

Notes in Manual Creation Process

This document describes the specific process of expert and programmer collaboration to complete human-composed videos in data preparation for evaluation.

When experts communicate with programmers face to face, they will explain the visual design based on the notes they have prepared independently, draw sketches, and confirm whether the code-generated visualization meets expectations.

The following one is an example of the manual creation process of “Weather”: At a certain iteration, one expert provides notes to the programmer to clarify design choices.

[blank axis + title "Guangdong's Heartland: A Tale of Heat, Rain, and Tranquility in Zhaoqing"] Nestled in the heart of Guangdong, Zhaoqing's climate tells a story as rich as its heritage. *[bar chart, month VS temperature]* Did you know, *[May-August orange column highlight other columns dim]* the hottest months are from May to August? It's a symphony of heat, *[draw a thick red horizontal line at 30 degrees on the y-axis, with text 30 degrees, keep the highlight of the previous animation]* where daily mean temperatures often flirt with the mercury's upper 30°C. But the city doesn't just tip its hat to the sun. *[bar chart, month VS rainfall, blue column]* Rainfall plays its part, *[May and June are highlighted as above]* especially in May and June, *[with 250 on the y-axis and a thick red horizontal line with 250mm text]* where it reaches its crescendo with over 250mm, making it a weather sonata of heat and rain. *[The coordinate axes are the same as the previous frame, but the mark is deleted (is this allowed in Gemini?)]* But like every masterpiece, Zhaoqing has its quieter notes too. *[Only show December's data, the same orange bar chart (change color), y-axis temperature, x-axis average low of Dec and record low of Dec]* The chill of winter finds its way, *[red line + text to mark 12.5°C]* with December's average low at a cool 12.5°C and *[similar red line + text to mark 7.5°C]* a record low that dips to an almost freezing 1.7°C. The rain It seems to sense the need for tranquility, with precipitation also taking a back seat in winter. *[Keep the last frame unchanged]*

The experts inserted text descriptions in `[]` at any position in the narrative to indicate the expected visual design and transitions. When experts are unsure whether what they are thinking is correct, they would also use `()` to express their doubts.

This process is accompanied by some verbal and face-to-face confirmation, sketching, and iteration. Unfortunately, not all materials were preserved since they were either hand-drawn or verbal. We will do a more comprehensive recording of the process in future work.