txt yob2013.txt
yob1894.txt yob1909.txt yob1924.txt yob1939.txt yob1954.txt yob1969.txt yob1984.txt yob1999.txt yob2014.txt
```

Extracting Information from Data

- US Government releases baby-name data
 - Every year since 1880, both male and female
 - File names share format
 - File contents are similarly formatted

```
yob2000.txt yob2003.txt yob2006.txt yob2009.txt  
yob2012.txt yob2001.txt yob2004.txt yob2007.txt  
yob2010.txt yob2013.txt yob2002.txt yob2005.txt  
yob2008.txt yob2011.txt yob2014.txt
```


File Format for yob2014.txt

- Lines ordered by number of names

Emma, F, 20799

Olivia, F, 19674

Sophia, F, 18490

Isabella, F, 16950

Ava, F, 15586

Mia, F, 13442

Emily, F, 12562

Abigail, F, 11985

...

...

File Format for yob2014.txt

- Lines ordered by number of names
 - Female names precede male names

Emma, F, 20799

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Sophia, F, 18490

Isabella, F, 16950

Ava, F, 15586

Mia, F, 13442

Emily, F, 12562

Abigail, F, 11985

...

...

Zyrihanna, F, 5

Zyriyah, F, 5

Noah, M, 19144

Liam, M, 18342

Mason, M, 17092

Jacob, M, 16712

William, M, 16687

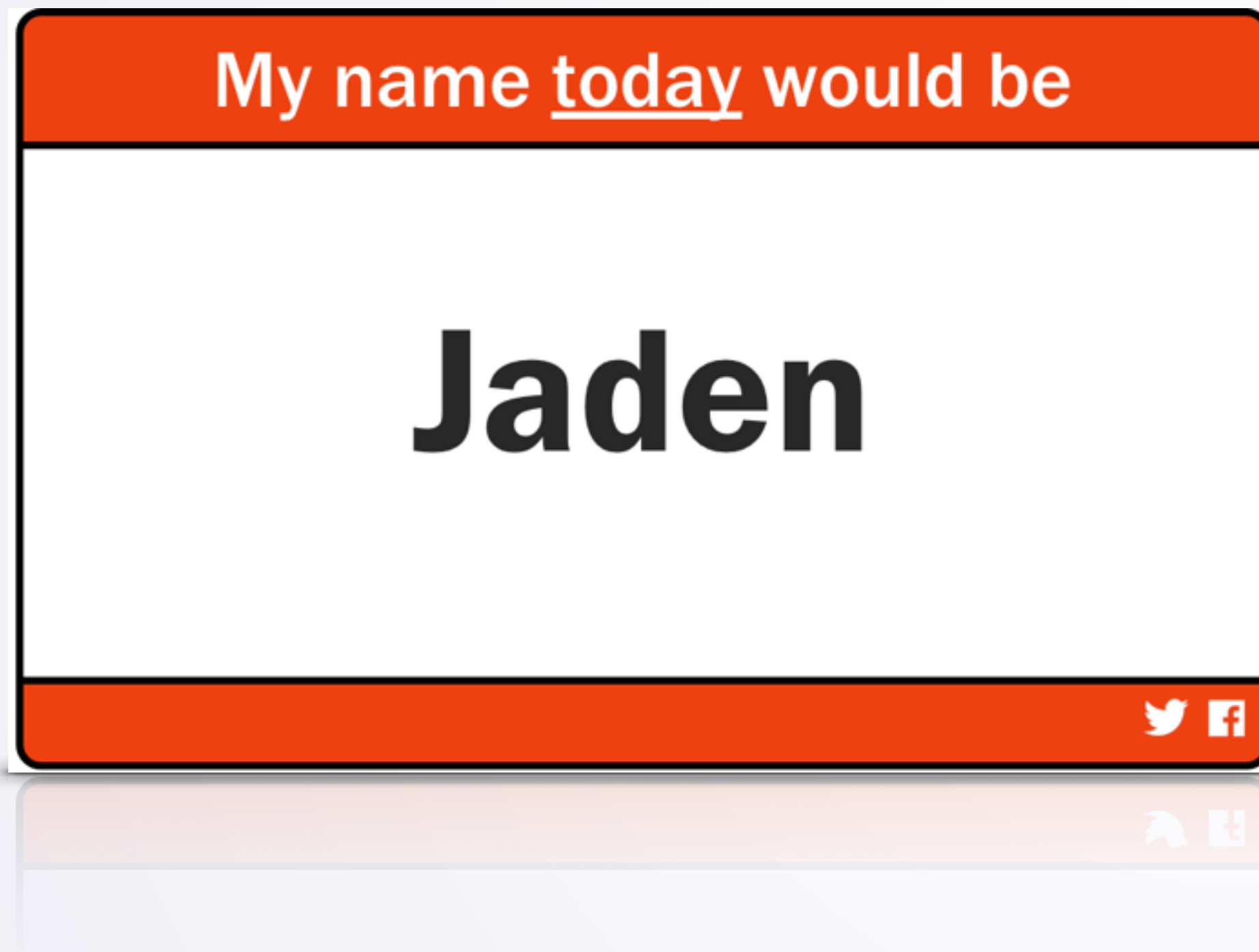
Ethan, M, 15619

Michael, M, 15323

Alexander, M, 15293

Finding Information in One File

- Using the edu.duke library



Finding Information in One File

- Using the edu.duke library
 - Create a FileResource for yobXYZW.txt
 - Call getCSVParser(false) — no header row

```
public void readOneFile(int year) {  
    String fname = "data/yob" + year + ".txt";  
    FileResource fr = new FileResource(fname);  
    CSVParser parser = fr.getCSVParser(false);  
    for (CSVRecord rec : parser) {  
        String name = rec.get(0);  
        String gender = rec.get(1);  
    }  
}
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- Using the edu.duke library
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 - Access CSVRecord data by index: 0-based

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