

## Additional data

This document presents the reported results for all participants (8) of our experiment on all tasks (8).

Results from Participants 10.06 and 10.02 are presented but were not taken into account due to unexpected recording issues discovered after analysis (see the Method section in the paper). Their figures are presented after the other participants.

Tasks 97, 103 and 109 (resp. b\_6, b\_9 and b\_11) were ranked as *most difficult* by participants. Other tasks were seen as easier, especially 79, 67 and 85 (resp. b\_1, a\_1 and b\_2), considered as *easiest*.

*Easiest* tasks do not expose clusters of fixations. Since we define critical PoC based on clusters of fixations with long duration, the alignment in those tasks is hard to investigate.

The 8 first figures are the aggregated results of all participants for each task.

Note: for a better readability please refer to the figures in the attached folder.

## Aggregated results

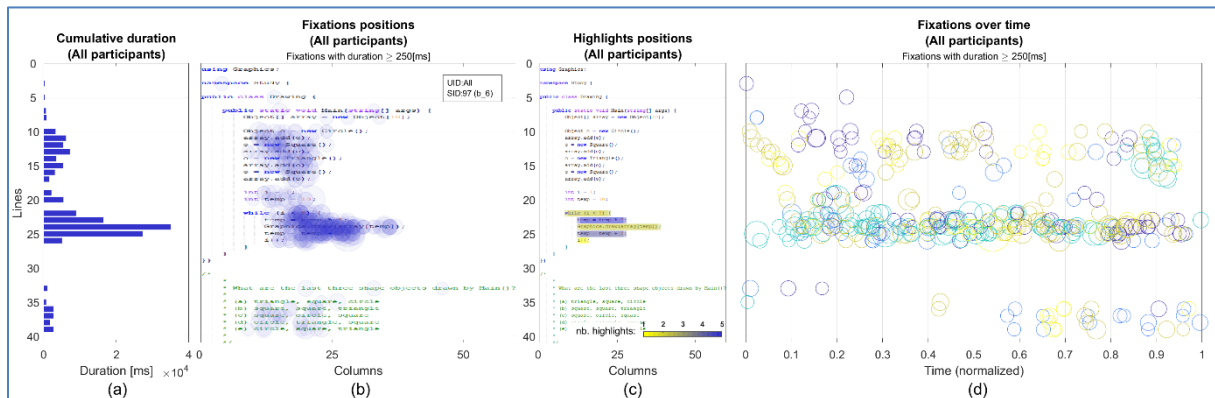


Figure 1 SID 97 - task b\_6

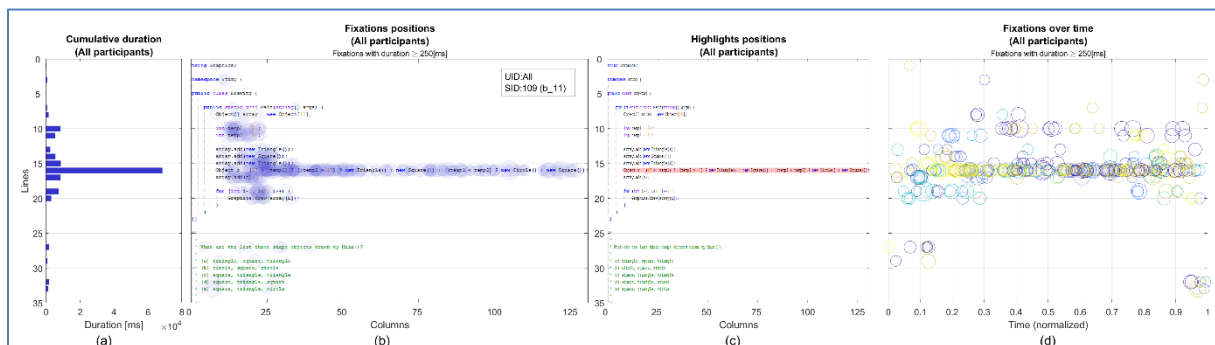


Figure 2 SID 109 - task b\_11

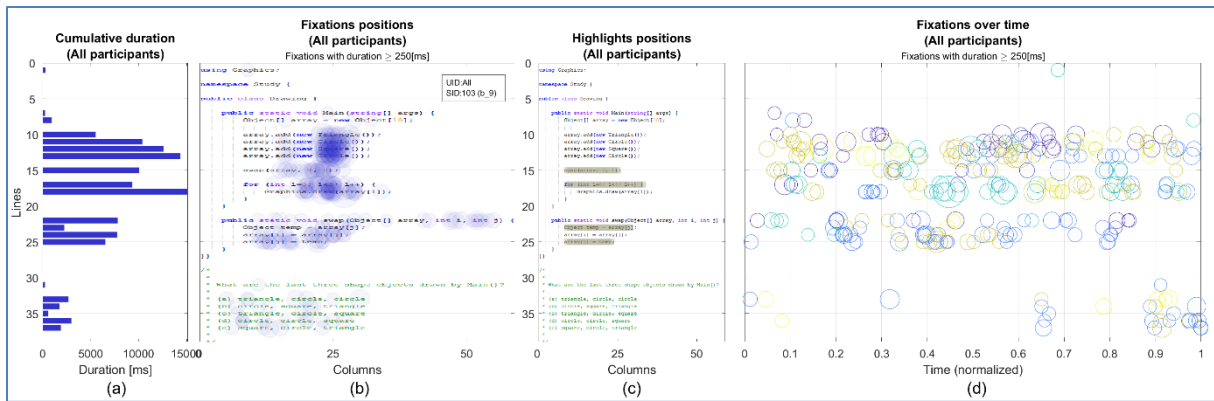


Figure 3 SID 103 - task b\_9

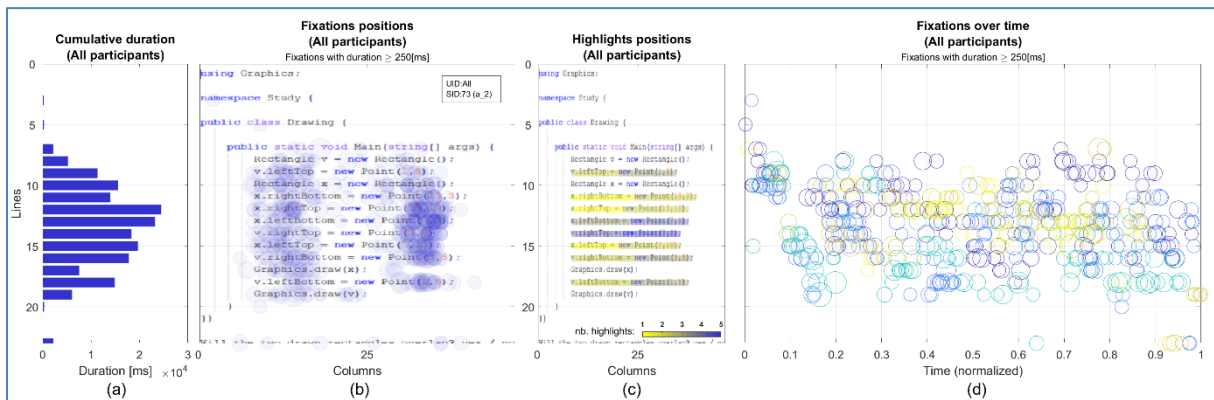


Figure 4 SID 73 - task a\_2

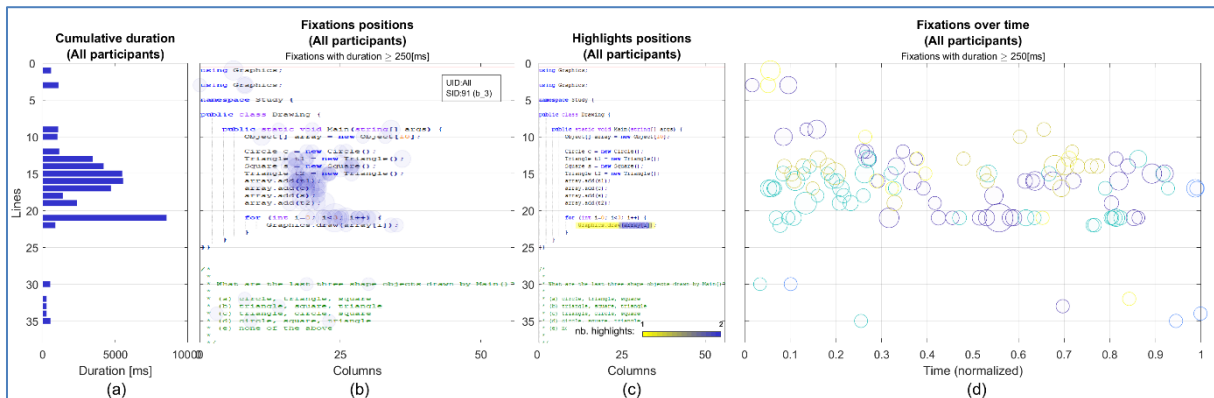


Figure 5 SID 91 - task b\_3

## Easiest tasks

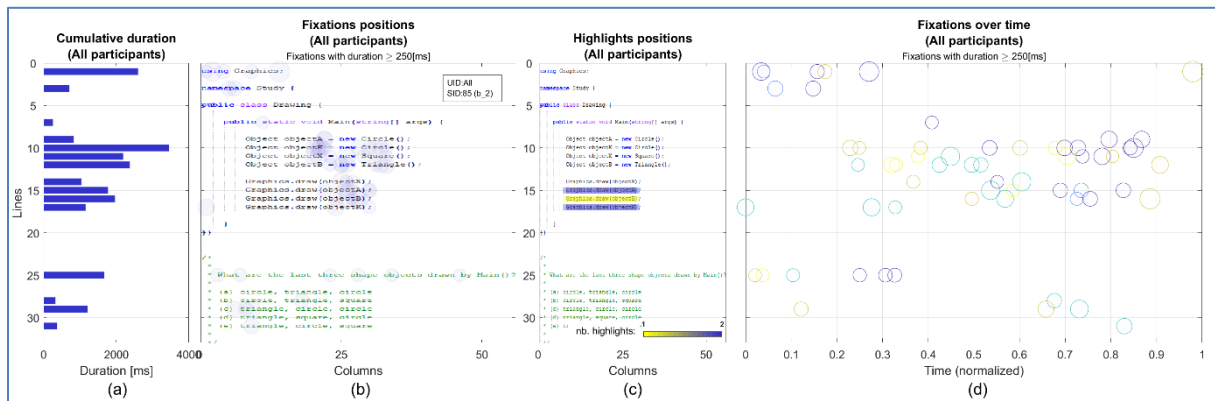


Figure 6 SID 85 - task b\_2

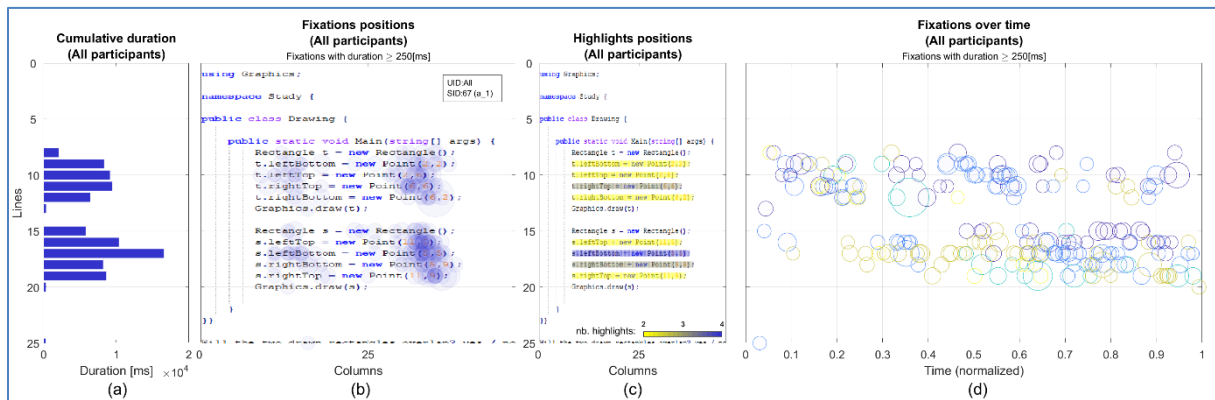


Figure 7 SID 67 - task a\_1

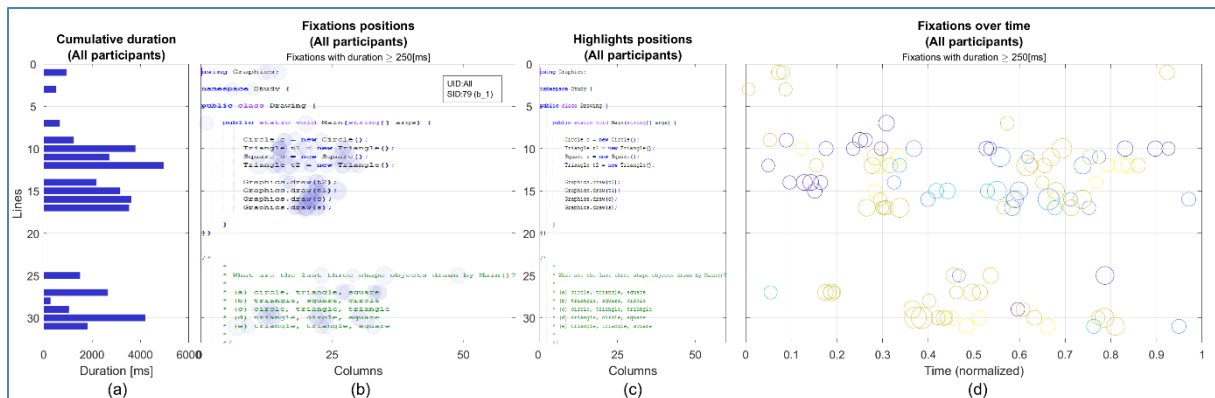


Figure 8 SID 79 - task b\_1

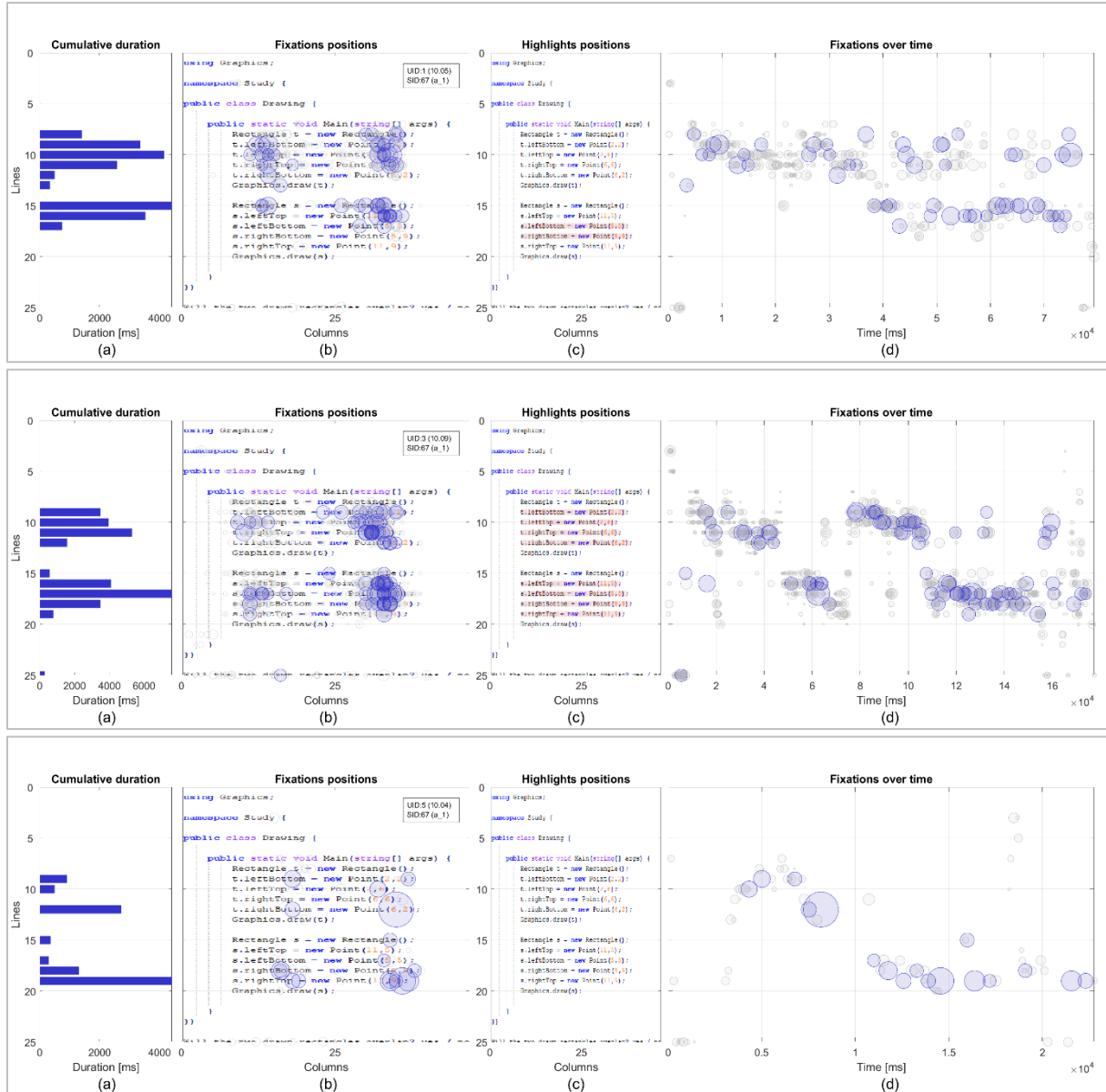
## Individual results

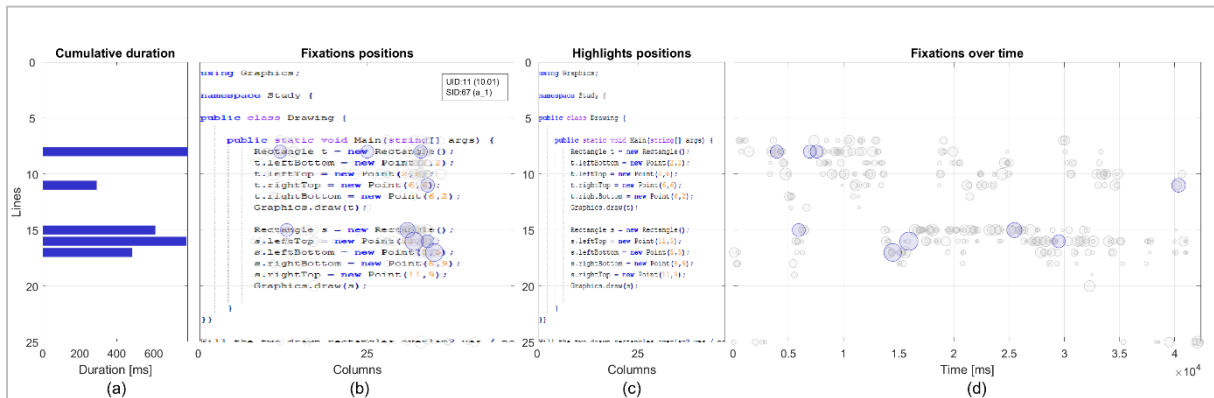
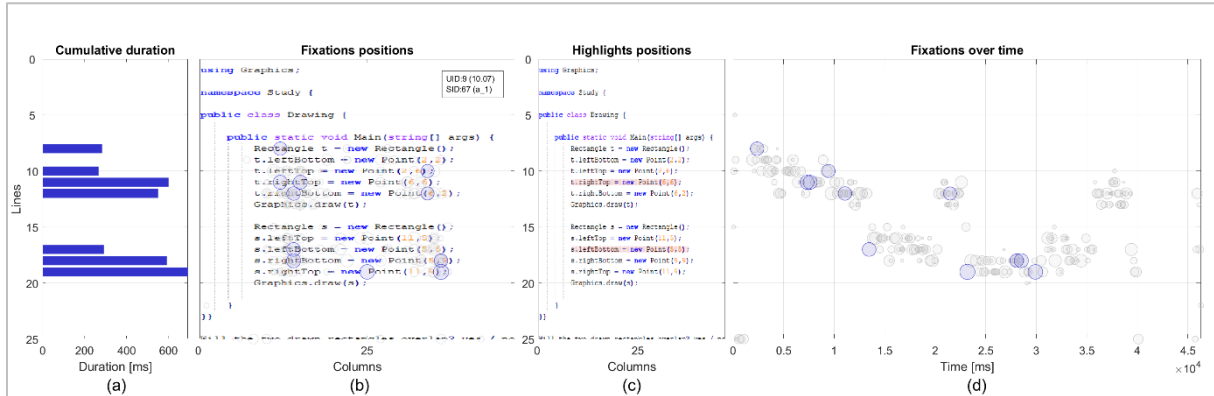
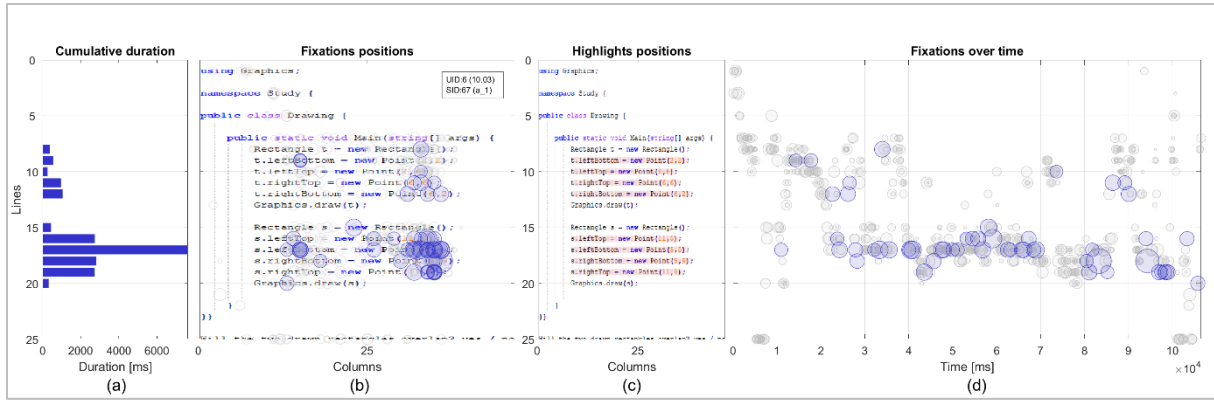
Figures are presented by task and then by order of participants' unique id (UID):

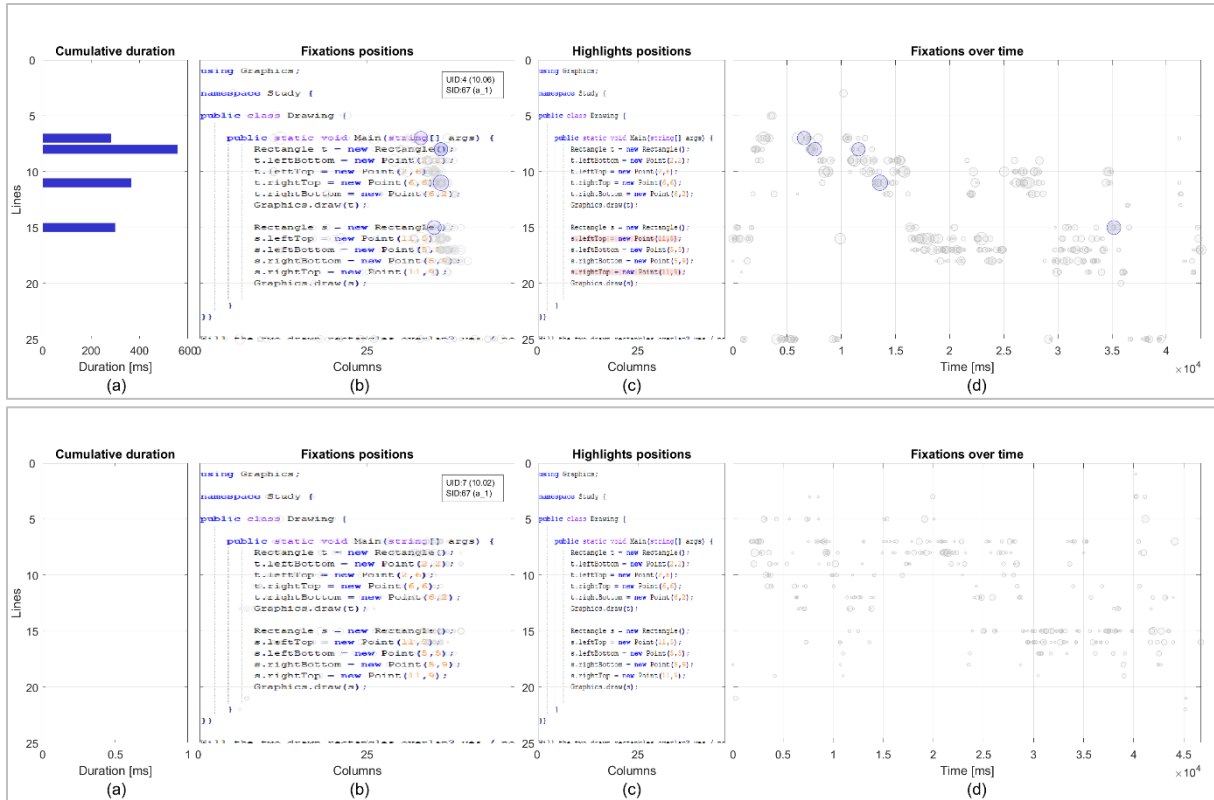
10.05 – 10.09 – 10.04 – 10.03 – 10.07 – 10.01 – 10.06 – 10.02

As mentioned, the last two participants presented recording issues.

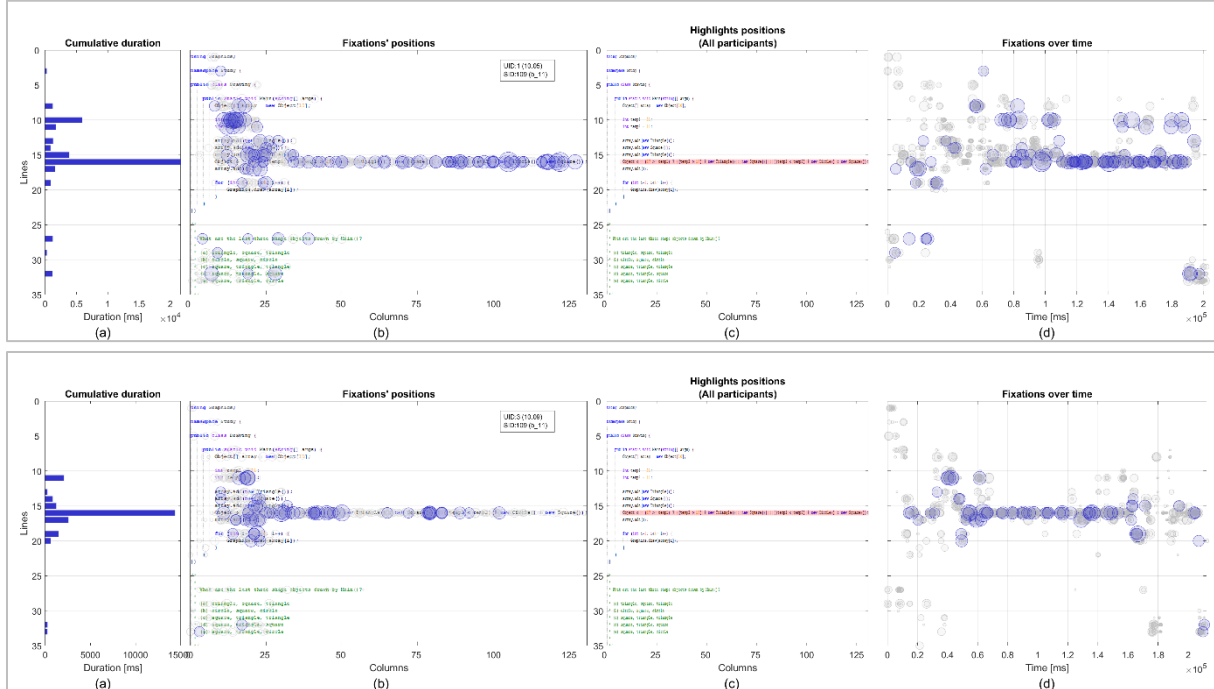
### SID 97 – task b\_6



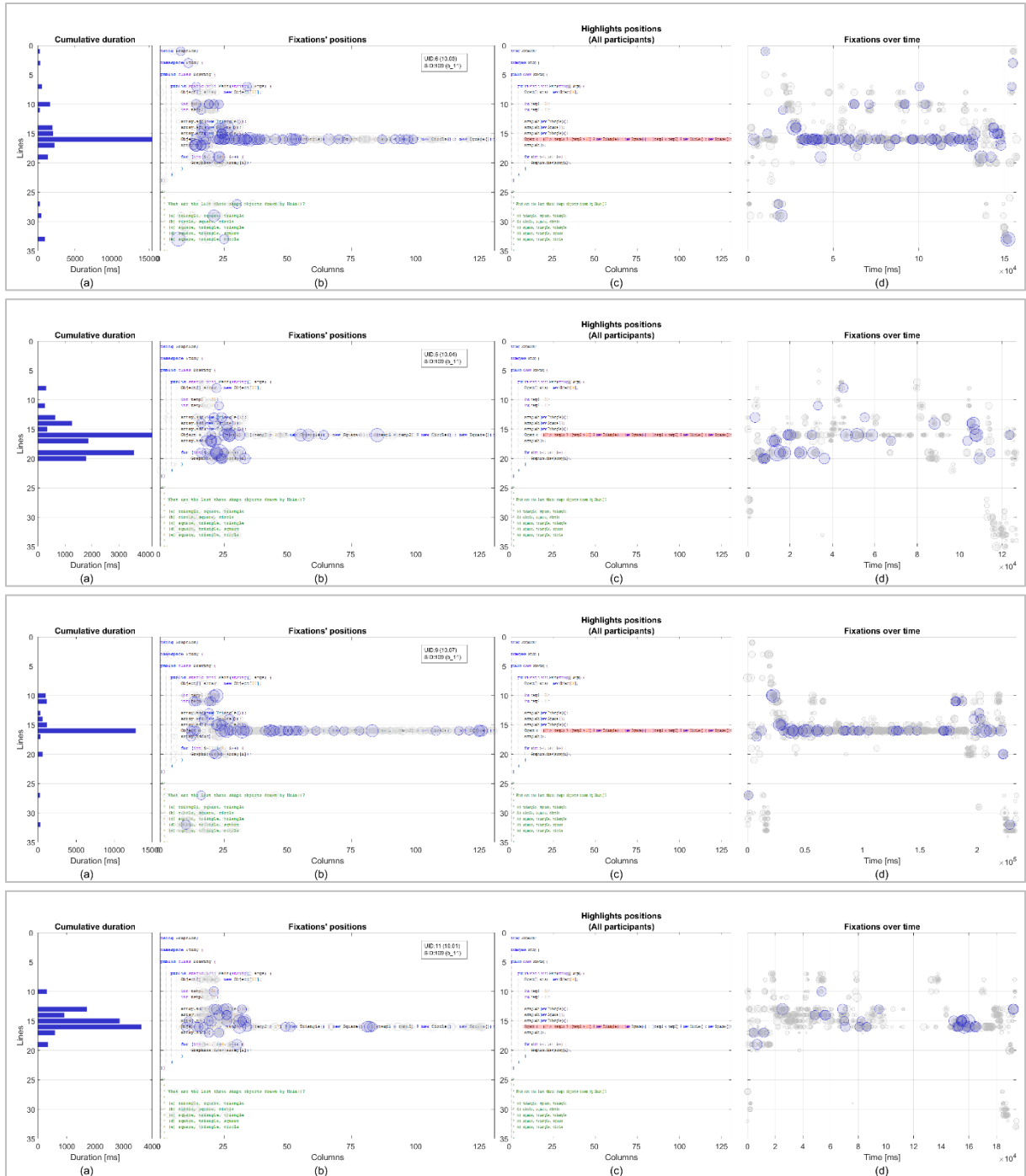




## SID 109 – task b\_11

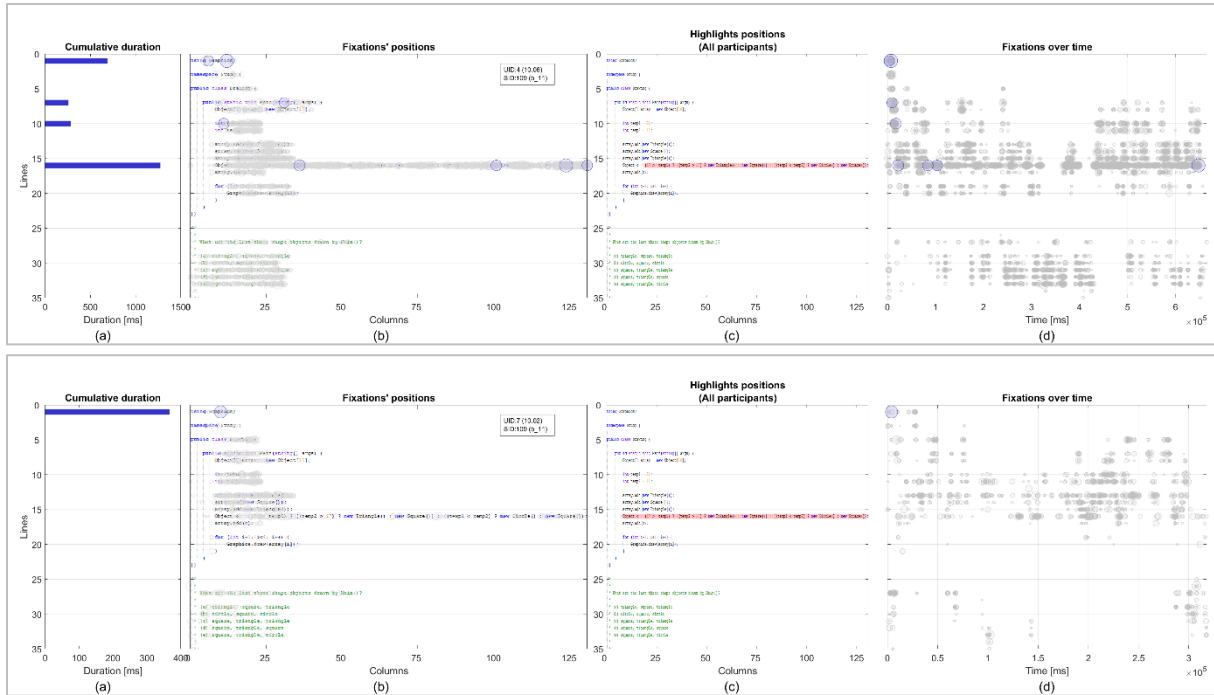


*“Towards a Fine-grained Analysis of Cognitive Load During Program Comprehension”,  
Thierry Sorg, Amine Abbad-Andaloussi, Barbara Weber.*

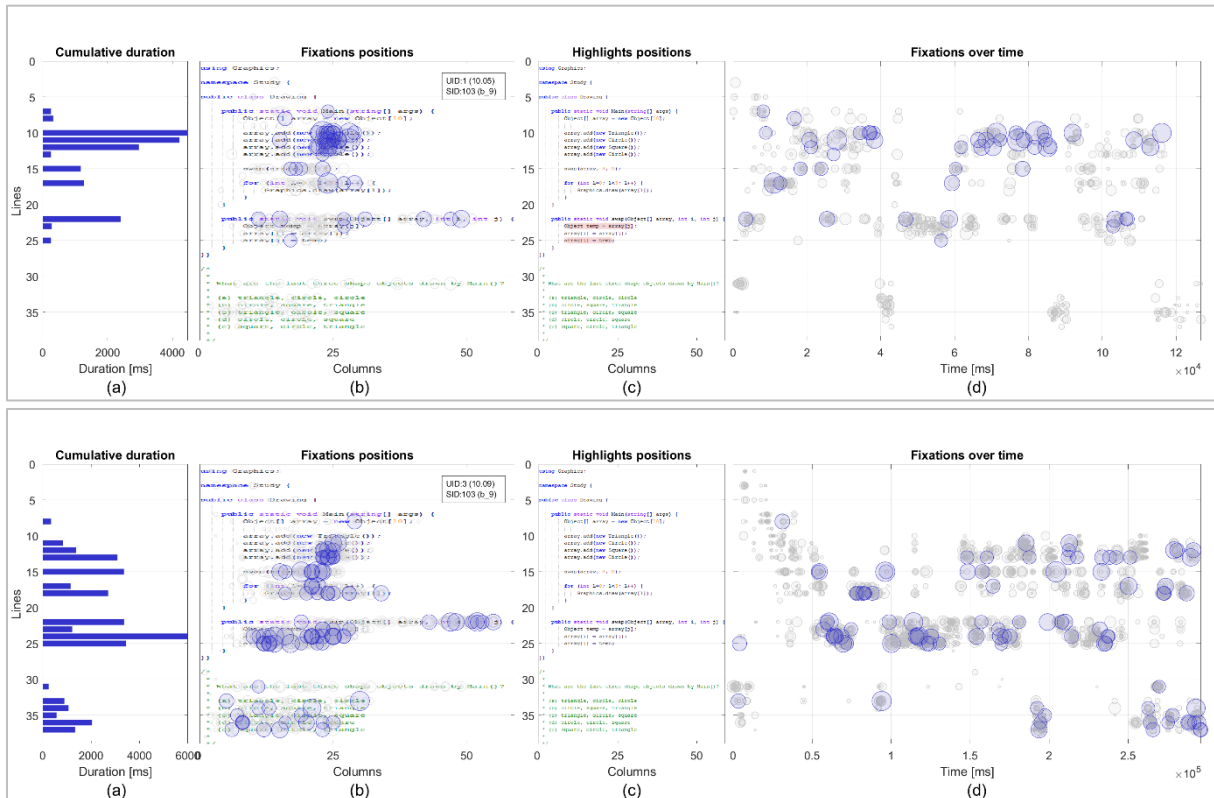




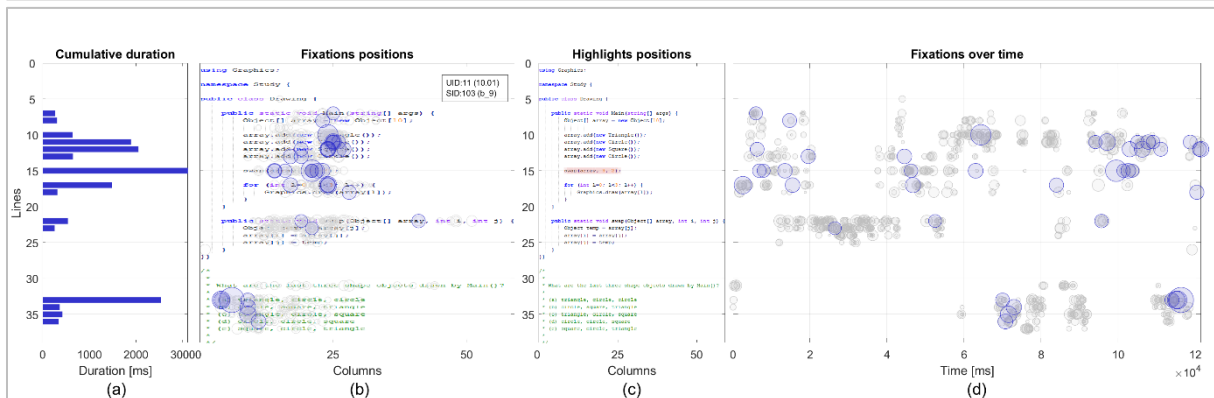
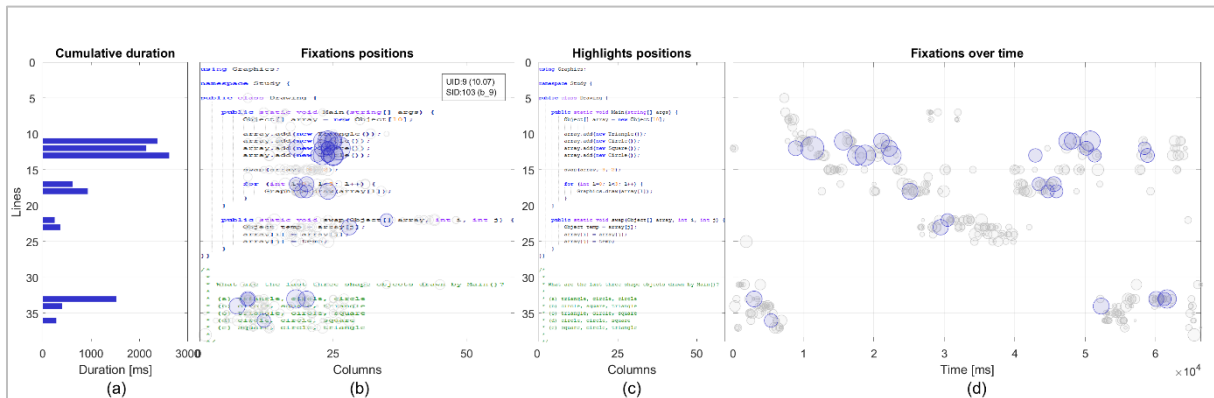
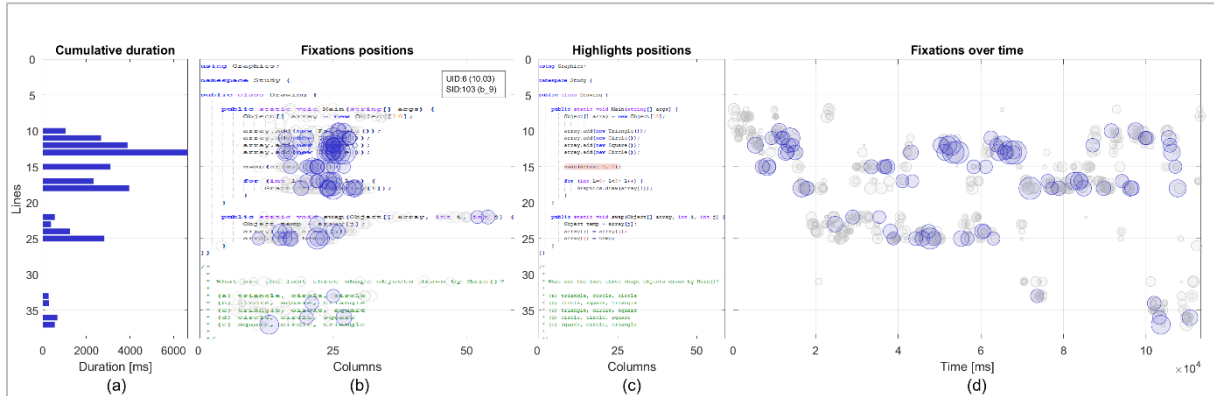
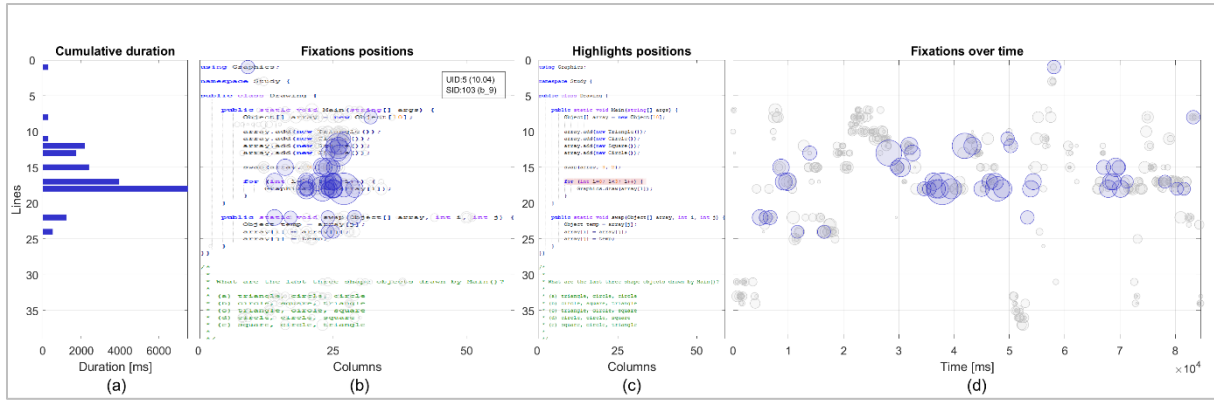
*“Towards a Fine-grained Analysis of Cognitive Load During Program Comprehension”,  
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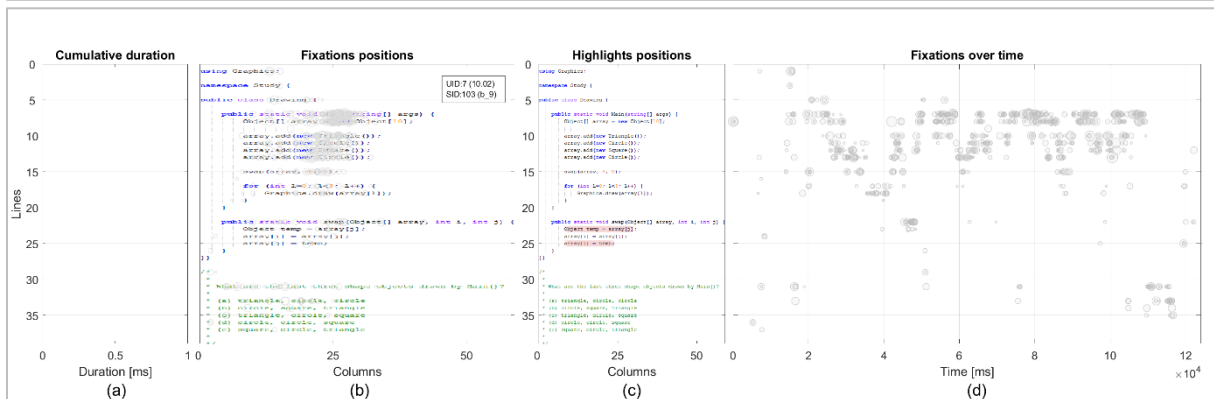
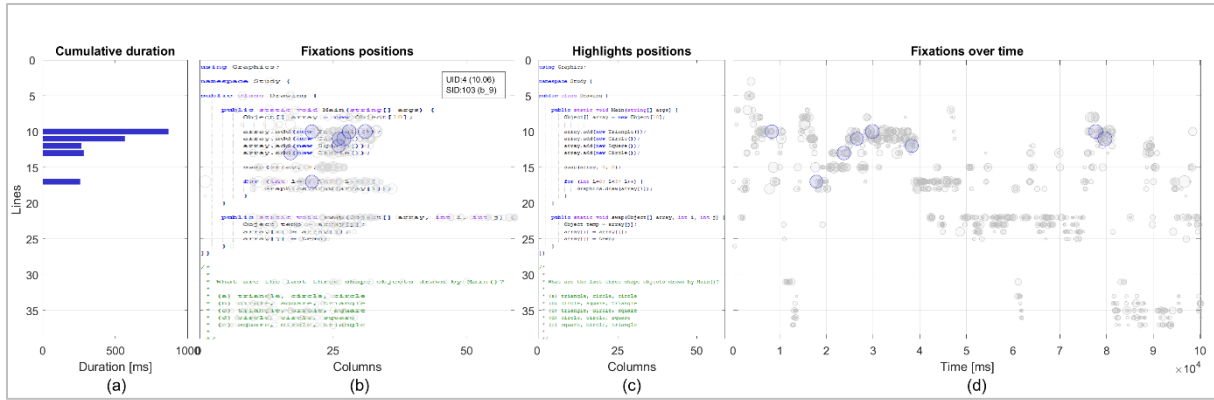


**SID 103 – task b\_9**

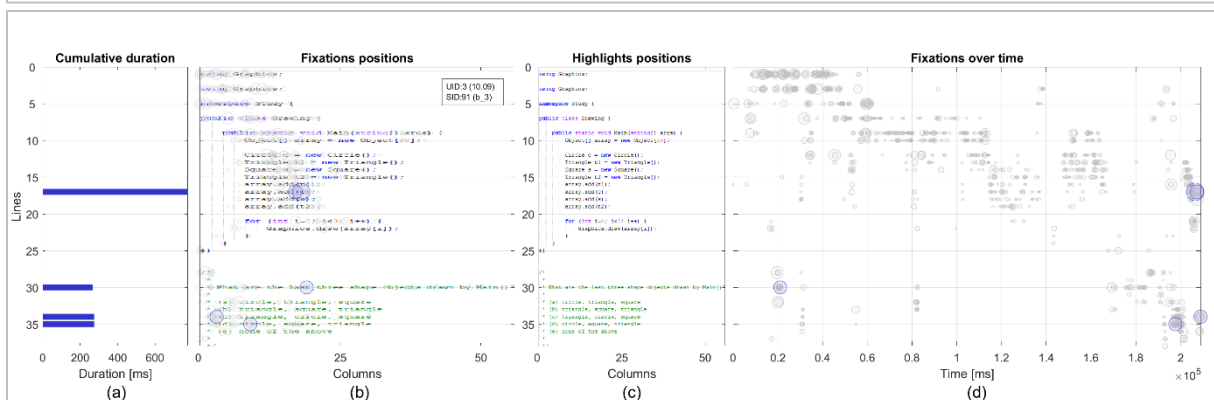
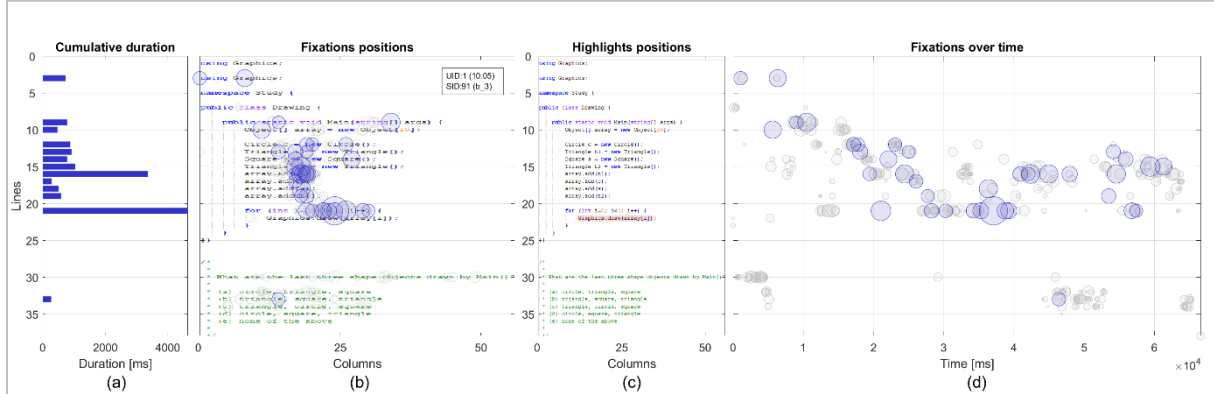


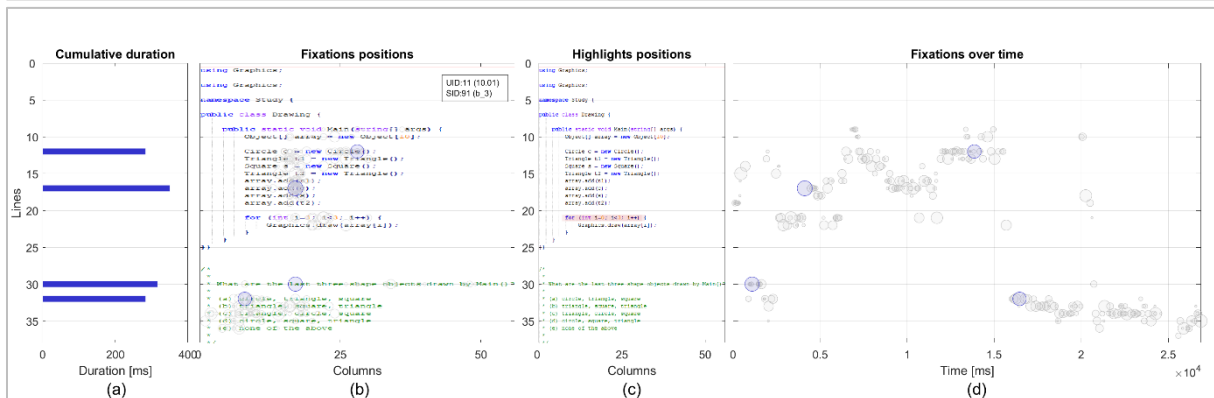
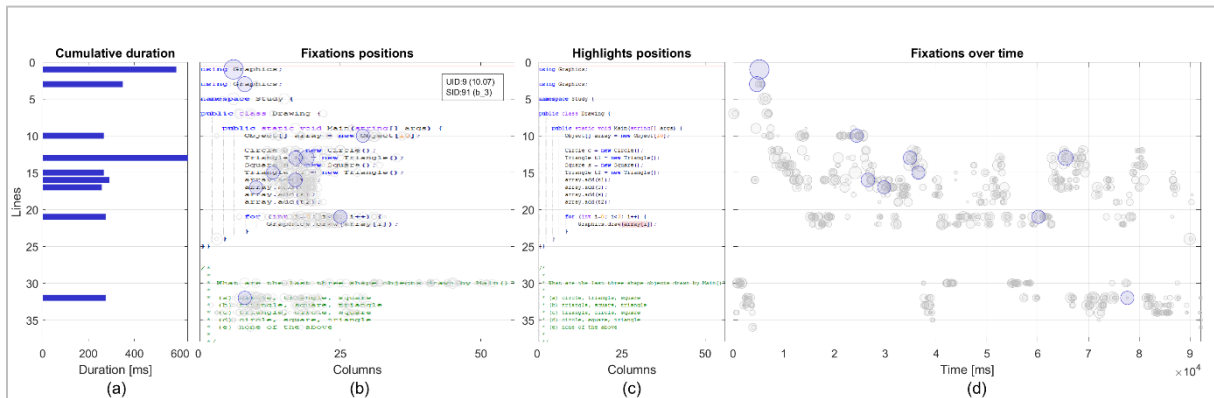
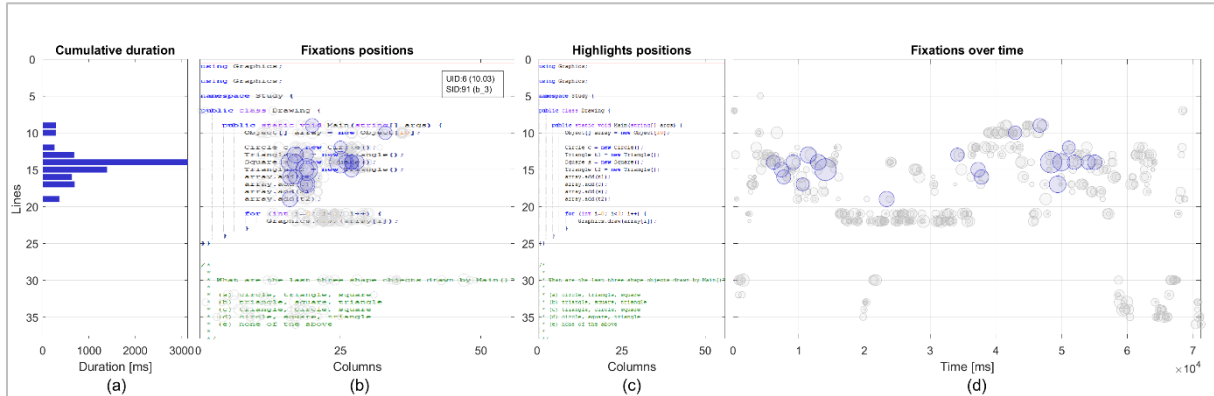
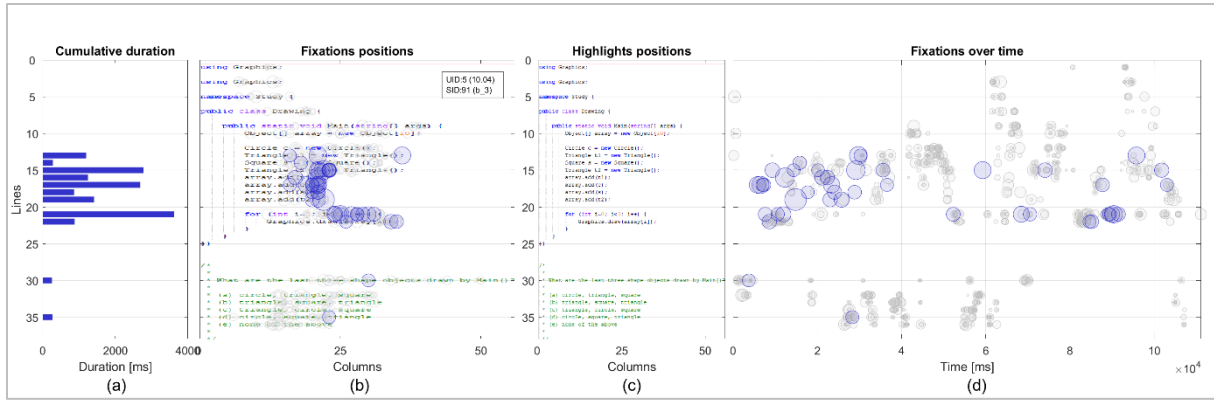


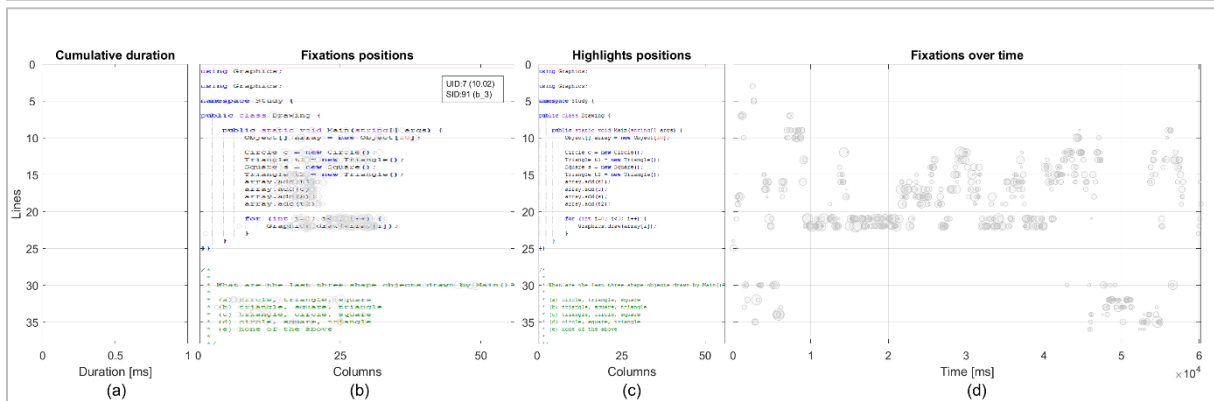
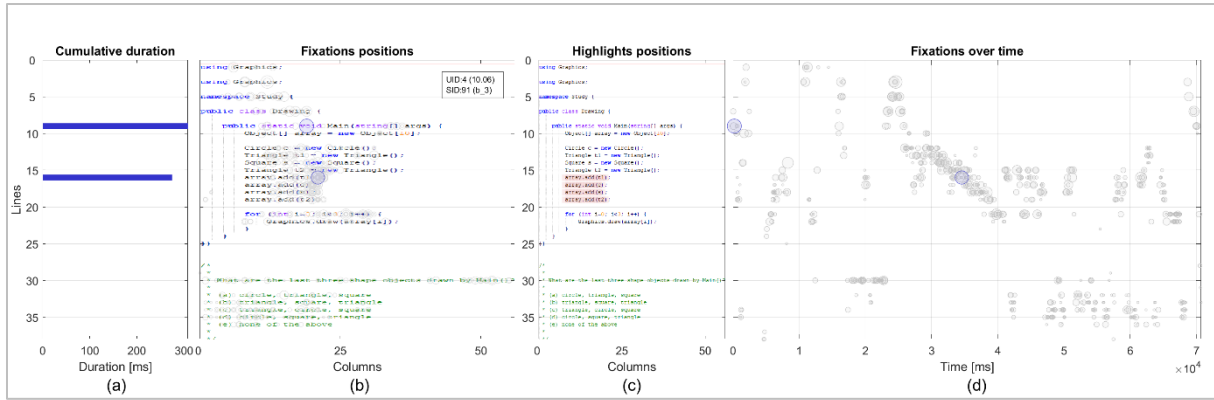




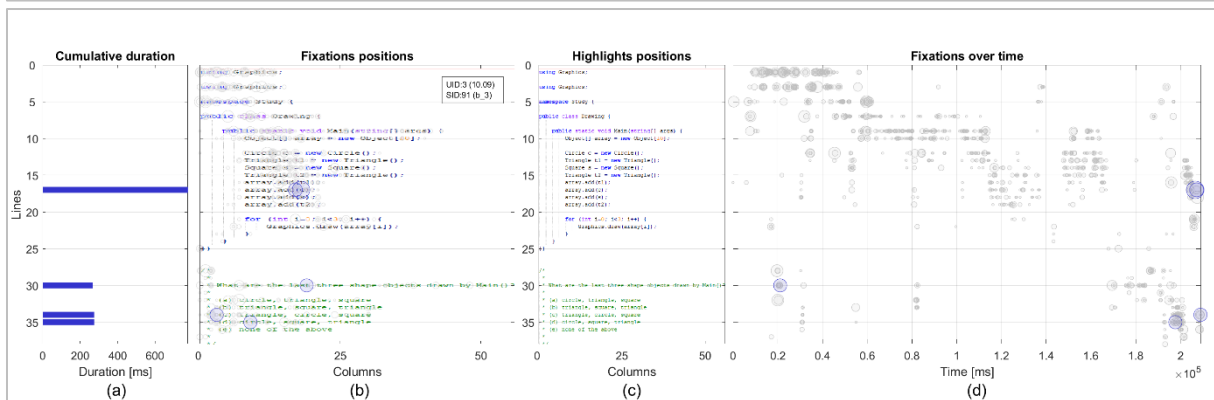
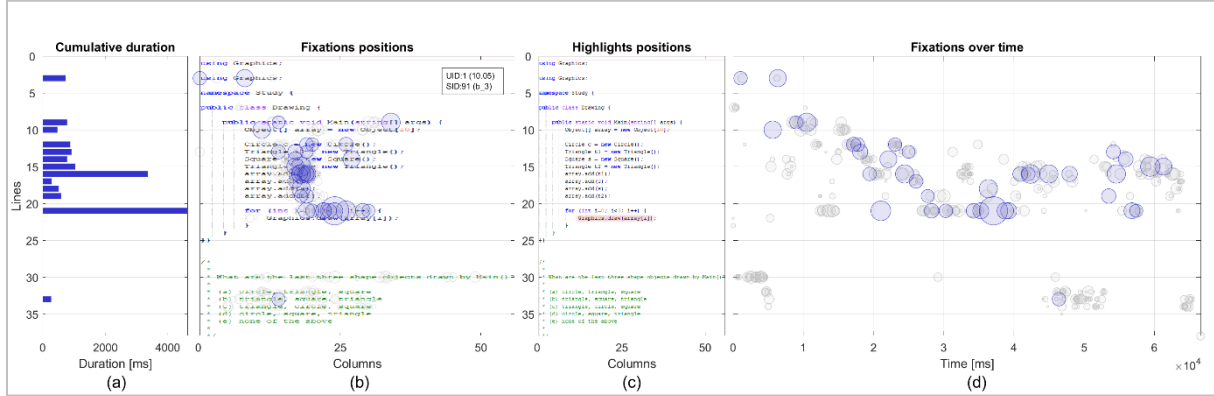
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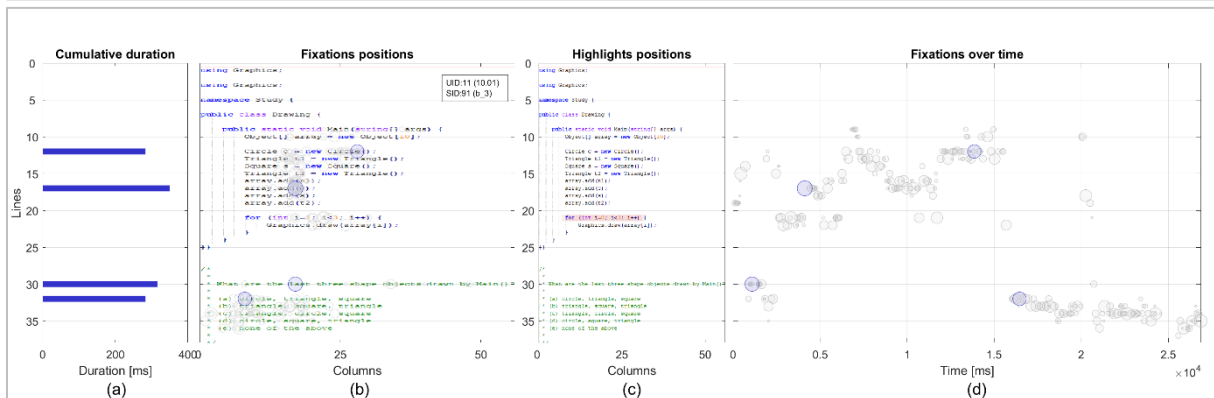
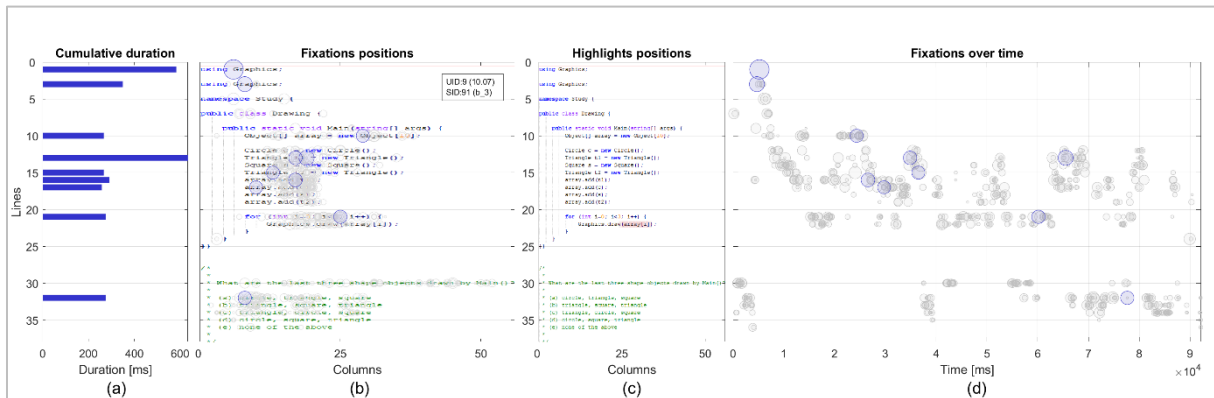
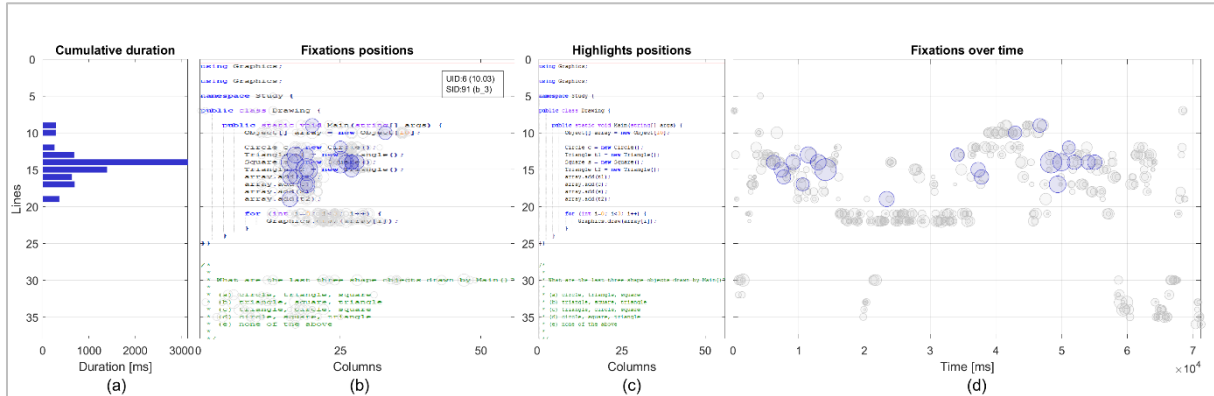
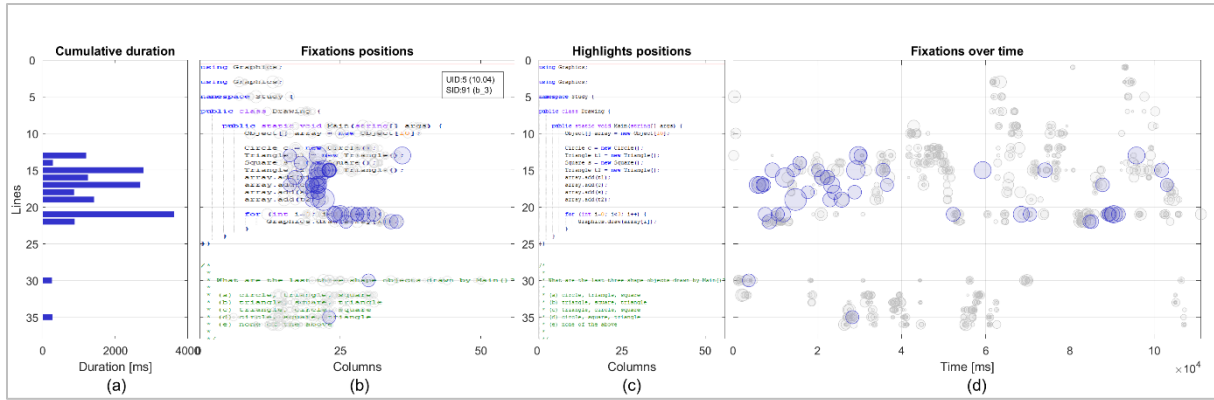


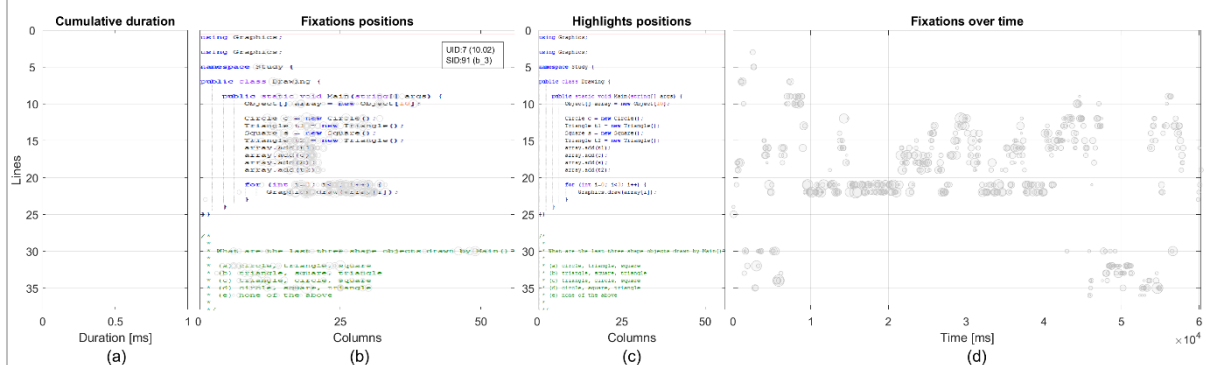
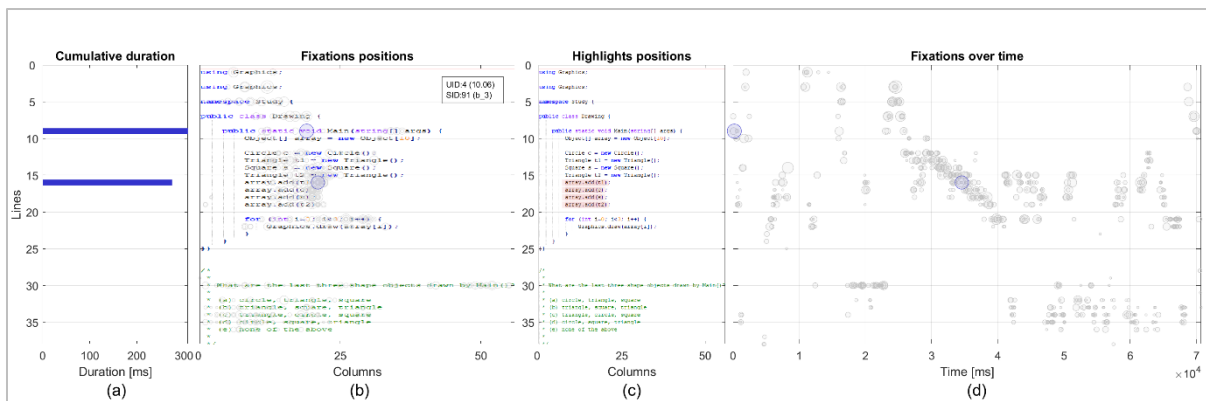




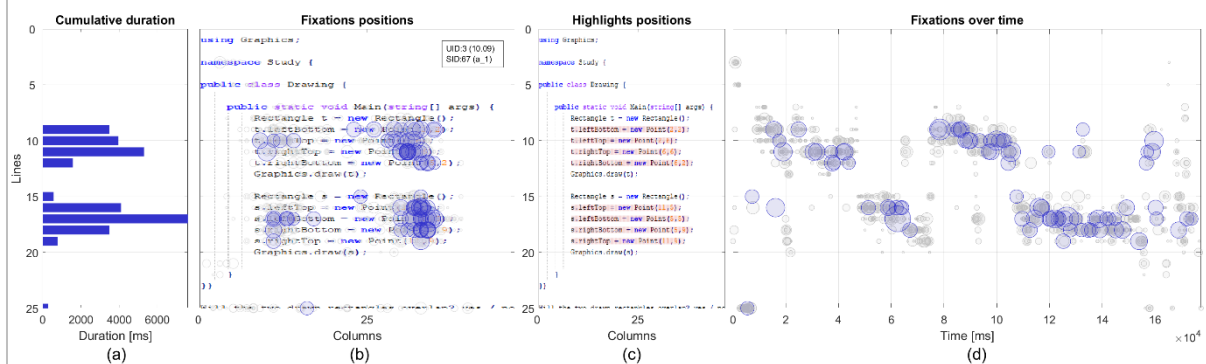
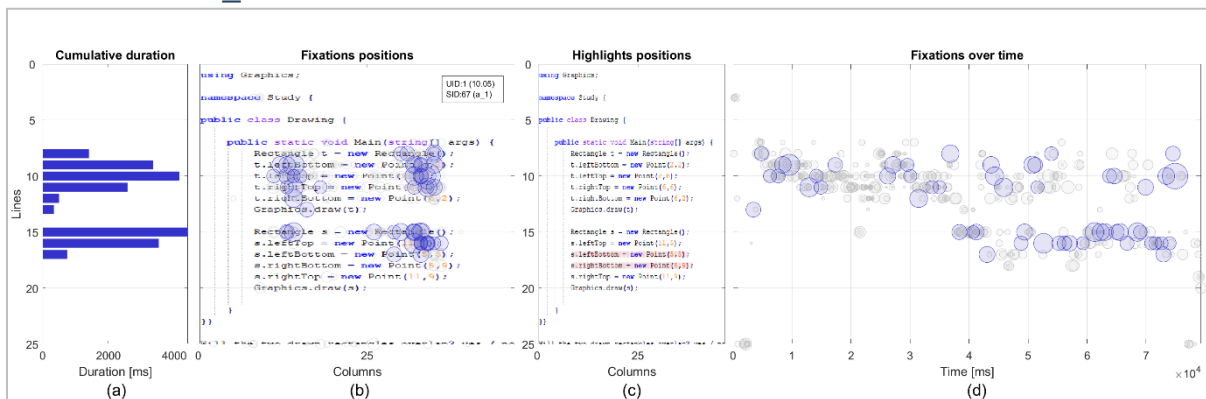
## SID 85 – task b\_2



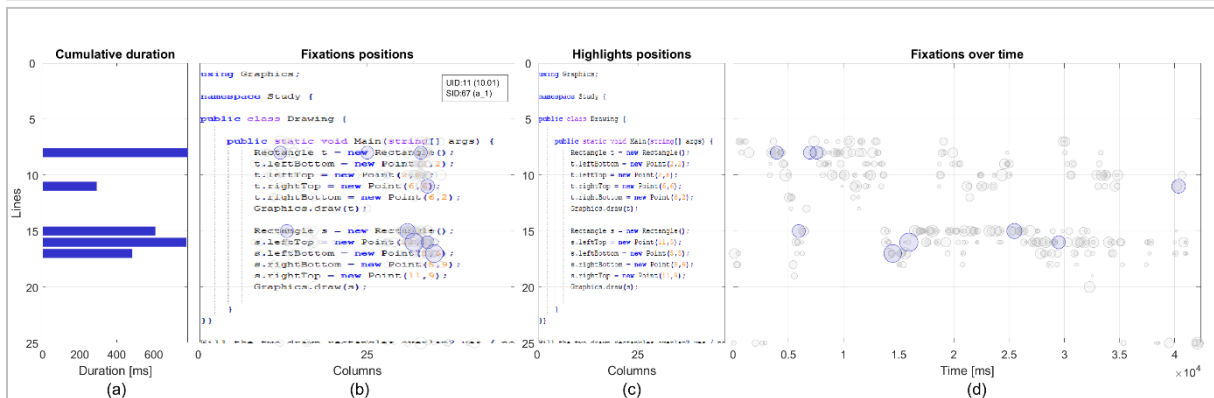
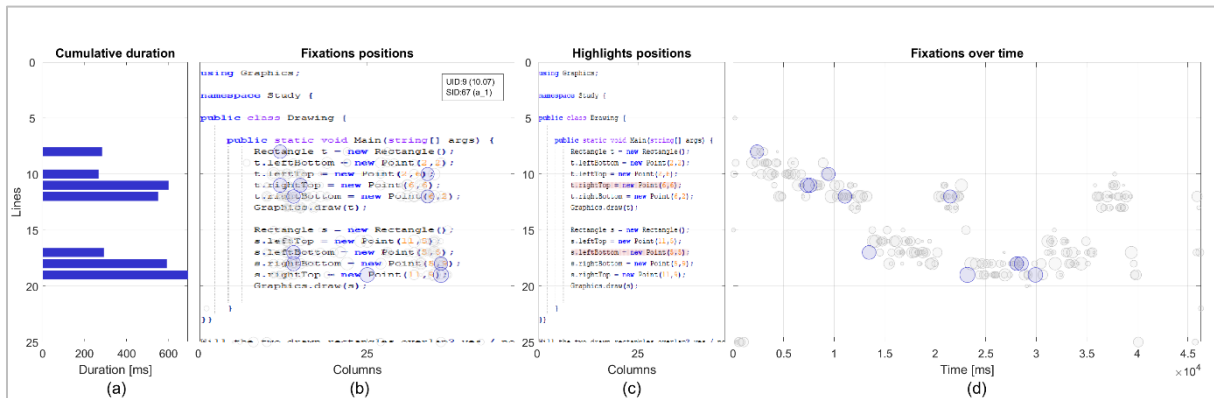
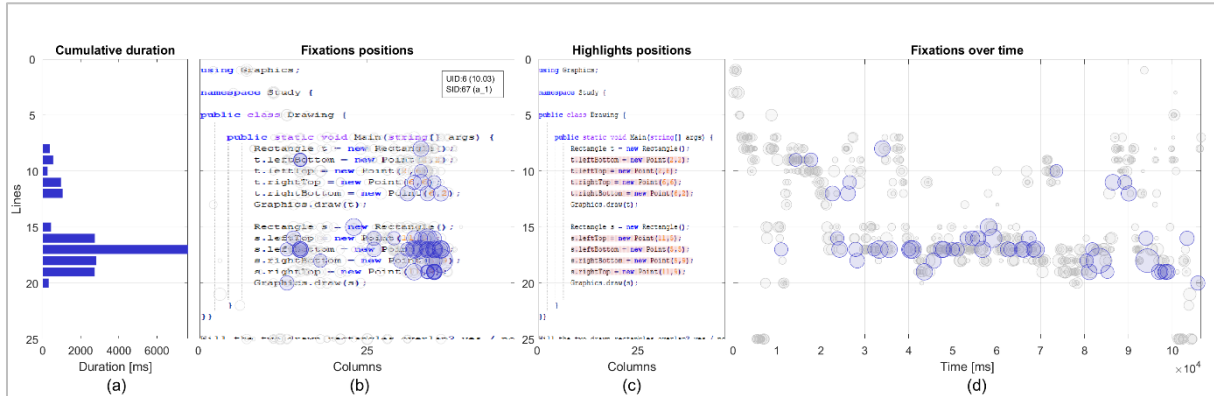
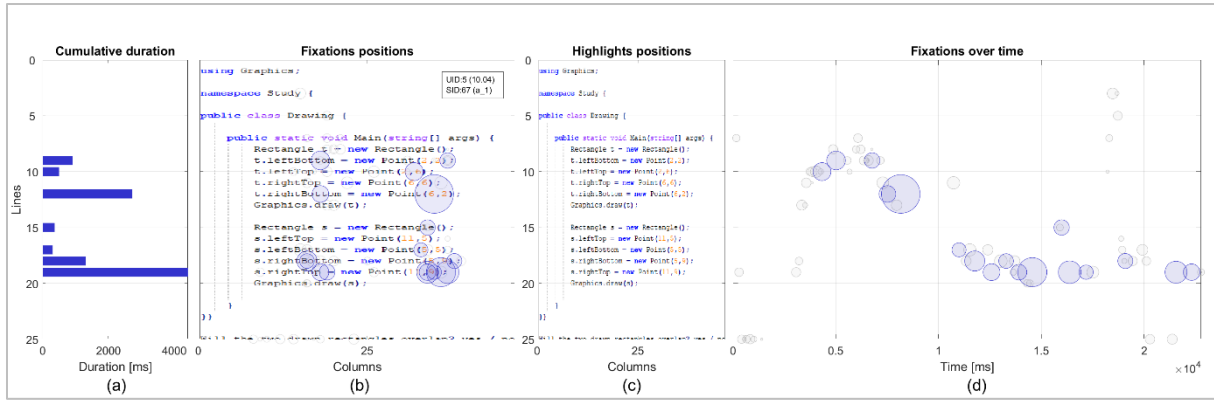


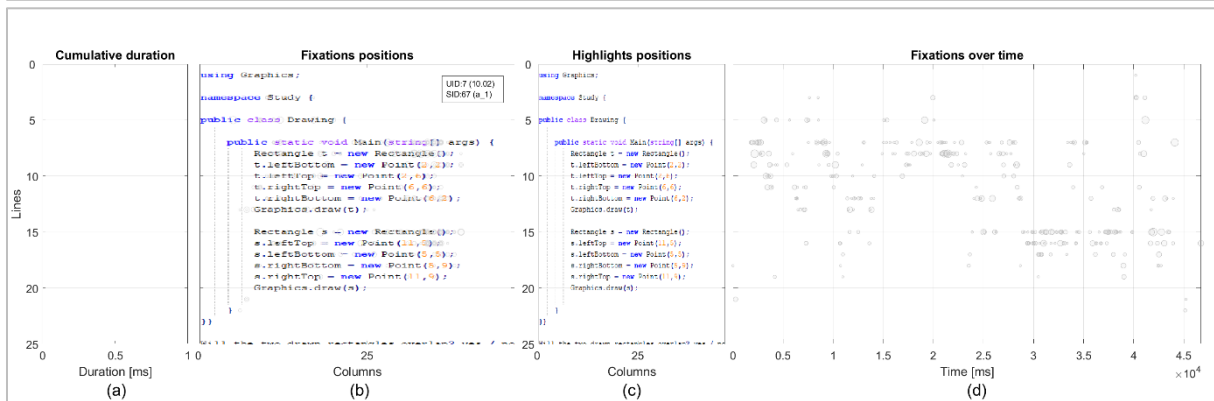
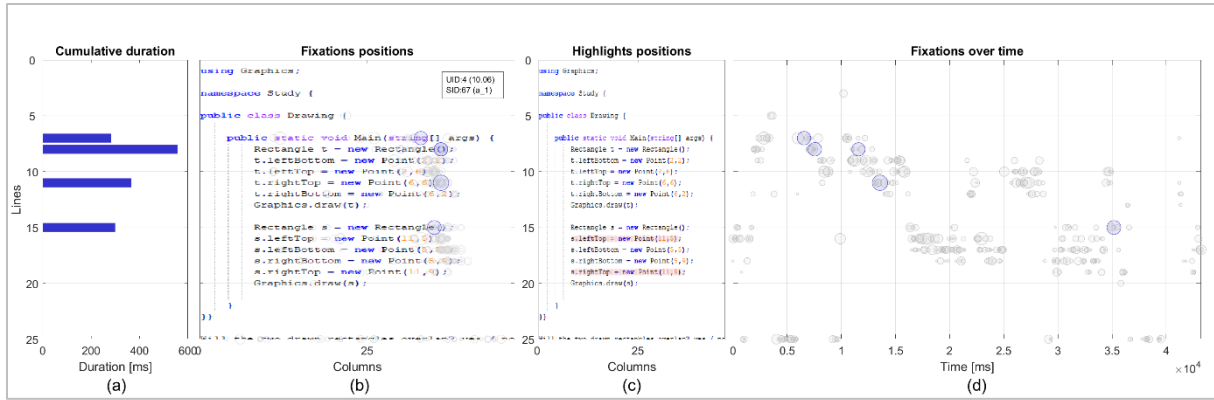


SID 67 – task a 1

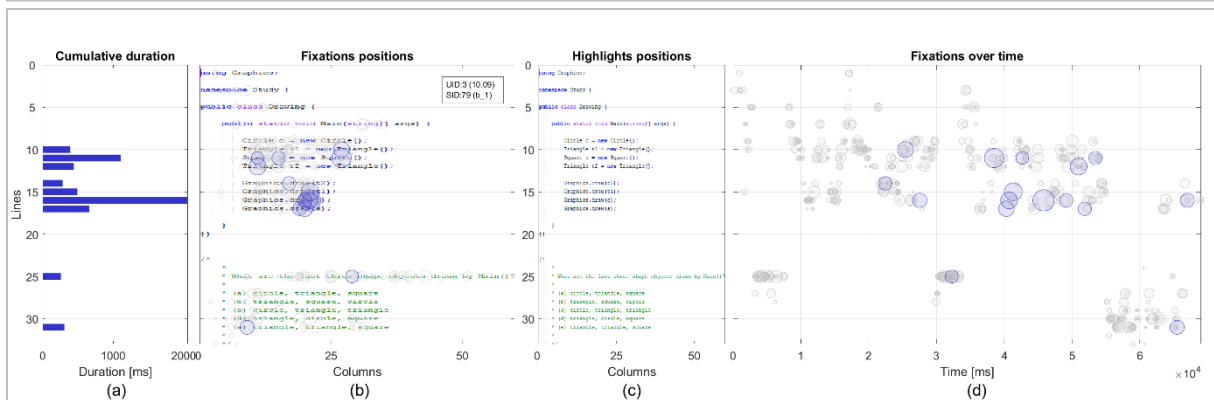
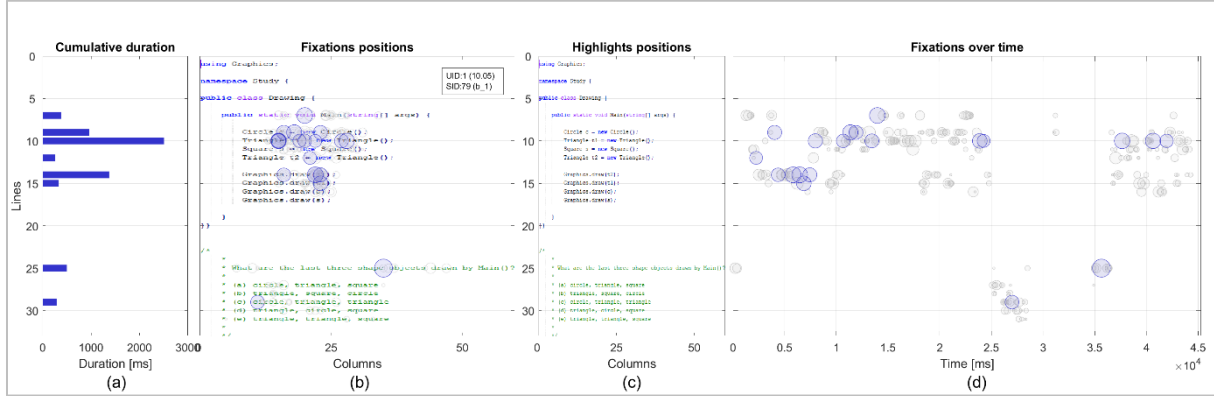


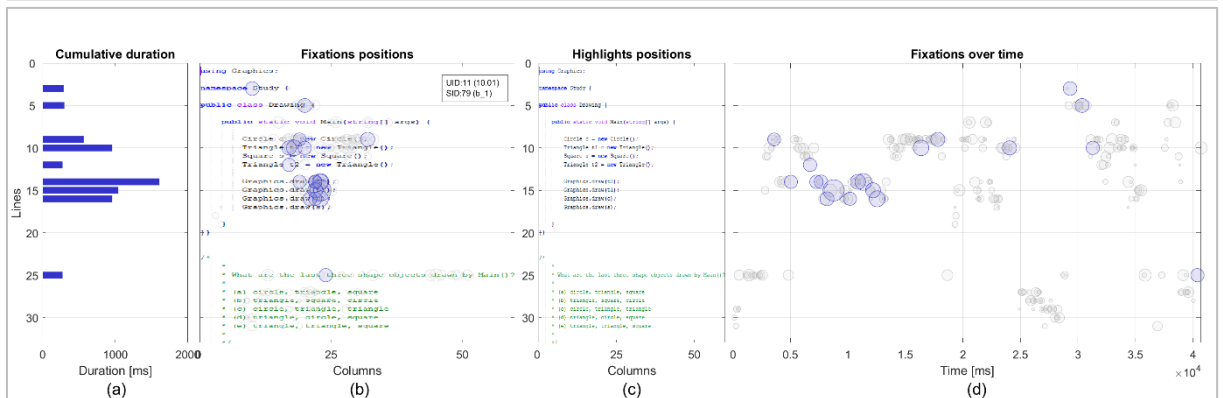
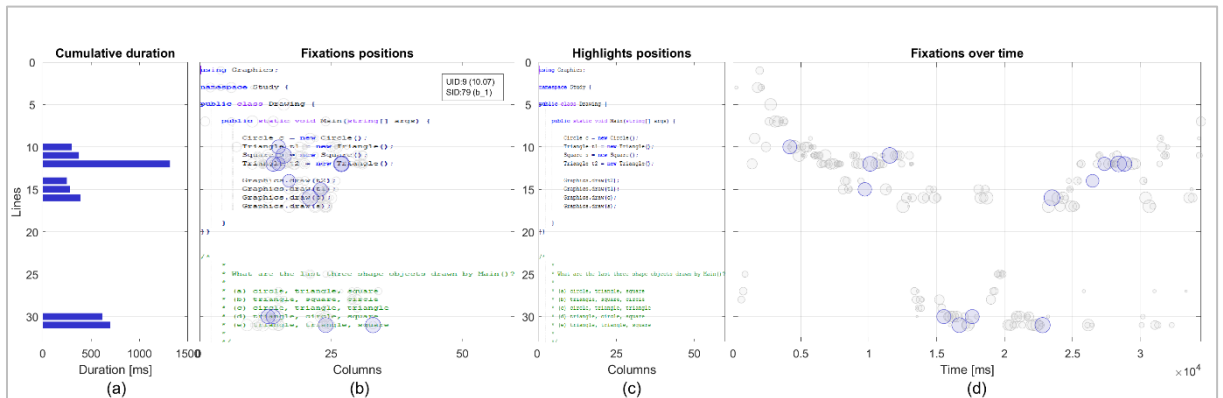
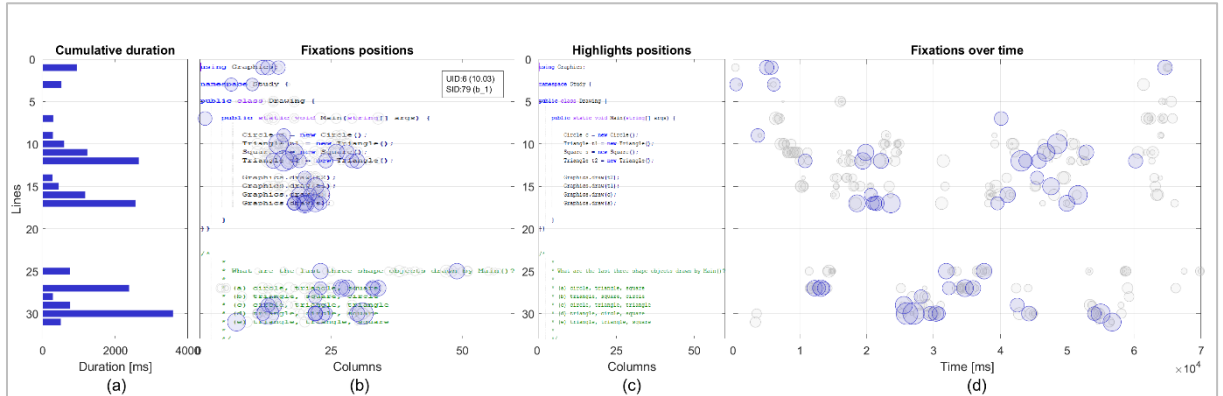
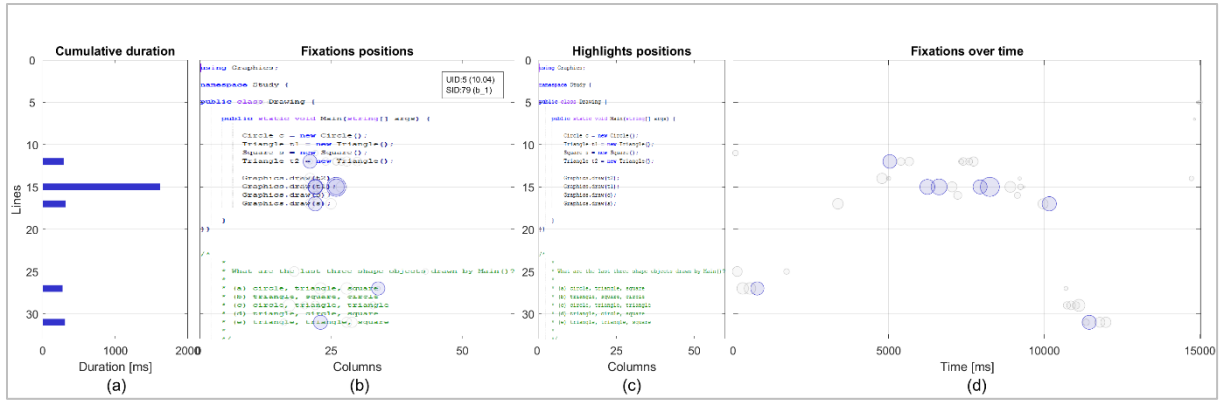






## SID 79 – task b\_1





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