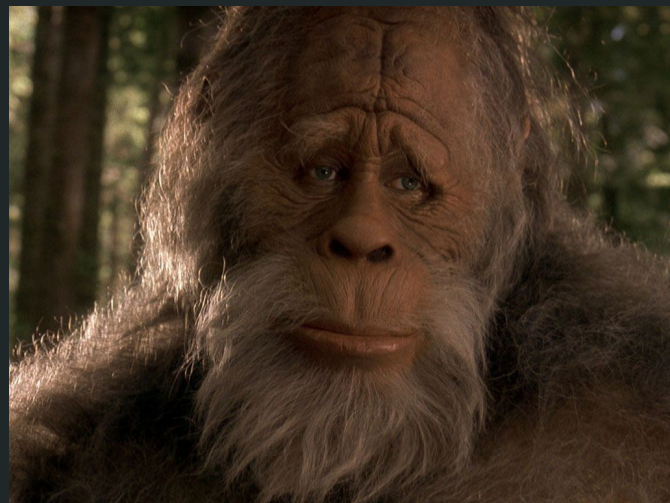


SEARCHING FOR SASQUATCH_(ES)



Unsupervised Case Study

Galvanize DSI - Cohort g45

Kenny Durell, Nikhil Makaram, Matthew Wong, Jay Zhou

Background

- There are 2,000-6,000 estimated bigfoots/bigfeet? in North America.
 - Rarely ever in groups larger than 3
 - Possibly nearing extinction
- Known as bigfoot, sasquatch, yeren, big/wild man, skookums, mountain devil...

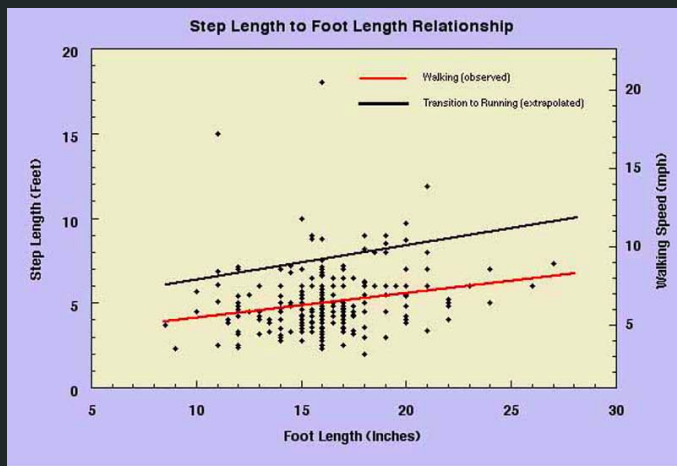


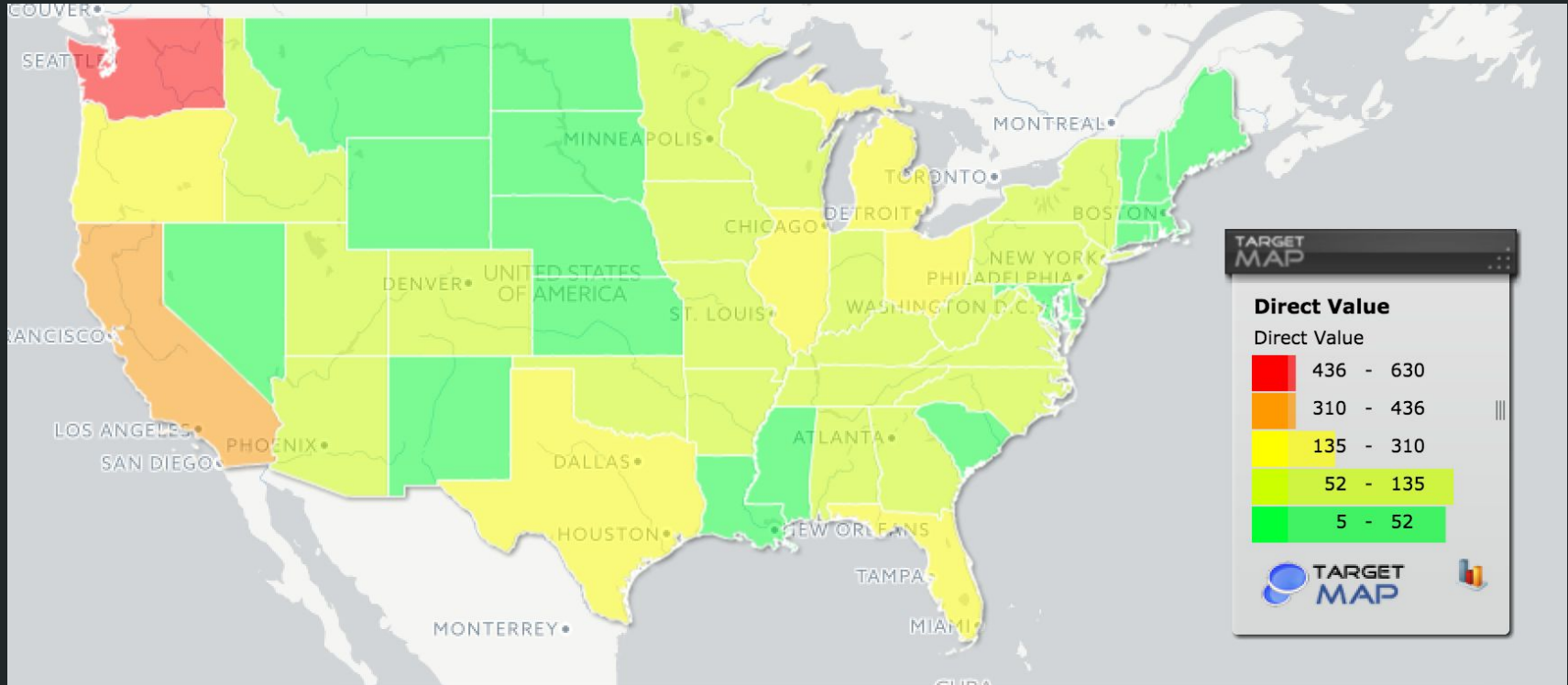
Figure 14. Gait graph. This graph is derived from 297 measured step intervals of different trackways. The lower line indicates the computed step length during calm walking, the upper line the extrapolated transition to a running step.



What we wanted to learn

- Time of year/location - where are the bigfoots right now? How sure are we?
- Predicting next bigfoot sighting locations and migration patterns
- Latent features in bigfoot sightings - are there certain types of sightings?

Bigfoot Sightings in the U.S.



Top 5 Counties to Find Bigfoot

Pierce County, WA	70
Snohomish County, WA	49
Lewis County, WA	40
King County, WA	40
Humboldt County, WA	39

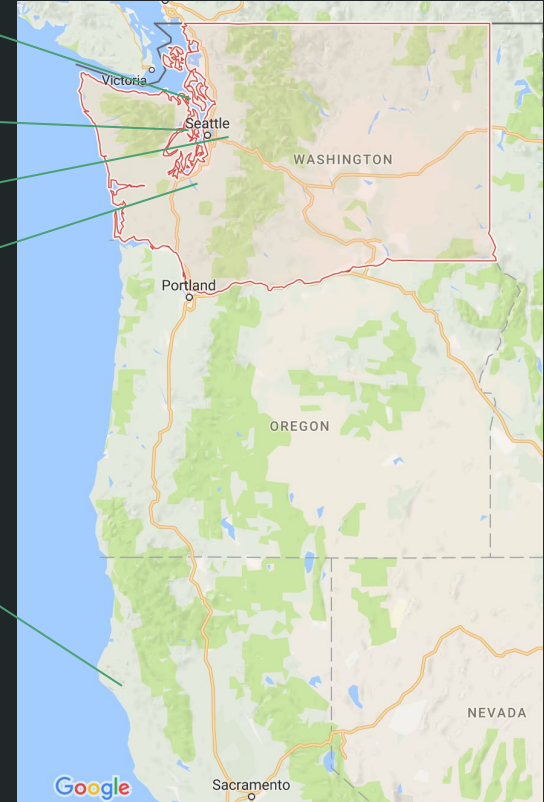
Snohomish County

Pierce County

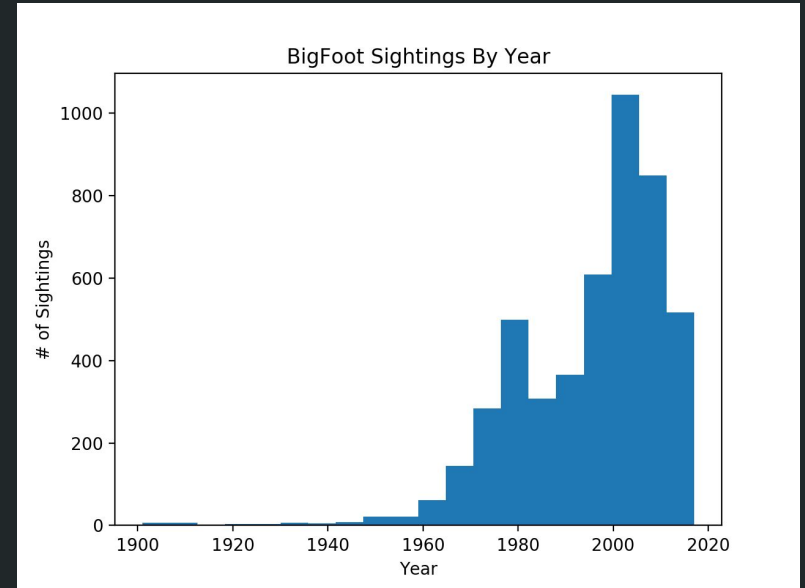
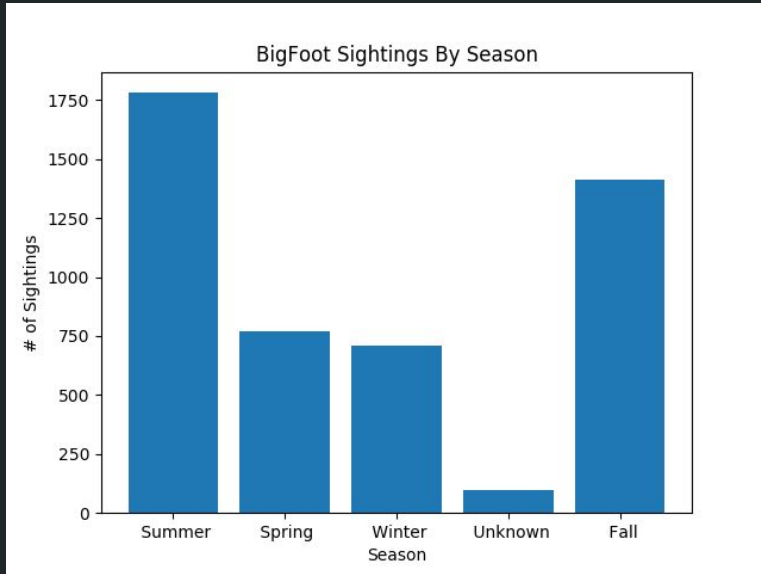
King County

Lewis County

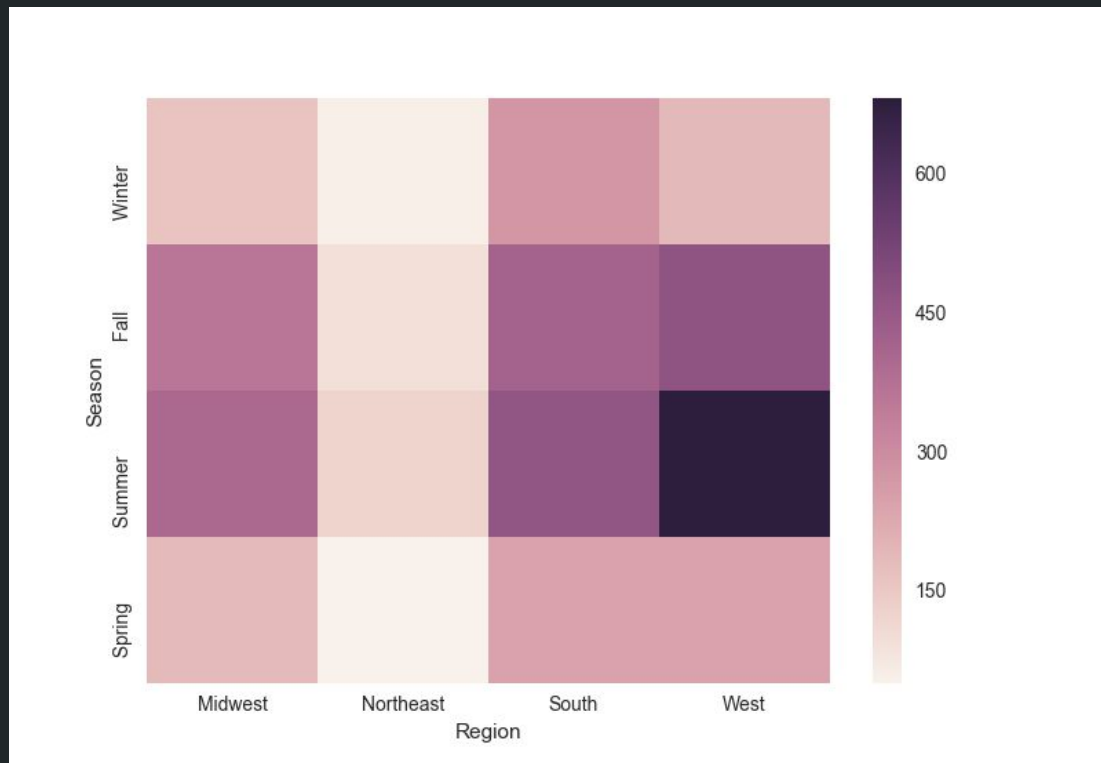
Humboldt County



Your Best Chance to See One!



Your Best Chance to See One!



Understanding the Reports

- Topic 1: tree, just, deer, river, trail, area, woods, saw, got, like
 - *Hunting*
- Topic 2: heard, sound, loud, sounds, sounded, like, scream, night, noise, tent
 - *Screams*
- Topic 3: tracks, prints, inches, snow, print, foot, track, footprints, toes, area
 - *Footprints*
- Topic 4: road, creature, car, saw, driving, tall, hair, looked, feet, dark
 - *Roads*
- Topic 5: house, window, said, door, outside, night, dog, told, saw, went
 - *Houses*

Topic Mining

Topic 1 - Hunting

- US Marine has a possible encounter with his de...
- Experienced hunter describes a brief standoff a...
- Four friends saw and heard 8 foot creature plo...
- While checking deer feeders, hunter has encoun...
- Late afternoon sighting by a deer hunter on he...

Topic: 2 - Screams

- Teenager hears unusual daytime vocalization ne...
- Woman hears sounds at Camp, near Boswell
- Horrible screaming vocalizations heard
- High-pitched growling scream heard by witnesses.
- Possible night screams heard near Burnsville

Topic: 3 - Footprints

- BFRO Investigator, Keith Foster's evaluation o...
- Homeowner follows possible track way heading i...
- Rooks Park Investigation
- Grays Harbor County Sheriff's Department Offen...
- A series of large, human-like footprints are f...

Topic: 4 - Driving

- Night sighting on Hwy 97, north of Liberty Hill
- Night time sighting by motorists on Highway 51...
- Sundown sighting near Tishomingo State Park
- Witness recalls seeing a sasquatch cross the r...
- Truck Driver recalls daylight sighting east of...

Topic: 5 - Houses

- Encounters with a hairy creature in the same a...
- Someone or something walks by house and peer...
- Witness observes a pair of glowing red eyes lo...
- Boy wakes and has sighting through bedroom win...
- Memories told of activity over several years a...

Future Work

- Heatmap of counties in the U.S.
- Sightings by year and region
- NMF on media reports to gauge acceptance of Bigfoot by the wider population
- Tying latent features to regions/area/time periods

Future Work



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