Web Scraping II

Recap of Web Scraping I

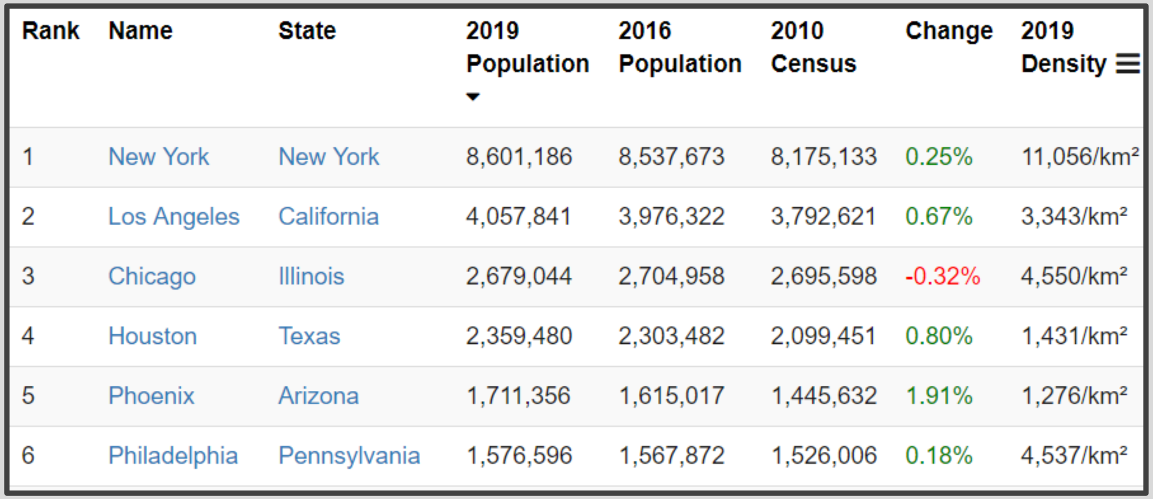
- Final 3 Data Frames From Last Tutorial Should All Be Saved to CSV's on PC
  - FINAL_VIOLENT.CSV
  - FINAL_ZIP.CSV
  - FINAL_STATE_ABBREV.CSV
- Think About What Other City Information Could Potentially Be a Factor in Violent Crimes
- Think About What Other City Information Could Potentially Be Influenced by the Prevalence of Violent Crimes

Tutorial 8 Introduction

- Step 1: Open Tutorial 8
- Step 2: Ensure You Have the Following R Packages Installed
  - tidyverse
  - rvest (Requires Internet)
- Step 3: Switch Knitter
- Step 4: Read the Introduction

Part 1: Connection to Population Change and Density

- Step 1: Select the Link and Observe the Following Table



Rank	Name	State	2019 Population	2016 Population	2010 Census	Change	2019 Density
1	New York	New York	8,601,186	8,537,673	8,175,133	0.25%	11,056/km²
2	Los Angeles	California	4,057,841	3,976,322	3,792,621	0.67%	3,343/km²
3	Chicago	Illinois	2,679,044	2,704,958	2,695,598	-0.32%	4,550/km²
4	Houston	Texas	2,359,480	2,303,482	2,099,451	0.80%	1,431/km²
5	Phoenix	Arizona	1,711,356	1,615,017	1,445,632	1.91%	1,276/km²
6	Philadelphia	Pennsylvania	1,576,596	1,567,872	1,526,006	0.18%	4,537/km²

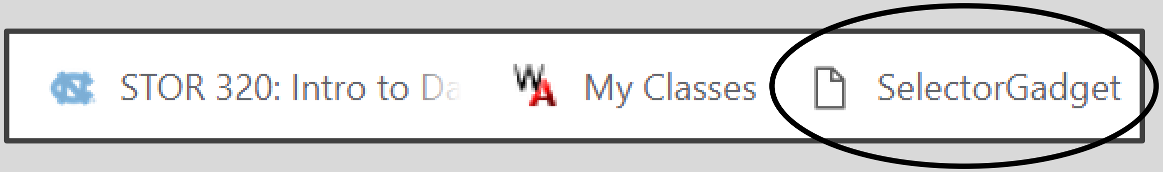
- Step 2: Questions?
  - What is the Connection to Violent Crimes?
  - How is this Useful When Related to Violent Crimes?

Part 1: Connection to Population Change and Density

- Step 3: Run Chunk 1
  - What is required to convert the Percentage Change to a numeric variable?
  - What is required to convert the 2019 Density to a numeric variable?
- Step 4: Run Chunk 2
  - Notice: /.*
- Step 5: No-Knitter

Part 2: Inclusion of Expert Opinion

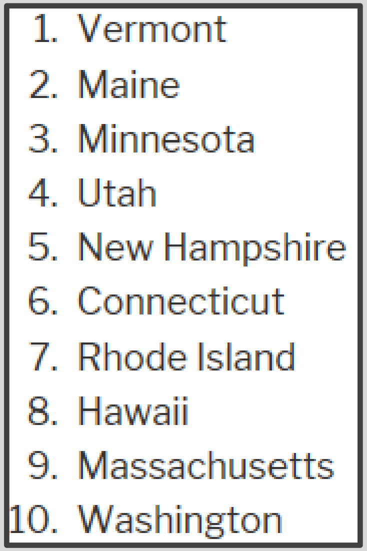
- Step 1: Selector Gadget Website
  - Open Source
  - Chrome Extension Exists
  - Easy: Drag Link to Bookmark Bar as Webpage Explains



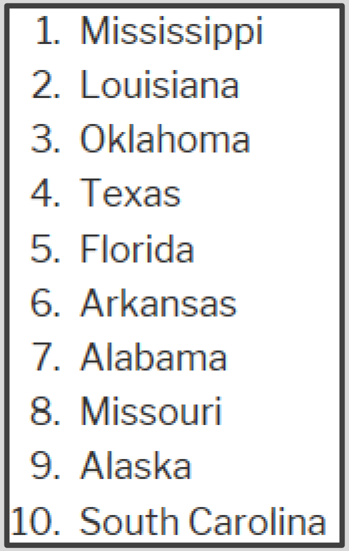
- Step 2: Observe the Article on 2018's Safest and Most Dangerous States
  - What info could be of use?
  - Do you agree identification?

Part 2: Inclusion of Expert Opinion

- Step 3: Information of Interest
  - Safe vs Dangerous



1. Vermont
2. Maine
3. Minnesota
4. Utah
5. New Hampshire
6. Connecticut
7. Rhode Island
8. Hawaii
9. Massachusetts
10. Washington

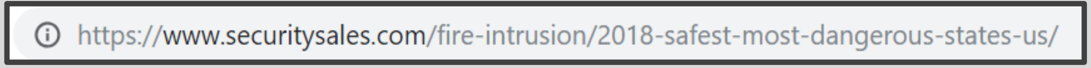


1. Mississippi
2. Louisiana
3. Oklahoma
4. Texas
5. Florida
6. Arkansas
7. Alabama
8. Missouri
9. Alaska
10. South Carolina

  - Goal: Scrape this Information into Vectors in R to Create a Table

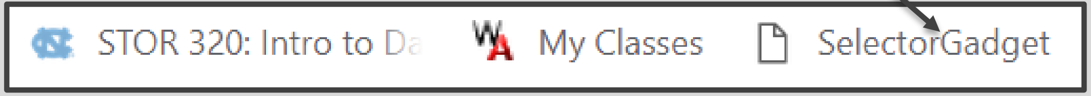
Part 2: Inclusion of Expert Opinion

- Step 4: Identifying CSS Selector
  - Go to Web Page

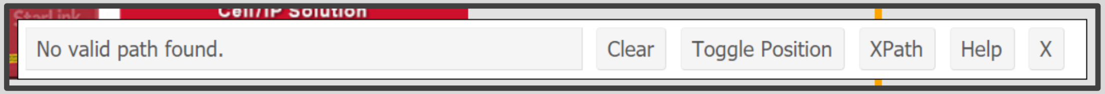


https://www.securitysales.com/fire-intrusion/2018-safest-most-dangerous-states-us/

  - Choose SelectorGadget in Bookmark Tab



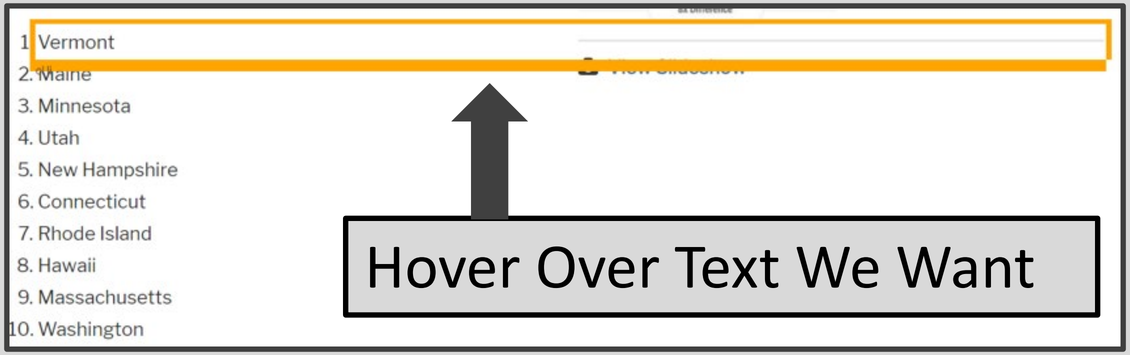
  - Locate This Box



No valid path found.

Part 2: Inclusion of Expert Opinion

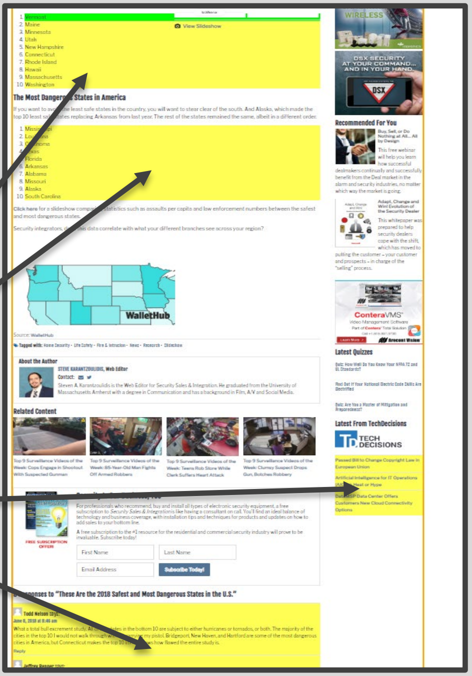
- Step 4: Continued
  - Find Content You Want



1. Vermont
2. Maine
3. Minnesota
4. Utah
5. New Hampshire
6. Connecticut
7. Rhode Island
8. Hawaii
9. Massachusetts
10. Washington

Hover Over Text We Want

  - Point and Click to Select Info
  - Info We Want is Highlighted
  - Info We Don’t Want, As Well



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The Most Dangerous States in America

If you want to avoid the least safe states in the country, you will want to steer clear of the south. And Alaska, which made the top 10 least safe states replacing Arkansas from last year. The rest of the states remained the same, albeit in a different order.

1. Mississippi
2. Louisiana
3. Oklahoma
4. Texas
5. Florida
6. Arkansas
7. Alabama
8. Missouri
9. Alaska
10. South Carolina

Click here for a slideshow comparing statistics such as assaults per capita and law enforcement numbers between the safest and most dangerous states.

Security integrators, does this data correlate with what your different branches see across your region?

Source: WalletHub

Tagged with: Home Security - Life Safety - Fire & Intrusion - News - Research - Slideshow

About the Author

STEVE KARANTZOULIDIS, Web Editor

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Steven A. Karantzoulidis is the Web Editor for Security Sales & Integration. He graduated from the University of Massachusetts Amherst with a degree in Communication and has a background in Film, A/V and Social Media.

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[illegible]

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[illegible] Responses to “These Are the 2018 Safest and Most Dangerous States in the U.S.”

Todd Nelson says:
June 8, 2018 at 8:46 am

What a total bull excrement study. All of the states in the bottom 10 are subject to either hurricanes or tornados, or both. The majority of the cities in the top 10 I would not walk through without carrying my pistol. Bridgeport, New Haven, and Hartford are some of the most dangerous cities in America, but Connecticut makes the top 10 list shows how flawed the entire study is.

Reply

Jeffrey Renner says:

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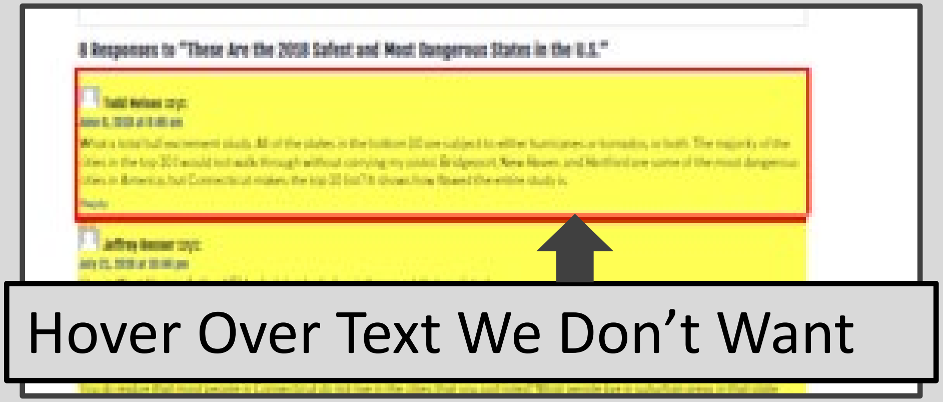
Part 2: Inclusion of Expert Opinion

- Step 4: Continued
  - Find Content You Don't Want



8 Responses to "These Are the 2018 Safest and Most Dangerous States in the U.S."

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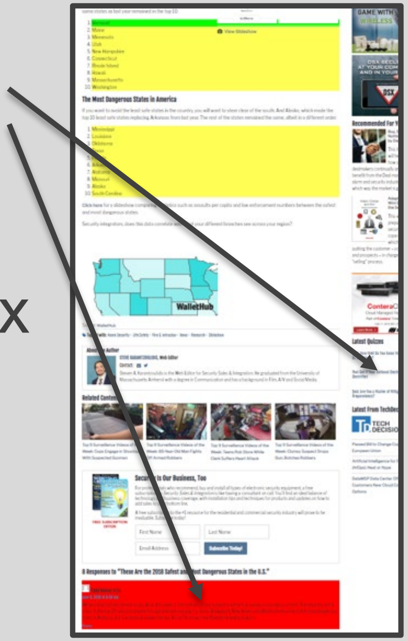
Reply

Jeffrey Benner says:

Hover Over Text We Don't Want

  - Point and Click to Deselect
  - Locate This Box

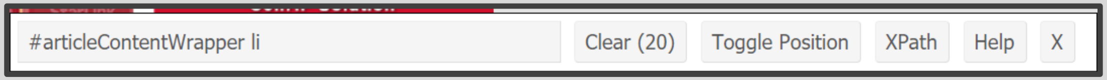


The Most Dangerous States in America

8 Responses to "These Are the 2018 Safest and Most Dangerous States in the U.S."

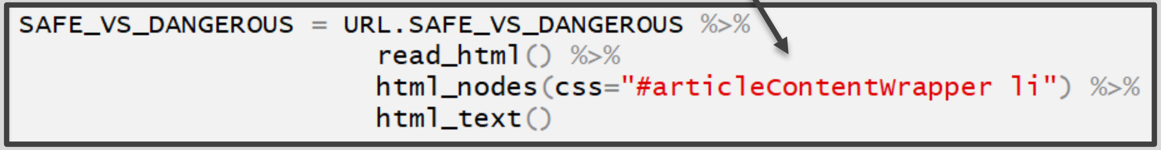
Part 2: Inclusion of Expert Opinion

- Step 4: Continued
  - Locate This Box



#articleContentWrapper li

  - Copy CSS Selector
    “#articleContentWrapper li”
- Step 5: Run Chunk 1



```
SAFE_VS_DANGEROUS = URL.SAFE_VS_DANGEROUS %>%
                      read_html() %>%
                      html_nodes(css="#articleContentWrapper li") %>%
                      html_text()
```

- Step 6: Run Chunk 2
  - What About the Other States?
- Step 7: Walk-off Knit

Closing

Disperse and Make Reasonable Decisions