

# VE414 Project

## How to run this program?

```
1 | julia main.jl
```

## What's the output?

### 1. CSV Files:

- All CSV output files are in `csv`
- You can find example output files in `csv.example`
  - `tree_position.csv` is the position of Jiuling on observed area
  - `tree_position_overall.csv` is the position of all Jiulings

### 2. Plot Files:

- All png files are in `pic`
- You can find example output in `pic.example`
  - `fig0.png` is the trip of all of them
  - `fig1.png` is the separate trip
  - `fig7.png` is an simple plot of close and far Tayses
  - `fig5.png` is the beautiful plot of close and far Tayses
  - `fig6.png` gives the position of pridiced Juiling in observed area and unobserved area

### 3. Terminal print

- There is **NO** terminal output, you can ignore all the print.

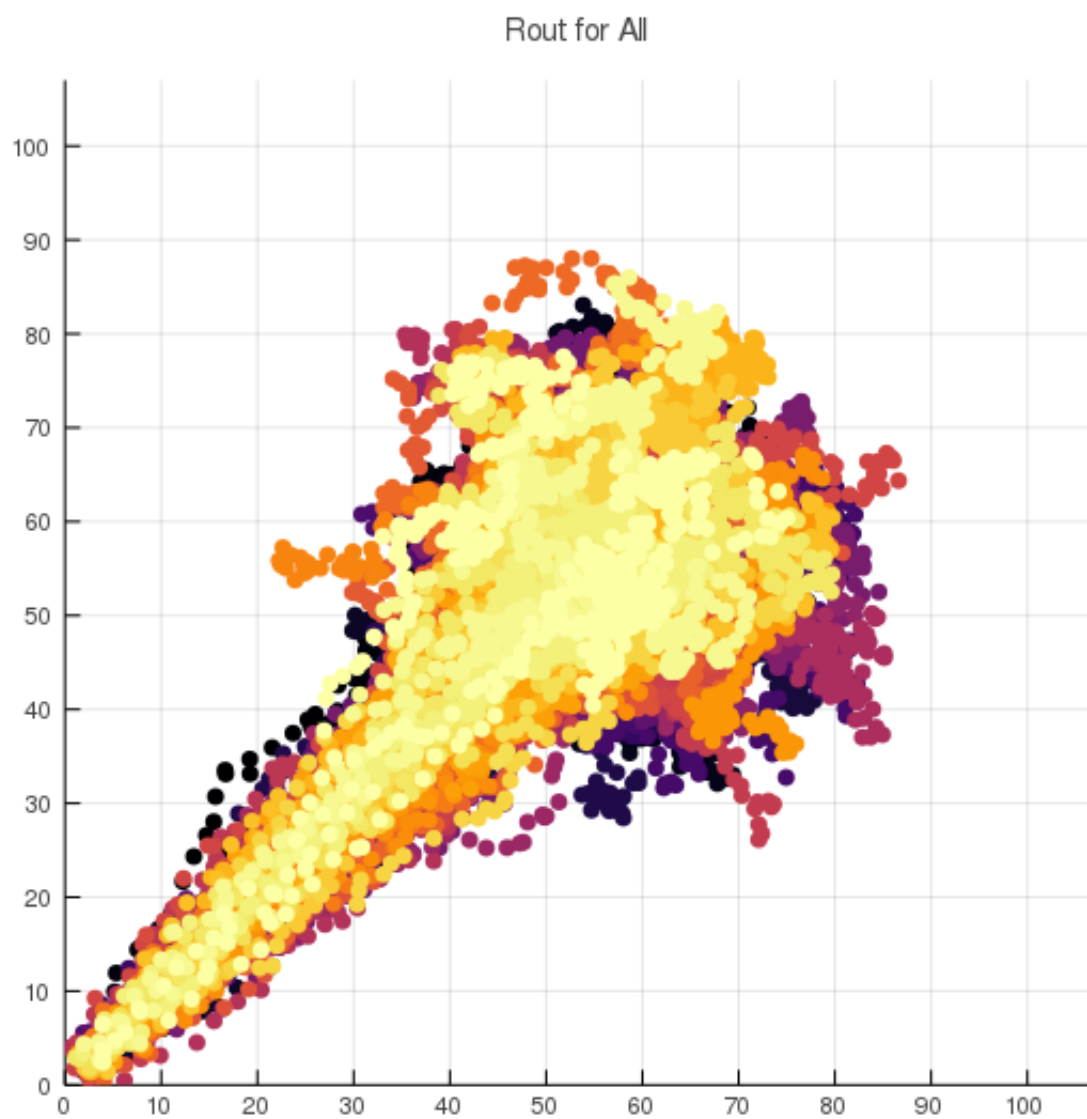
## Where is our code?

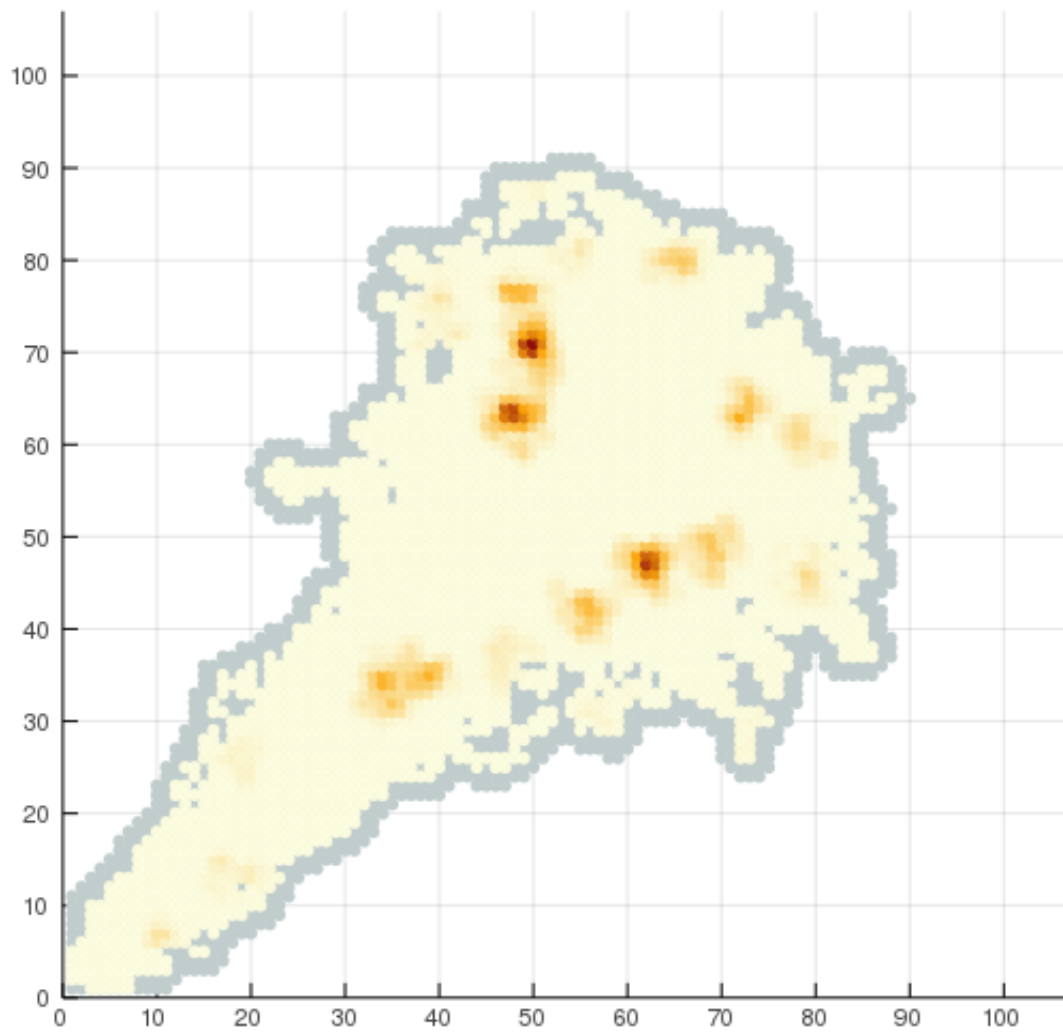
- In `src` are the helper files
- `julia pic.jl` plots the figures in `pic`
- `makeGrid.jl` construct the easy-to-read csv files `close_map2.csv` and `close_map_linear.csv`
- `em.jl` is the program to pridict the position of Jiuling accoriding to the observed data
- `poisson.jl` prideicts the unobserved Jiulings

## The `main.jl` code

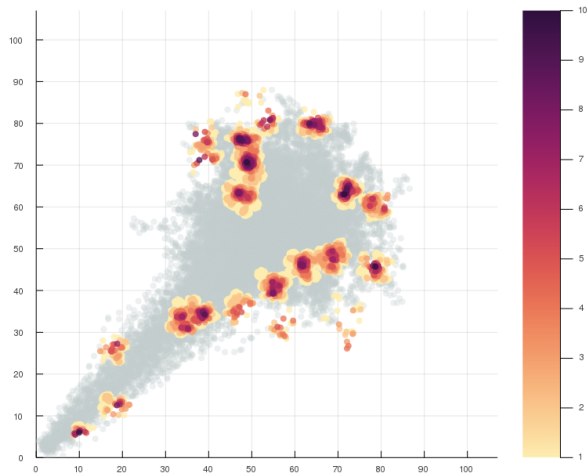
```
1 include("../julia pic.jl")
2
3 include("../em.jl")
4
5 include("../makeGrid.jl")
6
7 include("poisson.jl")
```

## Image Examples





# Tays close by (All)



# Tays no far way (All)

