reference chart

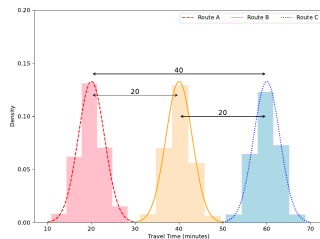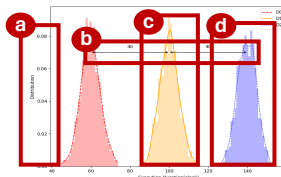**Round 0** *Color*: 60% *Text*: 84%

Generation Agent

Task: Generate chart that precisely replicates the reference chart.

generated chart (round 0)

Ground Truth Evaluation:
The generated chart has four differences with the provided reference chart in color and text aspects …
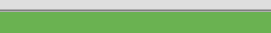
Round 1 *Color*: 60% *Text*: 100%

Visual Critique Agent

Task: Given ref chart and generted chart (round 0), critique for the difference.

chart critique (round 1)

(a) The generated chart has **different** Y-axis intervals (0.02) than reference chart (0.03) …
(b) The generated chart is **missing** the annotation label "80", which represent the distance between distribution "D0" and "D2" distribution.

Code Critique Agent

Task: Given chart critique (round 1) and generted code (round 0), critique for how to improve.

code critique (round 1)

Code Issues:
(a) Incorrect Y-axis tick intervals [line 17-20].
(b) Missed "80" arrow annotation [line 25-28].
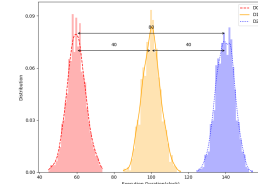
Code Revision Suggestions:
(a) TODO: Adjust the Y-axis tick intervals to 0.03.
(b) TODO: Add an arrow annotation with label of "80" between the peak of D0 and the peak of D2.
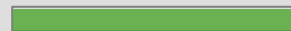
Revision Agent

Task: Revise the generated chart (round 0) based on critiques.
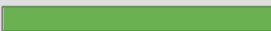
revised chart (round 1)

Round 2 *Color*: 100% *Text*: 100%

Visual Critique Agent

Task: Given ref chart and generted chart (round 1), critique for the difference.

chart critique (round 2)

(c) The D1 distribution in the reference chart is **colored** in a peach shade, but the generated chart uses a slightly darker light peach.
(d) The **color** of D2 Distribution in the reference chart is a light blue for the D2 distribution, but the generated chart uses a light purple.

Code Critique Agent

Task: Given chart critique (round 2) and revised code (round 1), critique for how to improve.

code critique (round 2)

Code Issues:
(c) The color filling of "D1" distribution is wrong. The correct color is (255, 227, 178) [line 18]
(d) The color filling of "D2" distribution is wrong. The correct color is (178, 178, 255) [line 19]

Code Revision Suggestions:
TODO: Adjust color filling of "D1" and "D2".

Revision Agent

Task: Revise the revised chart (round 1) based on critiques.

revised chart (round 2)