

Monday, March 11, 2024

## Google (Gemini1.5) Chain of Thoughts Instruction Method

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### 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.

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### Model Setting:

Max\_Token=4000 , Temperature=1.0

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User:

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

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AI:

**User's Problem:** Safely navigating blind pedestrians across streets

**1 - Rapid-Fire Ideation Sprint (100+ Ideas):**

- Smart cane with integrated ultrasonic or lidar sensors for obstacle detection
- Wearable haptic vest that vibrates to indicate obstacles and safe paths
- App that connects visually impaired pedestrians with nearby sighted individuals who can guide them
- Self-driving vehicle service dedicated to transporting visually impaired individuals
- Overhead guide rails with audible or haptic cues to direct pedestrians
- Infrared platform shoes that detect heat signatures of nearby vehicles
- Pedestrian-activated traffic lights with extended green time for visually impaired
- Audio crosswalks that emit directional sounds to guide pedestrians
- Night-vision glasses or implants that enhance visibility in low-light conditions
- Reflective vests or clothing that increase visibility to drivers
- Wristbands that emit Bluetooth signals to nearby drivers, alerting them to the presence of a visually impaired pedestrian
- Laser-guided walking stick that projects a visible path on the ground
- AI-powered wheelchair that navigates streets autonomously
- Portable voice assistant with location-based street navigation
- Guided service animals specifically trained to assist blind pedestrians
- Above-ground tactile paths with raised surfaces to indicate safe routes
- Solar-powered street signs that light up or change color when pedestrians approach
- Augmented reality glasses that provide real-time street information and navigation
- Intersection cameras that detect blind pedestrians and alert drivers with flashing lights
- Pedestrian bridges with clear glass panels for visually impaired to see traffic
- Mobile app that allows visually impaired pedestrians to report unsafe intersections or request assistance
- Drone-based surveillance system that monitors traffic and notifies pedestrians of approaching vehicles

**2 - High-Level Categories:**

- Advanced Wearables
- Infrastructure Modifications
- Navigation Tech
- Enhanced Senses
- Assistance Services

### **3 - Promising Ideas within Each Category:**

#### **Advanced Wearables:**

- Haptic vest that provides real-time feedback on obstacles
- Bluetooth-enabled wristband that connects to drivers' devices for safer crossings
- Smart cane with obstacle detection and AI guidance

#### **Infrastructure Modifications:**

- Pedestrian-activated traffic lights with extended green time
- Overhead guide rails with audible or haptic cues
- Laser-guided walking stick that projects a visible path
- Guided tactile paths to indicate safe routes

#### **Navigation Tech:**

- Portable voice assistant with location-based street navigation
- Augmented reality glasses that provide real-time information
- Mobile app that detects unsafe intersections and requests assistance

#### **Enhanced Senses:**

- Infrared platform shoes that detect heat signatures of vehicles
- Night-vision technology to enhance visibility in low light

#### **Assistance Services:**

- App that connects visually impaired pedestrians with nearby sighted guides
- Self-driving vehicle service dedicated to visually impaired individuals
- Drone-based surveillance system that provides traffic alerts

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#### **Links:**

[https://makersuite.google.com/app/prompts?state=%7B%22ids%22%3A%5B%221Tx1F3PAY\\_S87y2iuYhZ31l0Wcp\\_djF1h%22%5D%2C%22action%22%3A%22open%22%2C%22userId%22%3A%22110640208940257660572%22%2C%22resourceKeys%22%3A%7B%7D%7D&usp=sharing](https://makersuite.google.com/app/prompts?state=%7B%22ids%22%3A%5B%221Tx1F3PAY_S87y2iuYhZ31l0Wcp_djF1h%22%5D%2C%22action%22%3A%22open%22%2C%22userId%22%3A%22110640208940257660572%22%2C%22resourceKeys%22%3A%7B%7D%7D&usp=sharing)