

User Guide

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Set up

First we will offer 9 screenshots(ss) of a particular location to the user. The user will have to specify how many screenshot he wants among them to specify the landmarks, global co ordinates of which he wish to know.

Making the screenshots connected by landmarks

We have already created a file containing names and local co-ordinates of certain landmarks in those screenshots. The purpose of this is to make the map connected. All landmarks are chosen in such a way that they make the map connected. The user will get an option at the very beginning if he wants to use this existing data or not. He is advised to use it. If he does not want to use it then it is his responsibility to choose landmarks in the screenshot in such a way so that they are all connected.

Choosing landmarks from Screenshots

Now the user gets an option to choose the screenshots he wants to have a look at. Each screenshot will be displayed. He may have a look and if he does not want to mark any location he can hit **esc** button and proceed on or else he can left click on the landmark he wants to see co ordinates of. A box will appear where he will have to store the name of the landmark. Next he is advised to click on the location multiple times so that we get better estimate of the location before moving on the next landmark of the same screenshot or next screenshot. Finally once he is done marking all the landmarks from the user, he will have to choose the guide map data file provided. Depending on his preference at the very beginning he will get estimates of global co-ordinates with or without the help of provided data file.

Finally if the user does not use the guide map and marks the locations which do not make the ss connected he will get an error message and will be advised to use the guide map.

Roads connecting different landmarks

Now user will get an option whether he wants to see the roads between the places on the map.If he presses yes he can see them.

The roads in the map are

- Lane : coloured green
- Main Road:Two parallel line coloured blue
- Raimohan Banerjee Road:coloured red
- Lake View Park Road:coloured yellow

Identifying various points in the plot

To identify the different points in the plot,the user have to write the first line of the following code.

```
p=identify(fity$coef~fitx$coef)
names(fity$coef[p])
```

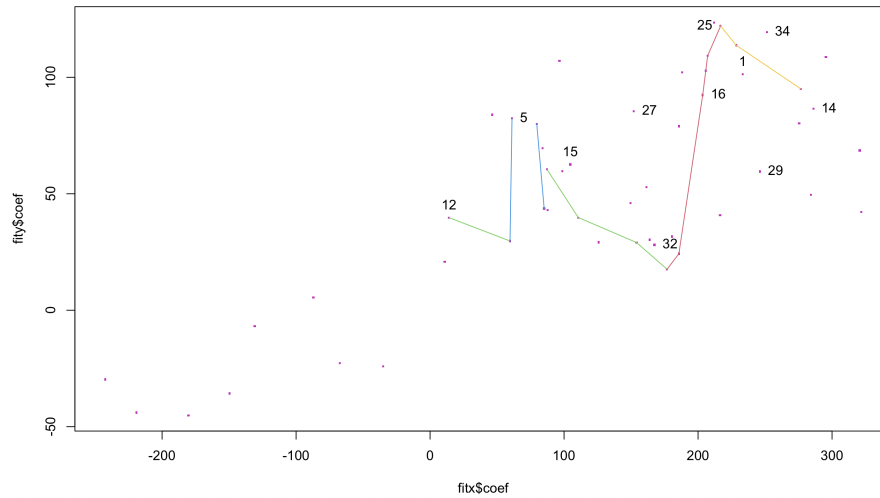
Now he can move the cursor to different points in the map and go on clicking the locations he want to know the names of.Once he has clicked all the locations he should press **esc** and then write the second line of the code to get all the names(in the order he has selected them).

Getting a list of all the global co-ordinates

To get a list of all the global co ordinates of the landmarks,the user is asked to type the following code.

```
fitx(for getting global x co ordinates of all landmarks)
fity(for getting global x co ordinates of all landmarks)
```

Now we will present a model output showing how it looks like.



We have picked some places of our interest using the above mentioned identify function. We got the names of those places as expected.

[1]	"LandmarkAnandam Cinema Hall"	"LandmarkBonhoogly Auto Stand"
[3]	"LandmarkISI Staff Quarter"	"LandmarkIndus Key Point Bon Hoogly"
[5]	"LandmarkKalika Mishtanno Bhandar"	"LandmarkKrishna Communication"
[7]	"LandmarkRikas Rassoai Ghar"	"LandmarkShanti Garage"
[9]	"LandmarkShiv Mandir"	"LandmarkTaj Haji Biriyani"
[11]	"LandmarkTapas Da's Tea Stall"	