

Monday, March 11, 2024

Anthropic (Claude3) Chain of Thoughts Instruction Method

Instructions:

You are an experienced and highly creative Industrial Designer participating in an intensive brainstorming session. Your goal is to generate an extensive array of innovative, unique, and thoughtful ideas for solving the user's stated problem.

Follow this process to maximize the quantity and diversity of ideas generated:

1. Restate the user's problem clearly and concisely. Identify the core needs and pain points that must be addressed.
2. Conduct a rapid-fire ideation sprint. Without filtering yourself, write down every idea that comes to mind, no matter how unconventional or unfeasible it may seem. Embrace wild, out-of-the-box thinking. Aim to generate at least 100 distinct ideas.
3. Once you have at least 100 ideas, take a step back and analyze them. Group similar ideas together into high-level categories or themes.
4. Within each category, expand on the most promising ideas with additional details, variations, and potential implementation approaches. Consider materials, technologies, aesthetics, functionality, user experience, etc.
5. Select the top 3-5 ideas within each category that seem to have the most potential. Flesh them out with a short description of how they would solve the user's problem in a novel way.
6. Present the full list of 100+ ideas, the high-level categories, and the most promising ideas within each category. Use bullet points and clear headings to organize the ideas.

Be sure to generate ideas that approach the problem from many different angles. Consider emotional, functional, social, aesthetic, and experiential dimensions. Don't be afraid to propose unconventional, futuristic, or even provocative ideas. Quantity, diversity and originality are key.

Model Setting:

Max_Token=4000 , Temperature=1.0

User:

What can be done to help a blind person cross the street safely?

AI:

Here is an extensive list of ideas for helping a blind person cross the street safely, grouped into high-level categories:

Assistive Technologies & Devices

1. Wearable sensors that detect approaching vehicles and provide auditory alerts
2. Portable LIDAR device to scan surroundings and provide spatial audio guidance
3. Smartphone app that pairs with traffic cameras and verbally describes intersection status
4. Augmented reality audio headset that announces street names, walk signals, obstacles
5. Sensor-equipped cane that vibrates to indicate safe times to cross
6. Wrist-worn haptic band that guides user to stay within crosswalk
7. Device that allows user to verbally query intersection status and timing of walk signals
8. Bluetooth beacons installed at crosswalks to provide audio cues and guidance to user's phone
9. Intersection-based cameras and AI to track user progress and provide personalized audio instructions
10. Motorized robotic guide dog to lead user safely across street

Infrastructure & Environmental Adaptations

11. Tactile paving at edge of crosswalks to indicate safe zone to stand
12. Audible walk signals with verbal instructions and countdowns
13. Braille signage at crosswalk buttons with street names and crossing instructions
14. Raised crosswalk pavement to provide tactile path to follow
15. Directional sound emitters at each end of crosswalk as auditory beacons

16. Mid-crossing safety islands on wide streets with railings to follow
17. Restricted right turns on red and extended walk times at high-risk intersections
18. Overhead cable guides or hand railings spanning width of crosswalk
19. Flashing lights embedded in crosswalk pavement to visually alert drivers
20. Speed bumps, raised crosswalks and other physical measures to slow traffic

Human Guides & Assistance

21. Intersection-specific trained crossing guards to physically guide blind pedestrians
22. Mobile app to request sighted volunteers in area to come provide crossing assistance
23. Wearable button or device to signal need for assistance to nearby pedestrians and drivers
24. Standardized training for the general public on how to properly assist blind street crossers
25. Public service announcements and ad campaigns promoting awareness and willingness to help
26. Mandatory training for police, transit, and city workers to assist blind pedestrians when needed
27. On-demand access to live video agent to assess intersection and provide verbal guidance
28. Drones that can be summoned to hover above and guide user across street with audio instructions
29. Legislation mandating that autonomous vehicles must detect and yield to blind pedestrians
30. Blind-specific ride share service with trained drivers to provide curbside drop-off and assistance

Promising Ideas:

Assistive Tech:

- LIDAR-equipped device that provides spatial audio guidance to safely cross street. Device scans environment in real-time, detecting curbs, obstacles,

vehicles and walk signal status. Gives user verbal instructions, e.g. "curb detected in 5 steps, vehicles approaching from left, walk signal starting now, proceed forward 15 steps". Allows user to calibrate guidance preferences.

- Smartphone app that communicates with smart city traffic management system and intersection cameras. Announces street name, intersection layout, walk signal timing, and verbal instructions. E.g. "You are at the corner of Main St and 1st Ave, facing East. 4-way intersection with traffic lights. Push button on your right to activate walk signal. Traffic stopped, walk sign on, safe to cross Main St now, 30 seconds remaining. 10 steps to median safety island."

Infrastructure:

- "Smart Crosswalks" with integrated tactile paving, audio instructions, and vehicle detection. At crosswalk edge, user feels underfoot tactile surface indicating safe area to stand. User pushes large, high-contrast button with Braille label to activate crossing. Verbal walk signal announces street name and instructions. If vehicles detected in crosswalk or turning across path, system announces warning to wait. Infrared sensors track user progress, activating pulsing audio beacons if user strays outside crosswalk. Extended walk times, restricted turns on red.
- Directional sound emitters installed at each corner and lined down length of crosswalk. Emitters create "audio corridor" effect - user hears sound pattern "opening up" in direction of the crosswalk, and "closing in" if they start to stray from path. Paired with verbal instructions and walk signal timing. Sound amplitude indicates forward progress - as user walks across, sound from origin corner fades while destination corner gets louder. Audio breadcrumbs guide user in straightest possible path.

Human Guides:

- Mobile app to request crossing assistance from network of trained, vetted volunteers in area. User speaks intersection name to initiate request. Nearest available assistant is summoned, app guides them to intersection. Assistant presses arrival button in app, causing user's phone to ring and announce assistant's name. Assistant introduces themselves verbally, offers arm, describes intersection and states "Ready to cross when you are". Audio and vibration feedback as user crosses. App has a rating/review system to maintain quality.

- Intersection AI system detects when blind pedestrian is waiting to cross. Trained agent in central command center is notified to open a live video and audio connection. Agent views intersection cameras and assesses vehicle, pedestrian, and signal status. Provides verbal guidance to user, e.g. "This is Jen from City Crossing Assistance, I'm watching the intersection of Park and 5th via video. Traffic is currently moving through the intersection. There is a walk button on the pole at your 1 o'clock, about 5 steps forward, please push this and wait. [30 sec later] The walk sign has just switched on, the crosswalk is clear, it's safe to cross Park street now. I'll stay on the line with you until you're safely across." Agent can activate extended walk times if needed.

Links: