## Data Cleaning Part 1

Data Wrangling in R

```
Data Cleaning
In general, data cleaning is a process of investigating your data for inaccuracies, or recoding it in a way that makes it more manageable.
MOST IMPORTANT RULE - LOOK AT YOUR DATA!
```

## Read in the UFO dataset

Read in data or download from: http://sisbid.github.io/Data-Wrangling/data/ufo/ufo\_data\_complete.csv.gz

```
ufo <- read_delim("https://sisbid.github.io/Data-Wrangling,
Warning: One or more parsing issues, call `problems()` on ;
e.g.:</pre>
```

e.g.:
 dat <- vroom(...)
 problems(dat)</pre>

```
Rows: 88875 Columns: 11
-- Column specification ------
Delimiter: ","
chr (10): datetime, city, state, country, shape, duration
```

dbl (1): duration (seconds)

i Use `spec()` to retrieve the full column specification for

```
Checking
nrow(uf
[1] 196
```

nrow(ufo)-nrow(ufo\_clean)

Clean names with the clean\_names() function from the janitor package

```
colnames(ufo_clean)
```

[1] "datetime" "city" "state"
[4] "country" "shape" "duration
[7] "duration (hours/min)" "comments" "date possible 10] "latitude" "longitude"

ufo\_clean <- clean\_names(ufo\_clean)
colnames(ufo\_clean)

[1] "datetime" "city" "state" [4] "country" "shape" "duration\_se

[7] "duration\_hours\_min" "comments"
[10] "latitude" "longitude"

ts" "date\_posted

## Recoding Variables

Rows: 88,679 Columns: 11 \$ datetime

\$ city
\$ state

\$ country

\$ longitude

Exact Swaps - recode function

## Exact Swaps - recode function

ufo clean %>% mutate(country = recode(country, gb = "Great

<chr> "10/10/1949 20:30", "10/10/1949
<chr> "san marcos", "lackland afb", "end of the same of the

<chr> "tx", "tx", NA, "tx", "hi", "tn"
<chr> "us", NA, "Great Britain", "us"