

Data analysis

Core activities

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Try the easy solution first

Plot

Code

```
squirrels <- squirrels %>%  
  separate(hectare, into = c("NS", "EW"), sep = 2, remove = FALSE) %>%  
  mutate(where = if_else(NS %in% c("01", "42") | EW %in% c("A", "I"), "perimeter", "inside"))  
  
ggplot(squirrels, aes(x = long, y = lat, color = where)) +  
  geom_point(alpha = 0.2)
```

Then go deeper...

Plot

Code

```
hectare_counts <- squirrels %>%  
  group_by(hectare) %>%  
  summarise(n = n())  
  
hectare_centroids <- squirrels %>%  
  group_by(hectare) %>%  
  summarise(  
    centroid_x = mean(long),  
    centroid_y = mean(lat)  
  )  
  
squirrels %>%  
  left_join(hectare_counts, by = "hectare") %>%  
  left_join(hectare_centroids, by = "hectare") %>%  
  ggplot(aes(x = centroid_x, y = centroid_y, color = n)) +  
  geom_hex()
```