# glyph map for visualizing spatio-temporal data Tests

### phinney

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#### About Me

- Name: Yinxiang Huang
- Email: Hxy903269428@gmail.com
- programming Languages: Python, C++, C, R, C#, Rust, Javascript, Shell, Lua, etc.
- Tools: Git, AWS, Google Cloud, Google Colab, Jupyter Notebook, etc.
- Profile: I am new to the open source community and have created pull requests to fix bugs in other open source repositories before. Helping others excites me. Additionally, I've built some small projects for practice out of personal interest. Currently my area of expertise uses R a lot, so I am interested in maintaining R packages. I hope that my mentors will provide me with an opportunity to contribute to the community.

#### Test Results

#### Easy Test

- download the cubble package and run the glyph map examples (?geom\_glyph).
- See Figure 1.

#### Medium Test

• read the Geoms section in the ggplot2 package reference and other geoms available in the ggplot2 extensions. Create a example that is applicable to be used as a glyph on a map.

I run the following code to create a glyph map for visualizing spatio-temporal data as examples:

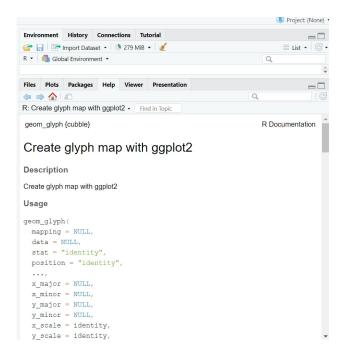
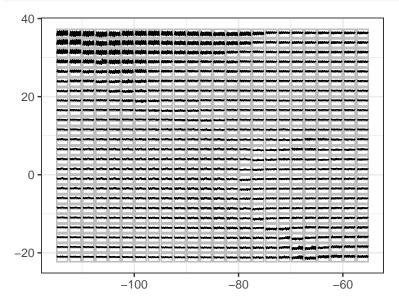
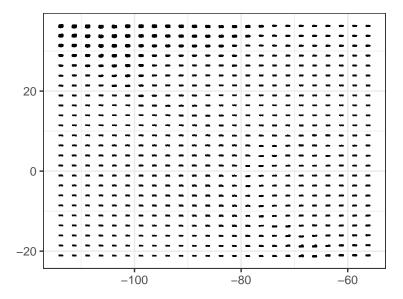


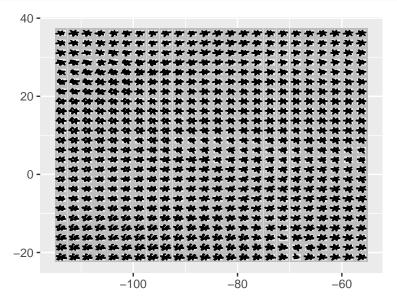
Figure 1: glyph map examples

```
theme_bw()
# print_p(p)
# NOTE: print_p cannot show the plot in the Rmd file, so I use print instead.
print(p)
```



#### print(p)





## Hard Test

• make a small change to geom\_glyph in the cubble package and create a pull request.

I created a PR which deleted invalid parameters in the geom\_glyph function. The PR is here.