


We the New York squirrels



By Adam Mayer-Diamond

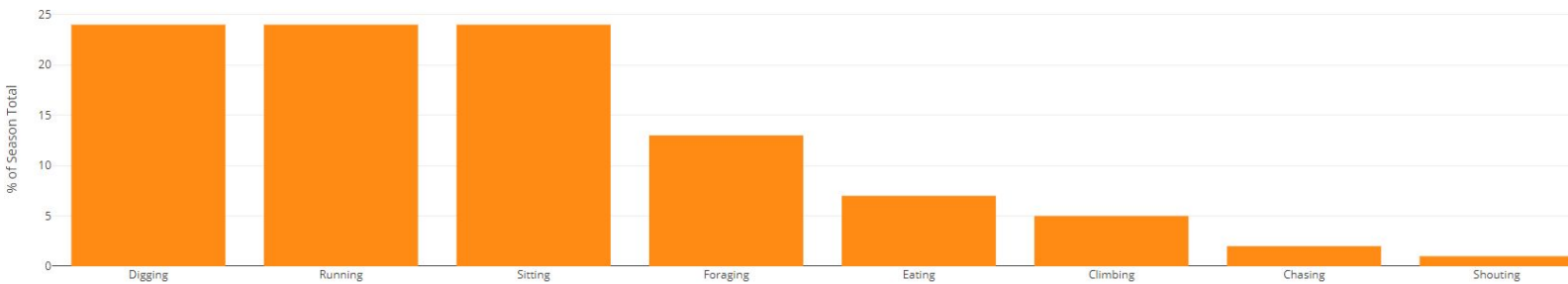


“Have you ever wondered how many squirrels are in New York parks, where they are located and what they are doing?”



“We are investigating the squirrel population, for Animal Welfare groups or Public health with an interactive application that shows a squirrel’s location”

Squirrel Activities - Autumn



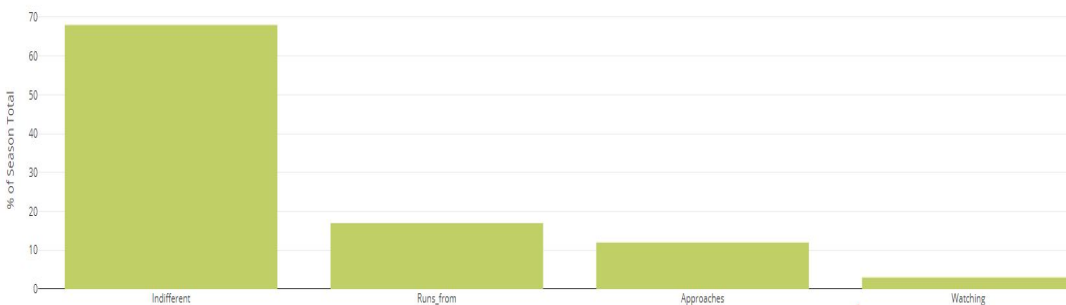
Spring Dataset Autumn Dataset Both Datasets

Activities Appearance Interactions

Spring Dataset Autumn Dataset Both Datasets

Activities Appearance Interactions

Squirrel Interactions - Spring



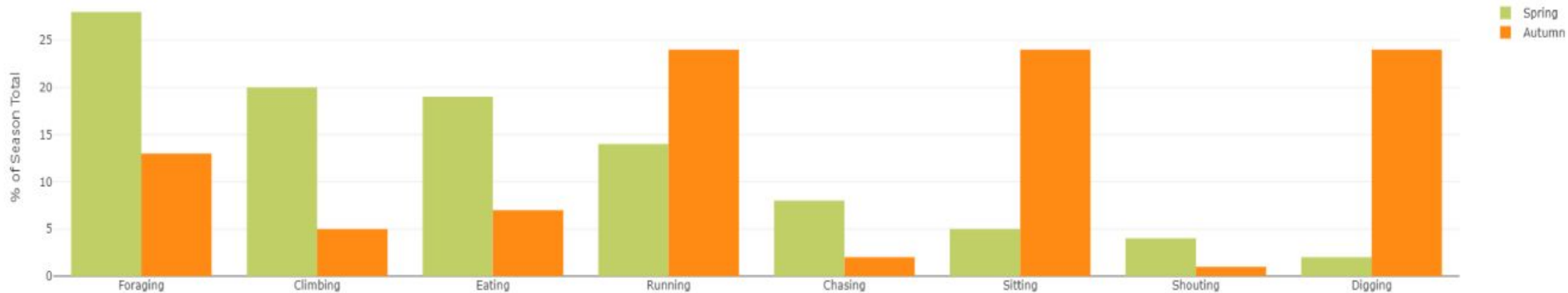
Users can select different parameters and the graph will automatically update

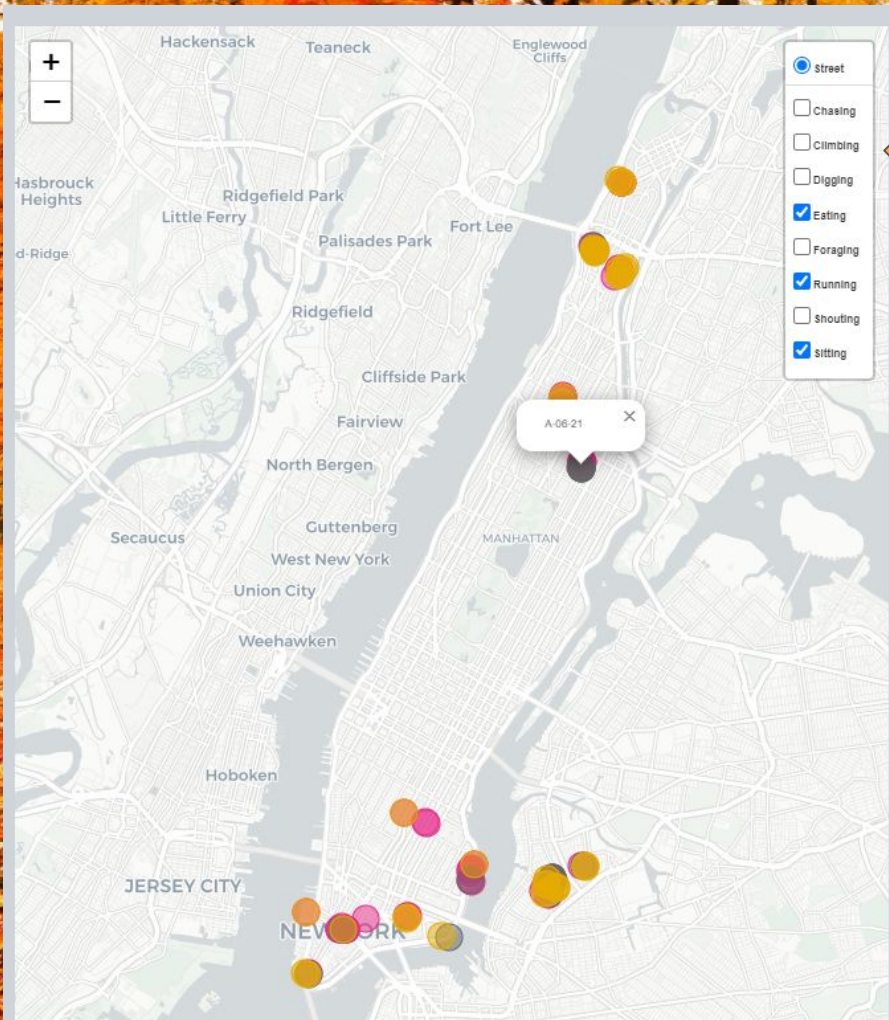


In spring
squirrels
eat fresh
berries
or
shrubs

With
winter
coming
more
time is
spent
digging

Squirrel Activities - Spring vs Autumn





Users select
intended parameter
+ the map updates

User selects
intended Dataset
+ the target

Spring Dataset

Autumn Dataset

Both Datasets

Activities

Appearance

Interactions

Key

Value

Squirrel ID

A-06-21

Date

1-3-2020

Coordinates

[40.803392, -73.944228]

Primary Colour

Gray

Highlights

Gray



Create separate CSVs

```
[87]: metadata_df = combined_df[[
      'squirrel_id', 'latitude', 'longitude', 'year', 'month', 'day'
      ]]
      metadata_df.to_csv("resources/clean/metadata.csv", index=False, header=True)

[88]: appearance_df = combined_df[[
      'squirrel_id', 'primary_colour',
      'black', 'cinnamon', 'gray', 'white'
      ]]
      appearance_df.to_csv("resources/clean/appearance.csv", index=False, header=True)

[89]: activities_df = combined_df[[
      'squirrel_id', 'chasing', 'climbing', 'digging',
      'eating', 'foraging', 'running', 'shouting', 'sitting'
      ]]
      activities_df.to_csv("resources/clean/activities.csv", index=False, header=True)

[90]: interactions_df = combined_df[[
      'squirrel_id', 'approaches', 'indifferent',
      'runs_from', 'watching'
      ]]
      interactions_df.to_csv("resources/clean/interactions.csv", index=False, header=True)
```

Broke
DataFrame
down into
smaller
ones to
present the
data



Animal Welfare
RSPCA/WWF

Track
different
species

Potentially reduce risk
of extinction

Government Agencies
State/Local

Monitor
diseases

Efficient use of
resources

A photograph of a park with trees having vibrant orange and yellow autumn leaves. The ground is covered in a thick layer of fallen leaves. A small squirrel is visible on the left side of the image.

Return on Investment

Financially

Efficient use of park
resources

Animal Safety

Extinction Prevention
Environment Preservation

Public Health

Minimize spread of
diseases



Could other species benefit from the squirrel experience?

Acknowledgements
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