

A. Visualisation Prototypes

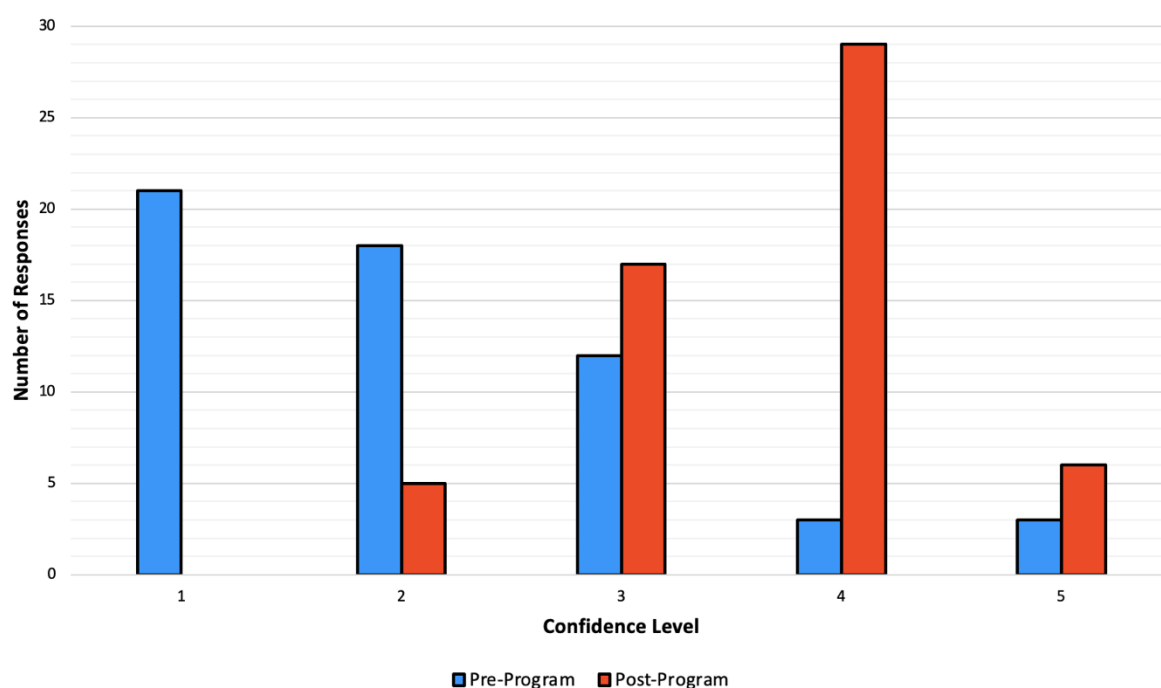
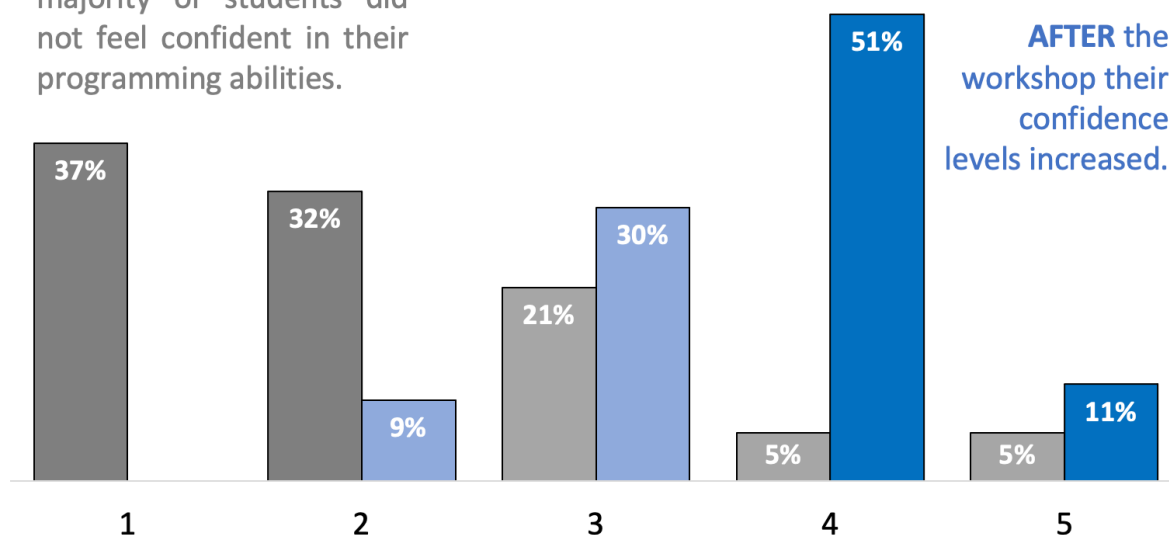


Figure A1. Prototype 1 (Exploratory)

On a scale from 1 to 5 how confident are you in Programming?

BEFORE the workshop, the majority of students did not feel confident in their programming abilities.



Source: Survey of 57 students following the workshop.

Figure A2. Prototype 1 (Explanatory)

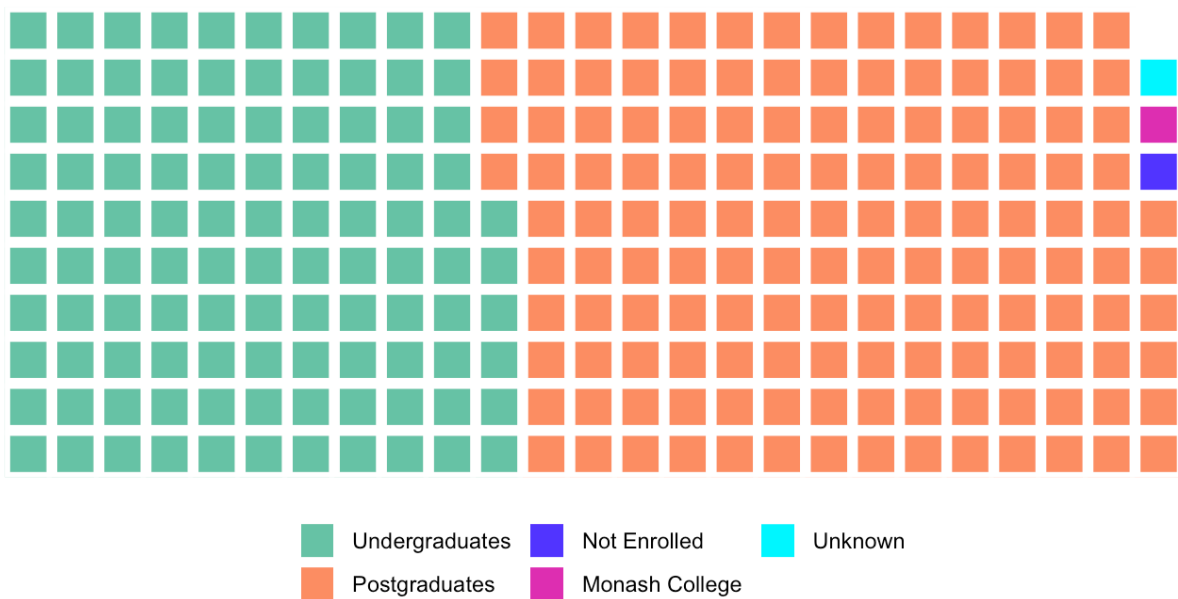


Figure A3. Prototype 2 (Exploratory)

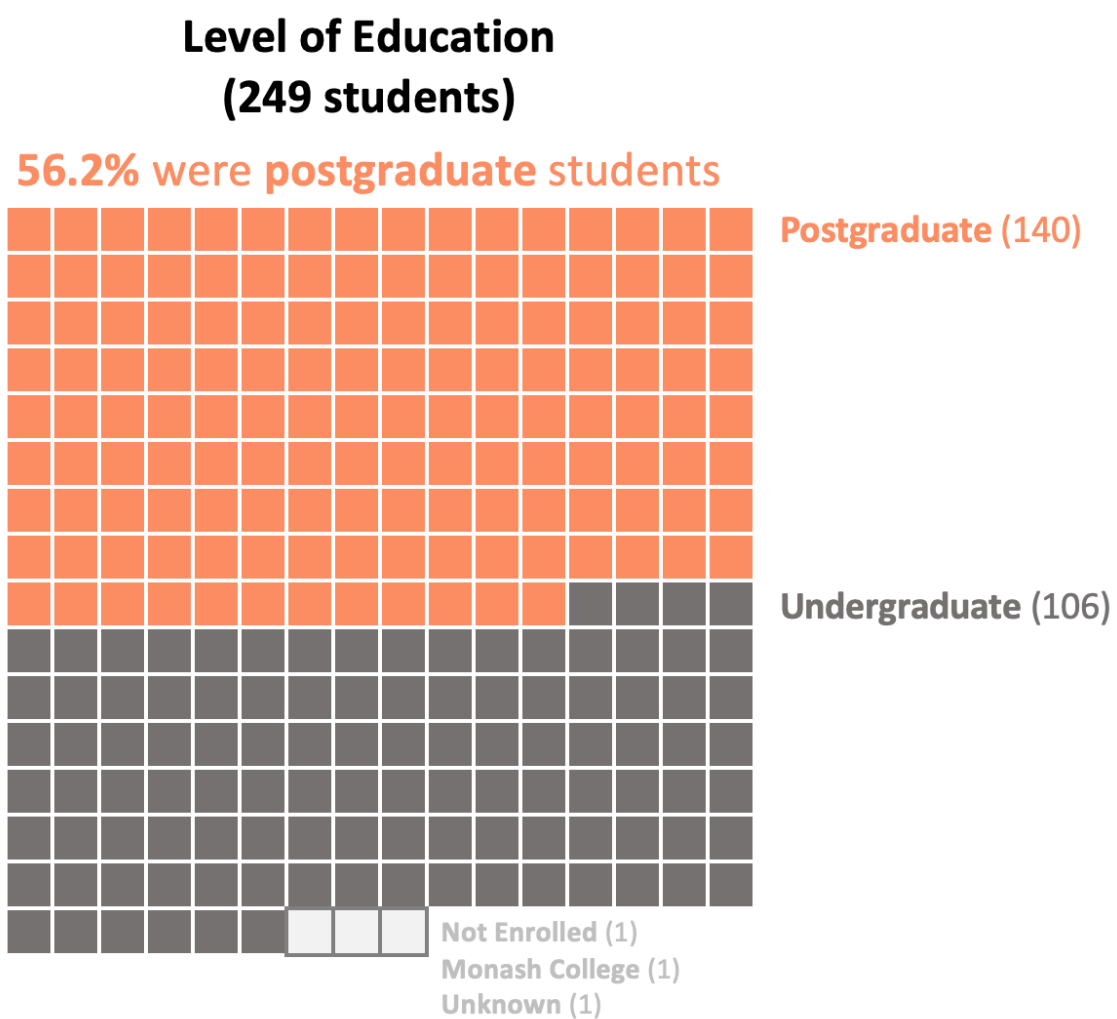


Figure A4. Prototype 2 (Explanatory)

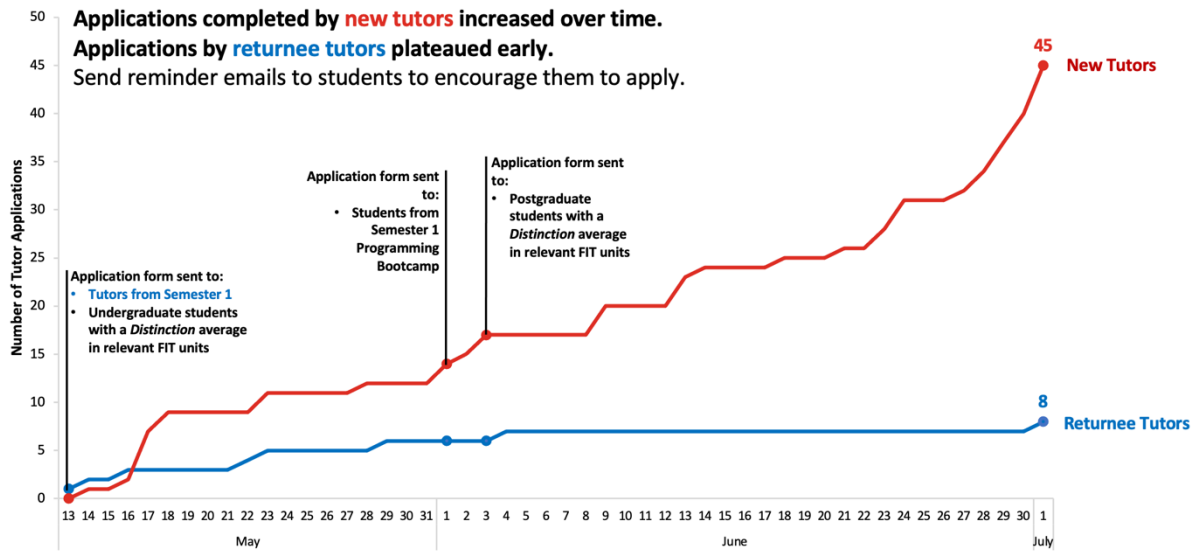


Figure A5. Prototype 3 (Explanatory)

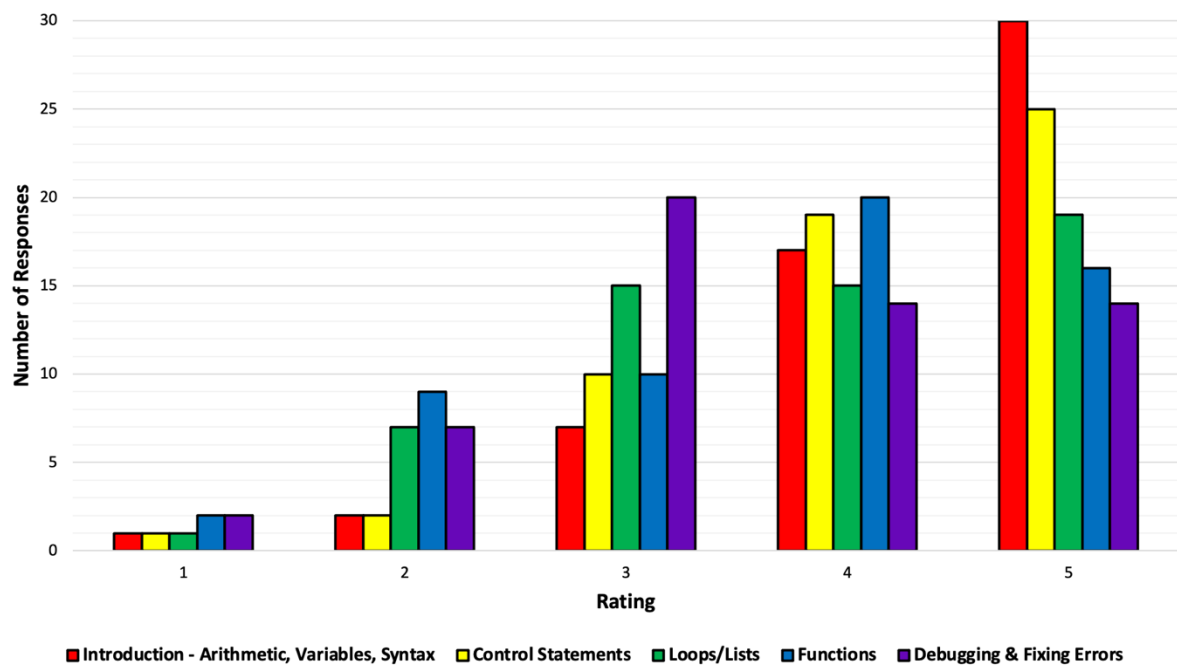


Figure A6. Prototype 4 (Exploratory)

B. Participant Co-Designs

On a scale from 1 to 5: Rate each workshop - Live Presentation, Group Exercises and Tutor Support

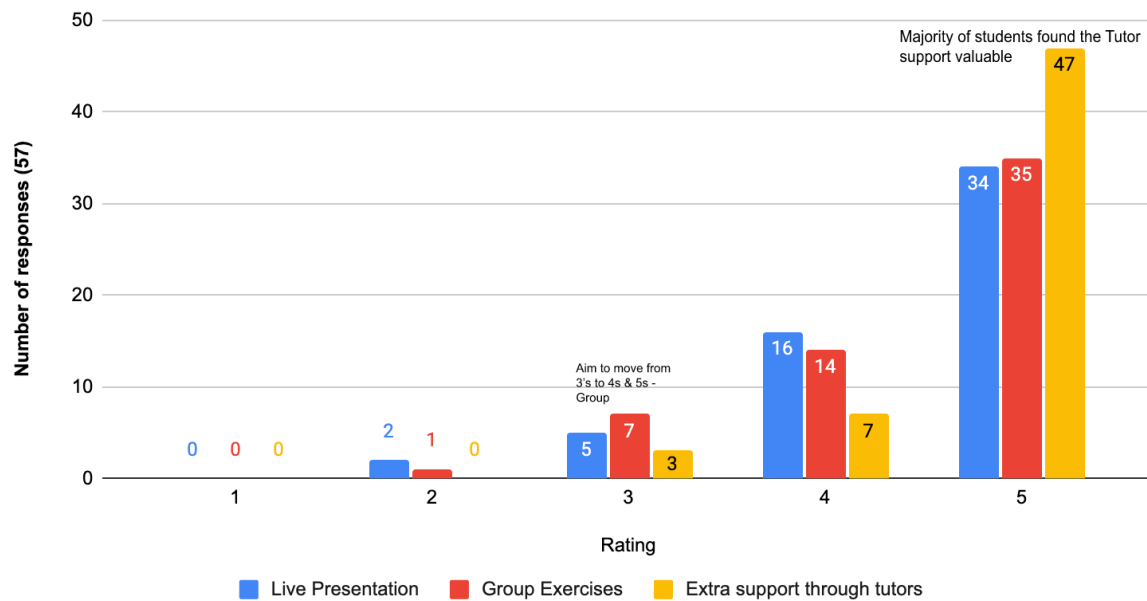


Figure B1. SE1 Co-Designed Data Story

Workshop activities feedback

Individual workshop activities

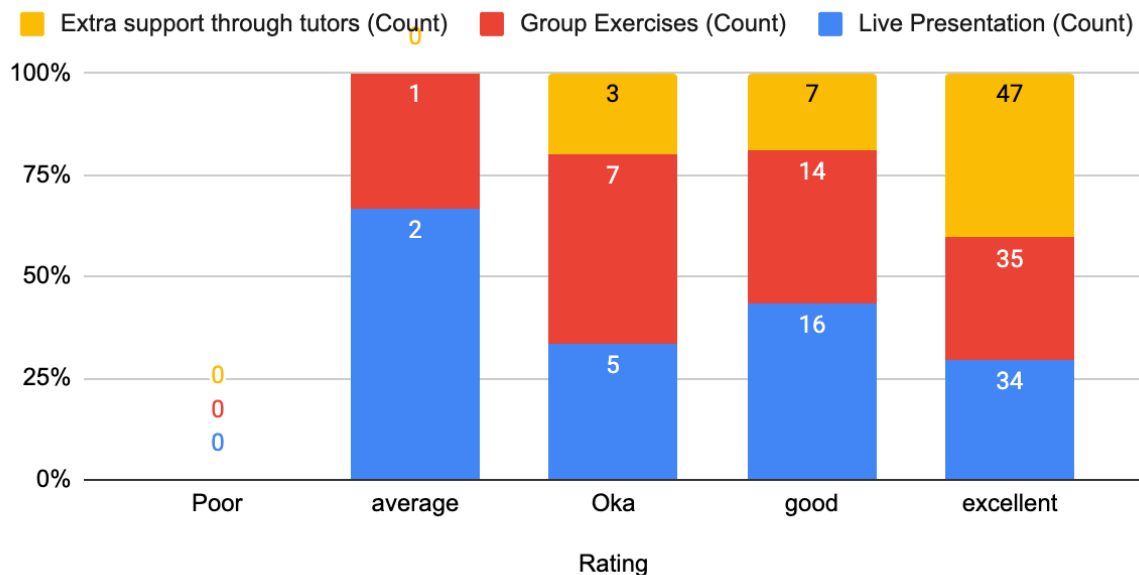


Figure B2. SE2 Co-Designed Data Story

What Activities Do Students Prefer?

Ratings Out Of 5 Per Delivery Mode

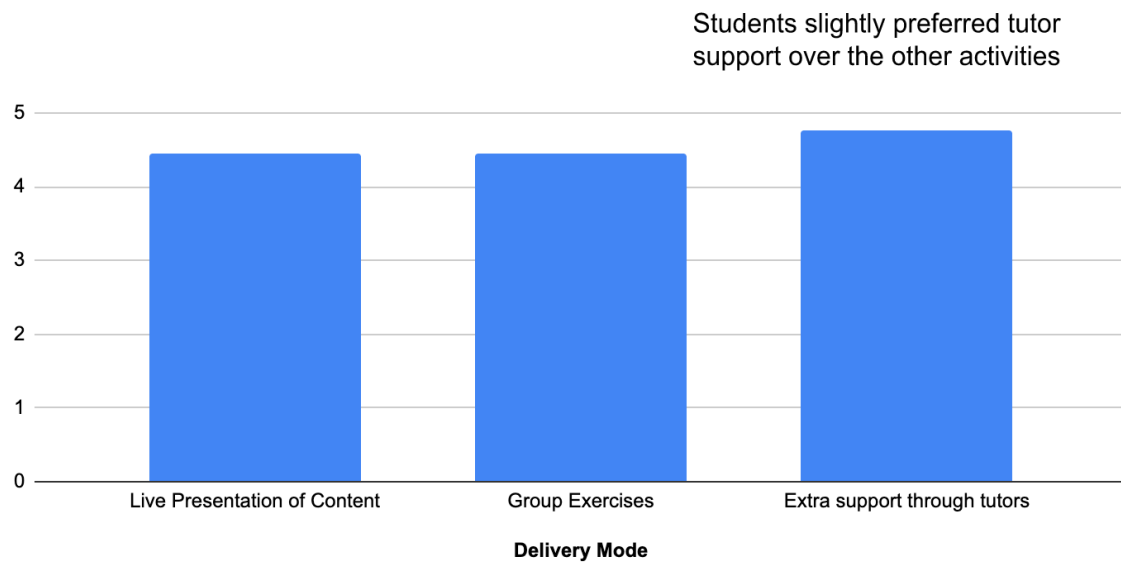


Figure B3. E1 Co-Designed Data Story

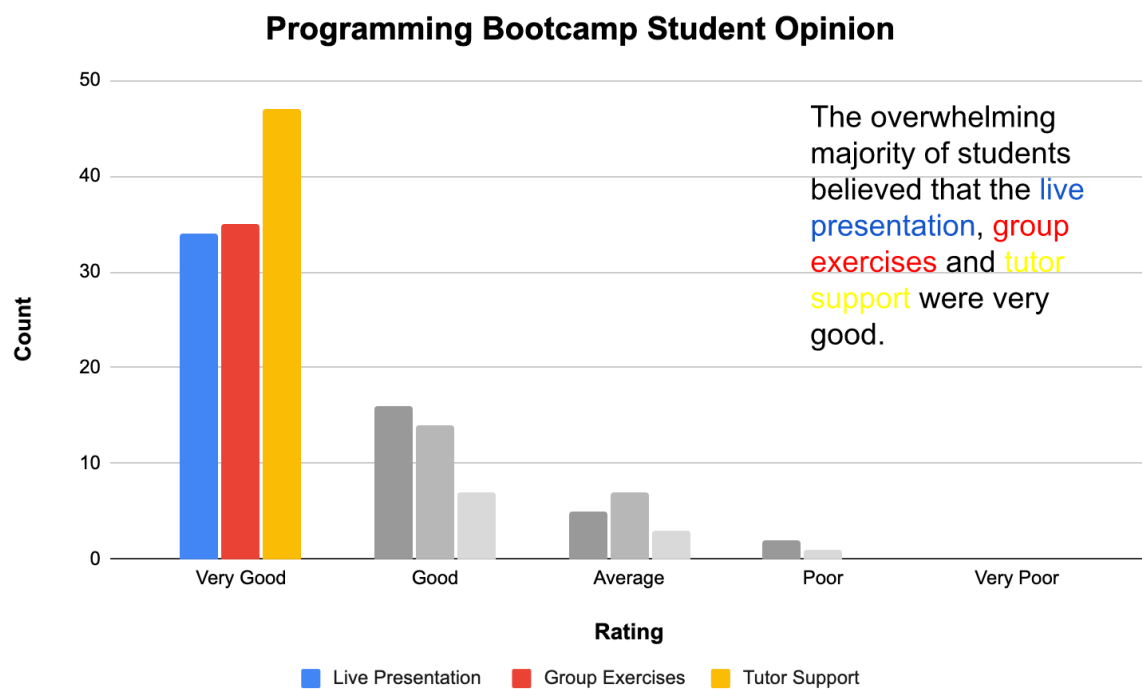


Figure B4. E2 Co-Designed Data Story

A bar chart comparing the counts of ratings for three activities: Live Presentation (Count), Group Exercises (Count), and Extra support through tutors (Count). The x-axis represents the Rating (1 to 5) and the y-axis represents the Count (0 to 50). The chart shows that the 'Extra support through tutors' activity received the highest number of 5-star ratings, followed by 'Live Presentation' and 'Group Exercises'.

Rating	Live Presentation (Count)	Group Exercises (Count)	Extra support through tutors (Count)
1	0	0	0
2	2	1	0
3	5	7	3
4	16	14	7
5	34	35	47

Hand-drawn diagram illustrating a 3D coordinate system with three axes:

- presentation**: The vertical axis, marked with 5, 10, 15, and 20. A pink horizontal line is drawn at the 10 mark, labeled 4.44 .
- group content**: The horizontal axis, marked with 5, 10, 15, and 20. A pink horizontal line is drawn at the 10 mark.
- tutor supp**: The diagonal axis, marked with 5, 10, 15, and 20. A pink horizontal line is drawn at the 10 mark.

To the right of the axes, there are three small boxes containing colored circles (green, yellow, orange) and a legend with colored circles and lines.

Figure B6. E4 Co-Designed Data Story

Students benefited the most from tutors when learning

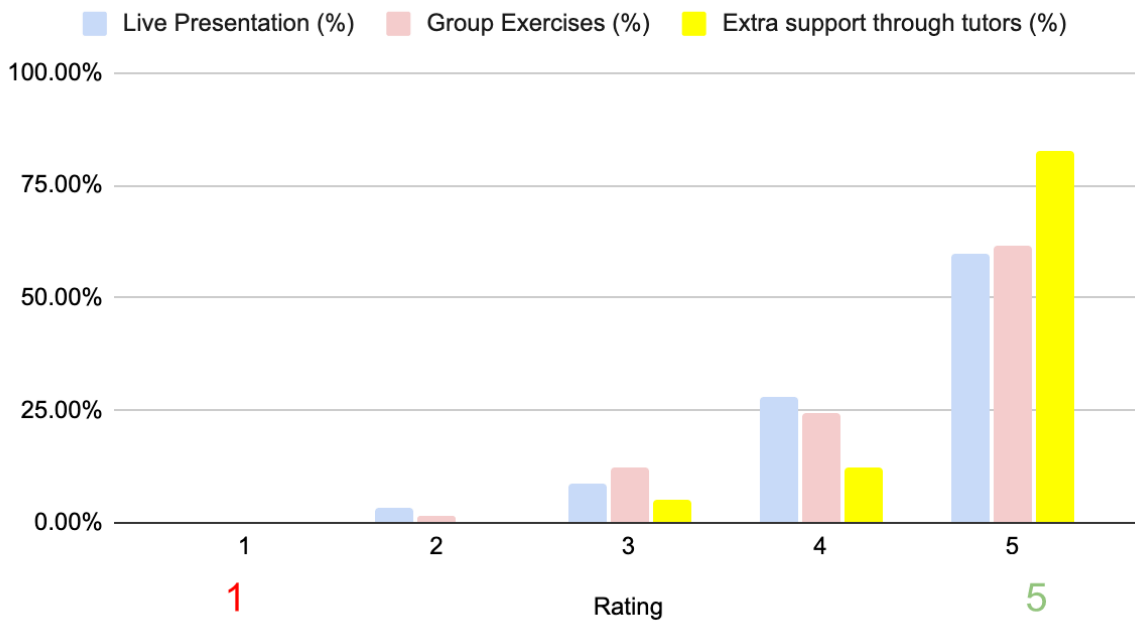
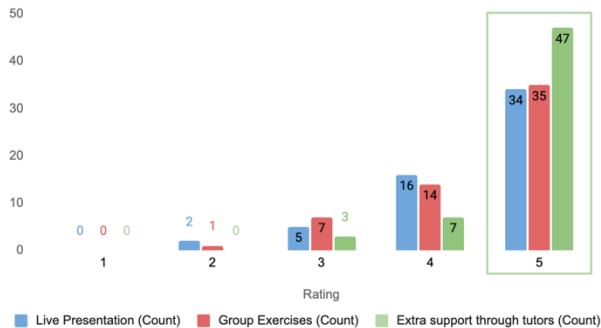


Figure B7. T1 Co-Designed Data Story

How do students rate different methods of content delivery ?



Mean increase in student rating as compared with live presentation

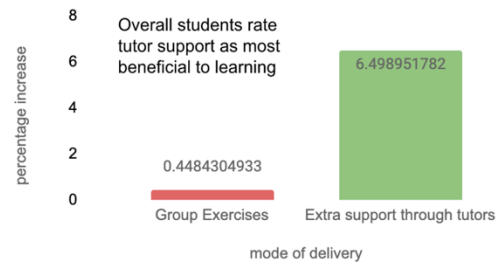


Figure B8. T2 Co-Designed Data Story

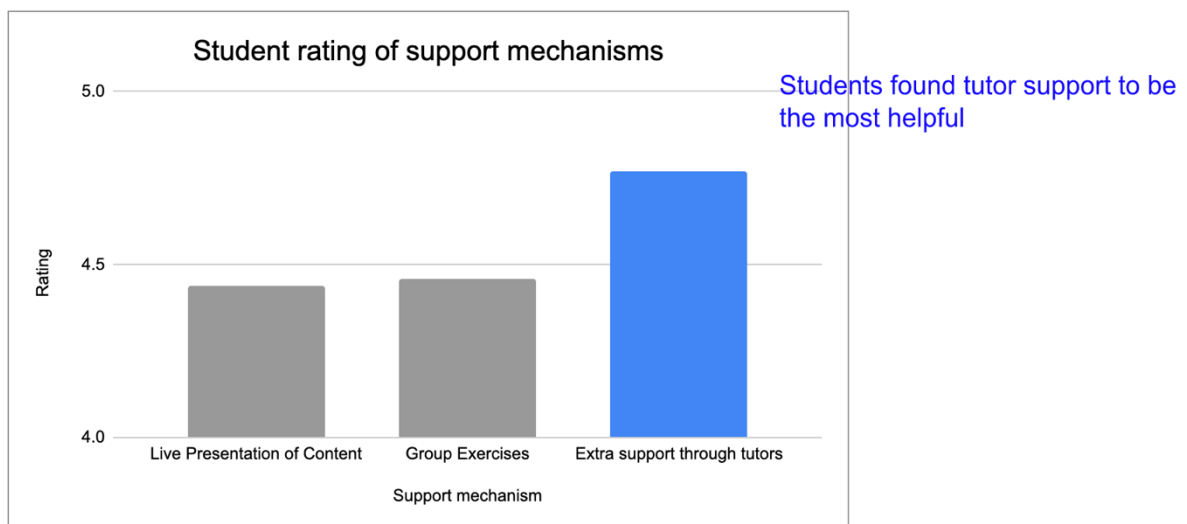


Figure B9. T3 Co-Designed Data Story

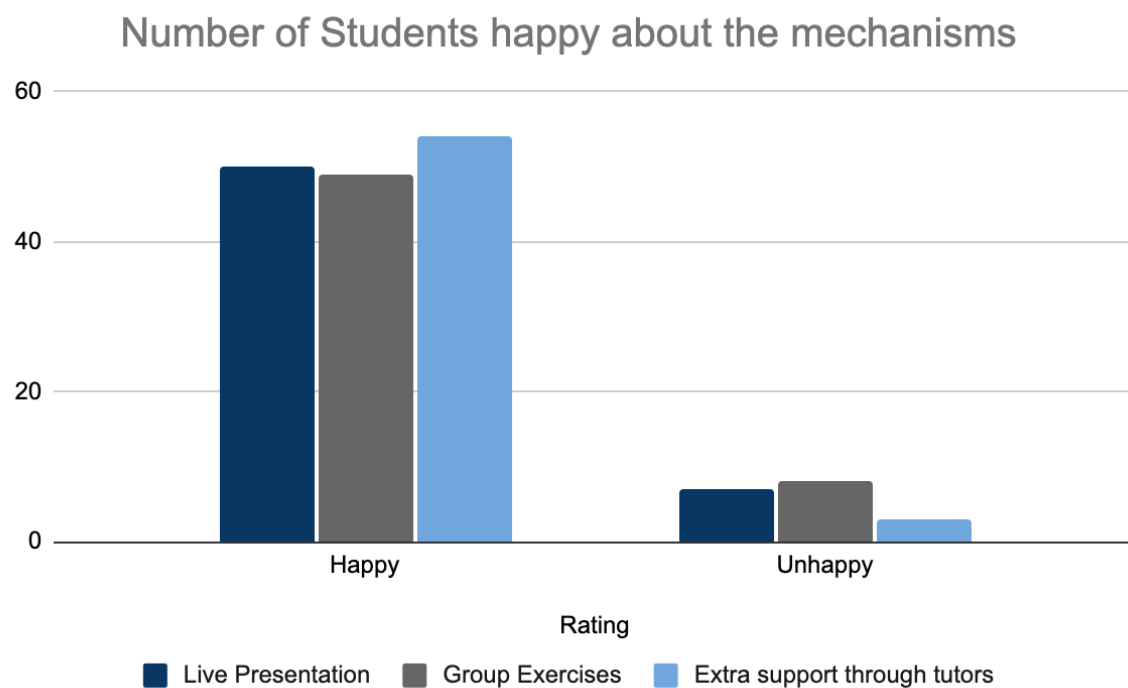


Figure B10. T4 Co-Designed Data Story