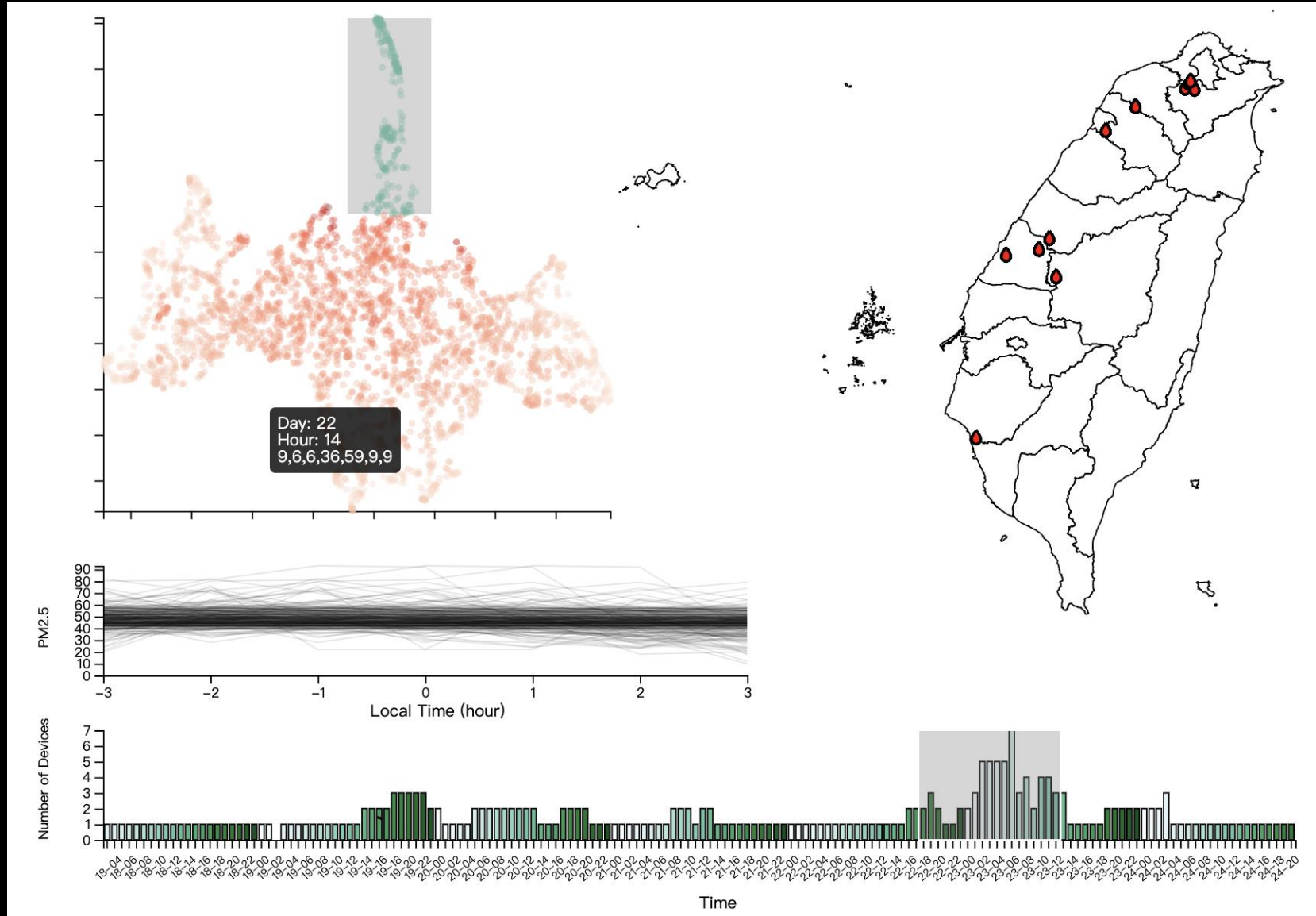


D3: Interaction

Homework3

This homework is an extension of the last D3 homework

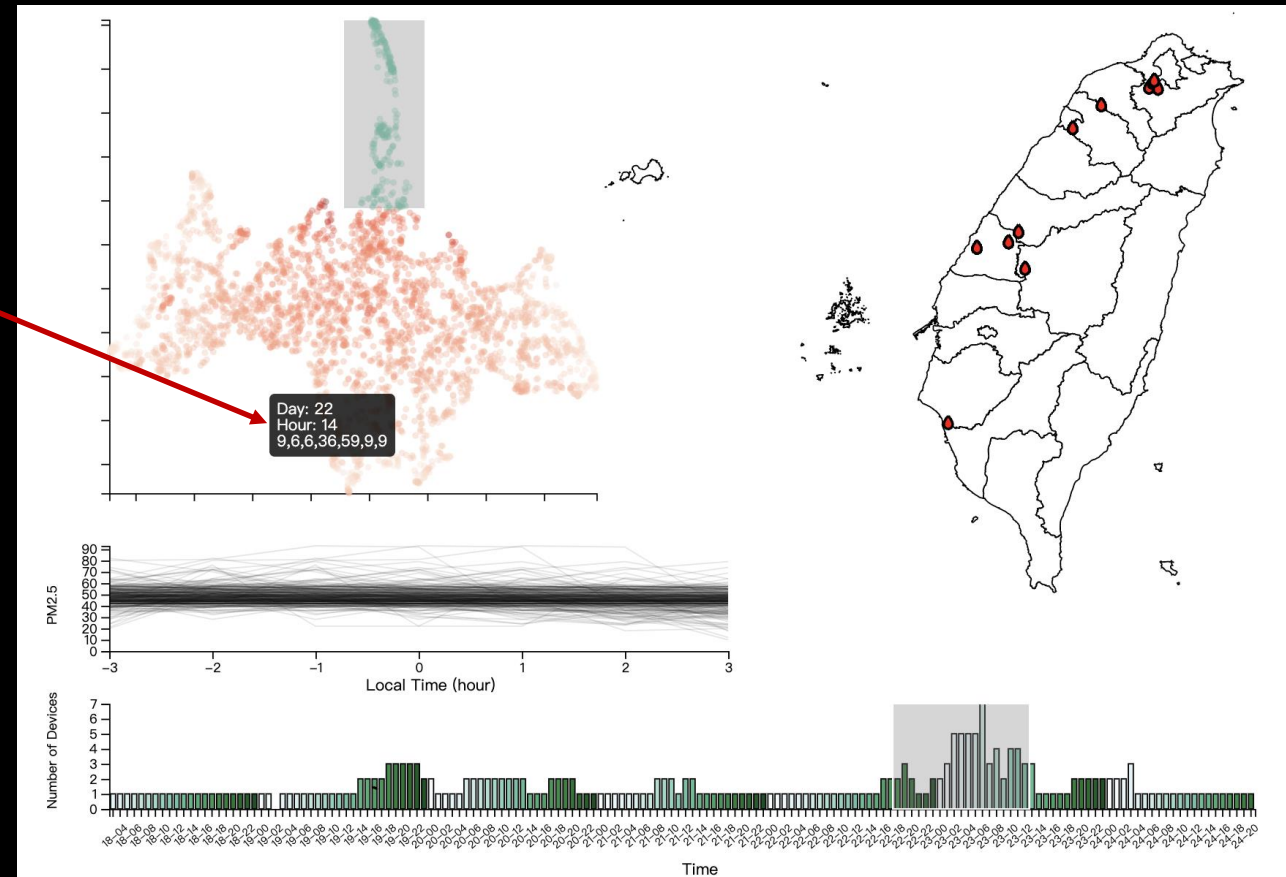


Deadline?

- What do we have to know (D3) to make this homework done?
 - 01_BeforeD3
 - 02_Selection
 - 03_DataBinding
 - 04_Scale_Axis
 - 05_BasicShape
 - 06_Map
 - 07_Transition
 - 08_Interaction
- 23:59, 5/4 (Wed.)

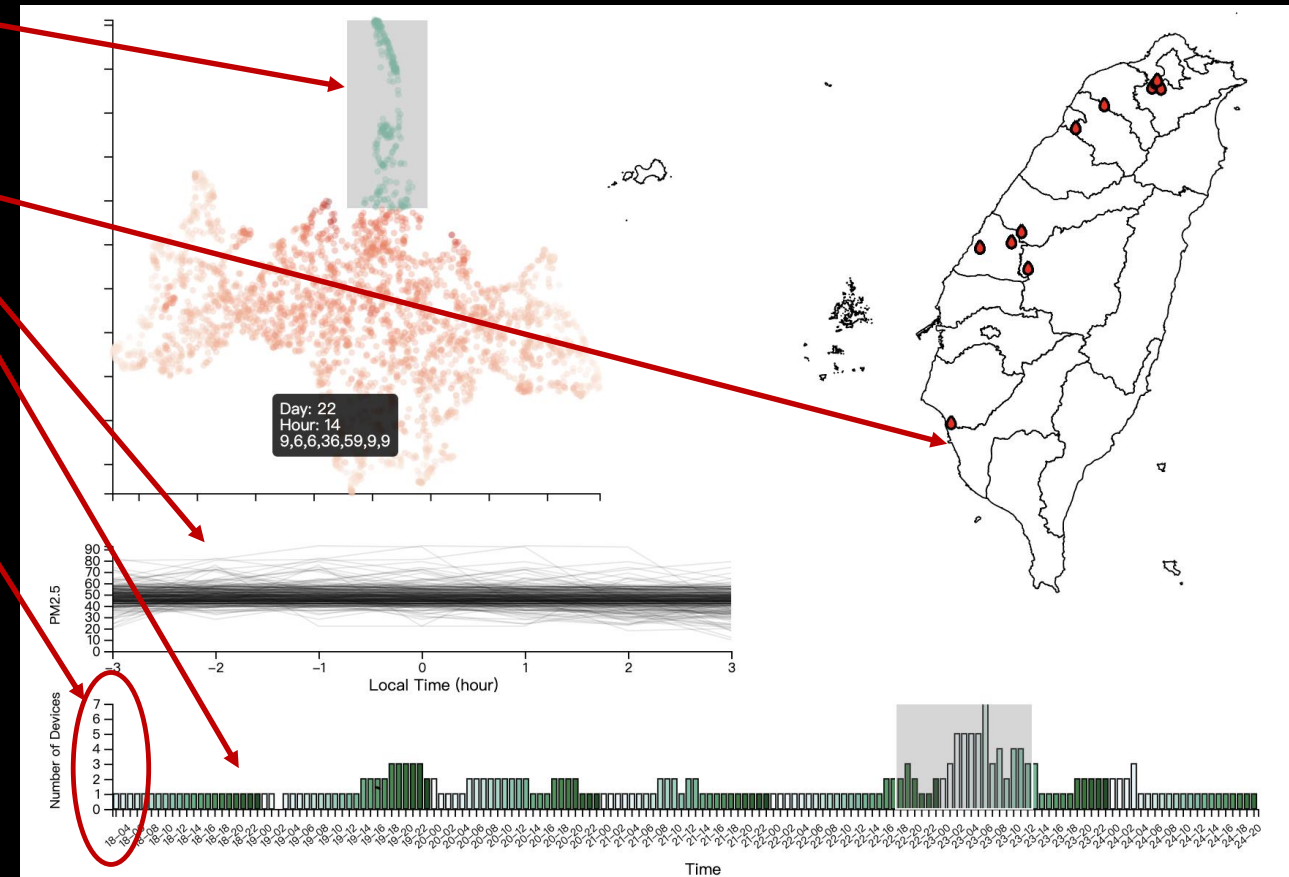
Practice1 : Tooltip

- When the mouse cursor hovers on a point in the scatter plot, show a tooltip that displays “day”, “hour”, and PM 2.5 vector of the point



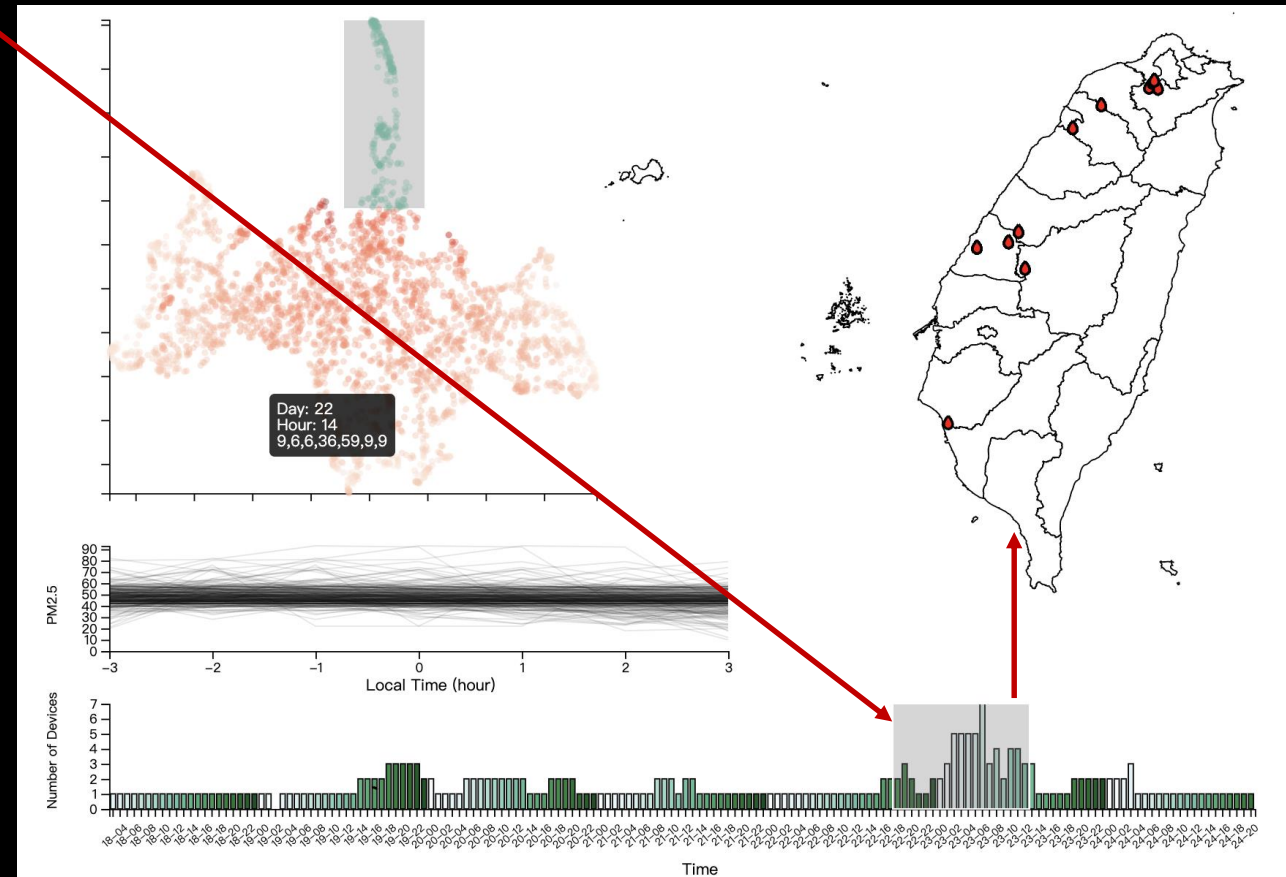
Practice2 : Brush and update other views

- Allow users to brush (select) points in the scatter plot. You should use another color to highlight the selected point
- Update the other three view according to the selected points in the scatter plot
- When updating the bar chart, the smooth transition should be implemented, and the y-axis also should be updated with a smooth transition
- If the user clicks at the empty space in the scatterplot, everything should be deselected/dehighlighted. You should use all data items to update the other 3 views.



Practice3 : Brush(X) in the barchart and update the map

- Allow users to brush along the x-axis only in the bar chart.
- Use the selected data items to update the Taiwan map
- Deselection
 - If the user clicks at the empty space in the barchart, that means the users want to deselect everything in the bar chart. You should use all items shown in the bar chart to update the Taiwan map.



Demonstration video

- <https://www.youtube.com/watch?v=7kmFmi0AWjY>

Seek for Help?

- Instructor: Ko-Chih Wang (kcwang@ntnu.edu.tw)
- Our TA Team:
 - 志融 (60947081S@gapps.ntnu.edu.tw)
 - 柏丞 (60947015S@gapps.ntnu.edu.tw)
 - 旭廷 (60947072S@gapps.ntnu.edu.tw)
 - 建霖 (60947092S@gapps.ntnu.edu.tw)
 - lab location: 應用科學大樓109