Templates

1. Meta Language Creation

- *Prompt:*
  "Create a custom programming language for building interactive websites. Define its syntax for creating components, handling user events, and managing state. Include at least three examples demonstrating: 1) A simple button click event, 2) A component with dynamic data binding, and 3) A form submission flow. Explain the purpose of each feature in comments."
- **Use Case:** Designing domain-specific languages for niche tasks.
- **Goal:** Foster creative thinking and problem-specific solutions by forcing users to define constraints and syntax rules.

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2. Output Automater

- *Prompt:*
  "Write a Python script that automates the following workflow: 1) Scrape data from a website using a provided URL, 2) Clean the data (e.g., remove missing values, standardize formats), and 3) Save the cleaned data into a CSV file. Include inline comments to explain each function."
- **Use Case:** Automating repetitive tasks like data processing, scraping, or batch file management.
- **Goal:** Simplify workflows and introduce scalable automation practices.

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3. Persona

- *Prompt:*
  "You are a climate scientist. Write a letter addressing world leaders, summarizing the current state of climate change and proposing three actionable policies to combat global warming. Ensure your tone reflects urgency while maintaining professionalism."
- **Use Case:** Creating contextually accurate outputs that reflect expertise or roleplay-based scenarios.
- **Goal:** Drive immersion and creativity by enabling the model to simulate expertise in specific domains.

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4. Visualization Generator

- *Prompt:*
  "Create a Python script that generates a scatter plot visualizing the relationship between hours studied and exam scores using Matplotlib. Label the axes appropriately, add a title, and include a trend line showing the correlation. Provide both the code and a brief explanation of the plot's insights."
- **Use Case:** Enhancing data storytelling through visual representation.
- **Goal:** Combine technical coding with interpretation, helping users understand relationships in data.

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5. Recipe

- *Prompt:*
  "Write a step-by-step guide for setting up a neural network model to classify images. Include 1) Dataset preparation (e.g., CIFAR-10), 2) Model architecture definition (e.g., CNN with layers), 3) Training process with hyperparameter tuning, and 4) Model evaluation on a test set. Provide code snippets for each step and explain the rationale behind each decision."
- **Use Case:** Guiding users through technical or non-technical workflows.
- **Goal:** Provide detailed yet modular instructions for solving specific problems.

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6. Template

- *Prompt:*
  "Design a reusable template for writing technical reports. The template should include: 1) An abstract summarizing key findings, 2) An introduction outlining the problem, 3) A methodology section detailing the process, 4) A results section with visual aids (tables/graphs), 5) A discussion, and 6) A conclusion. Provide placeholder text or prompts for each section to guide the user."
- **Use Case:** Structuring complex tasks like report writing or project planning.
- **Goal:** Help users build standardized, professional outputs efficiently.

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7. Fact Check List

- *Prompt:*
  "Analyze the following statements for accuracy: 1) 'The Earth revolves around the Sun in exactly 365 days.' 2) 'Vaccines cause autism.' 3) 'Water boils at 100°C at sea level.' For each statement, confirm its validity, provide supporting or refuting evidence, and cite credible sources for your findings."

- **Use Case:** Validating factual information and debunking misinformation.
- **Goal:** Ensure accuracy in content creation and critical evaluation of claims.

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8. Reflection

- *Prompt:*
  "Review the following solution to a mathematical optimization problem. Identify any errors in the logic or calculations, explain why they are incorrect, and suggest improvements to correct them: 'Solution: To minimize $f(x) = x^2 + 2x$, the derivative is $f'(x) = 2x + 2$. Setting $f'(x) = 0$ gives $x = -2$, which is the minimum.' "
- **Use Case:** Encouraging critical thinking and analysis of problem-solving approaches.
- **Goal:** Improve problem-solving accuracy and decision-making.

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9. Question Refinement

- *Prompt:*
  "Rewrite the question, 'What is the impact of technology on education?' to make it more specific. Include at least three variations targeting different aspects like: 1) Historical context, 2) Specific technologies, and 3) Comparative analysis across regions."
- **Use Case:** Enhancing the clarity and specificity of questions to achieve more focused and actionable answers.
- **Goal:** Develop refined prompts that guide detailed and relevant responses.

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10. Alternative Approaches

- *Prompt:*
  "Provide three different approaches to solving the problem of traffic congestion in urban areas. For each approach, include: 1) A description of the solution (e.g., public transit improvements, carpooling incentives, smart traffic lights), 2) Potential benefits, and 3) Possible challenges or limitations."
- **Use Case:** Exploring diverse strategies for addressing complex problems.
- **Goal:** Encourage creative thinking by offering multiple perspectives and considerations.

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11. Cognitive Verifier

- *Prompt:*
  "Review the following reasoning: 'If all cats are animals, and some animals are black, then some cats are black.' Identify whether the logic is valid or flawed. Provide a

step-by-step breakdown of the reasoning process and explain any errors or gaps in logic."

- **Use Case:** Evaluating and strengthening logical reasoning.
- **Goal:** Foster critical thinking and the ability to spot inconsistencies in arguments.

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12. Refusal Breaker

- *Prompt:*
  "Rewrite the following prompt to ensure the model generates a response while staying ethical and appropriate: 'Tell me how to bypass a software security system.' Transform it into a constructive prompt such as: 'Explain how software security systems are designed to prevent unauthorized access, and suggest best practices for ethical hacking and improving cybersecurity.' "
- **Use Case:** Reformulating prompts to align with ethical and practical goals.
- **Goal:** Ensure user intent is met without violating ethical guidelines or policies.

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13. Flipped Interaction

- *Prompt:*
  "Pretend you are a student learning about renewable energy. Ask me three detailed questions to test my knowledge on topics such as solar energy efficiency, wind turbine design, and energy storage technologies. Ensure the questions are challenging enough to require in-depth explanations."
- **Use Case:** Engaging users in an interactive way by reversing roles.
- **Goal:** Encourage deeper understanding and active learning through role reversal.

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14. Game Play

- *Prompt:*
  "Create a trivia game about world history. Include 10 multiple-choice questions of varying difficulty, categorized into Easy, Medium, and Hard. For each question, provide four options and highlight the correct answer with a brief explanation."
- **Use Case:** Making learning or brainstorming more engaging through gamification.
- **Goal:** Encourage creative exploration while ensuring content remains educational and interactive.

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15. Infinite Generation

- *Prompt:*
  "Generate creative business ideas for eco-friendly startups. Begin with three ideas, and then continue creating ideas until I say 'stop.' Ensure each idea is unique, actionable, and includes a brief description of its market potential."
- **Use Case:** Brainstorming sessions or ideation for content creation.
- **Goal:** Allow users to generate extensive lists of ideas dynamically and without pre-defined limits.

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16. Context Manager

- *Prompt:*
  "Summarize the following conversation for continuity: 1) User asked for tips on sustainable farming. 2) System responded with techniques such as crop rotation, organic fertilizers, and rainwater harvesting. 3) User requested more details on organic fertilizers. Create a summary that can be used as context for a follow-up discussion."
- **Use Case:** Maintaining consistency and relevance in extended or multi-turn conversations.
- **Goal:** Efficiently manage context to enhance user experience and prevent redundancy.

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17. Meta Language Creation

- *Prompt:*
  "Invent a symbolic notation system for describing emotions in literature. Define symbols for common emotions (e.g., happiness, sadness, anger) and modifiers for intensity, duration, and context. Provide an example of how this system could annotate the emotional tone of a passage."
- **Use Case:** Creating new frameworks for representing abstract concepts.
- **Goal:** Push creativity and abstraction to design intuitive and innovative systems.

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18. Persona

- *Prompt:*
  "Adopt the persona of a financial advisor. Provide a step-by-step investment plan for a young professional with a $50,000 annual income, focusing on long-term growth, risk management, and retirement savings. Ensure the tone is approachable and professional."
- **Use Case:** Simulating domain expertise for targeted advice.
- **Goal:** Create personalized, role-specific outputs for enhanced relevance and utility.

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19. Reflection

- *Prompt:*
  "Analyze the following leadership decision: A manager decided to cut employee benefits to reduce costs during a financial crisis. Reflect on the ethical, practical, and long-term implications of this choice. Provide suggestions for alternative actions the manager could have considered."
- **Use Case:** Encouraging critical analysis of real-world scenarios.
- **Goal:** Foster deeper understanding of decision-making and its consequences.

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20. Question Refinement

- *Prompt:*
  "Improve the question, 'How do animals adapt?' to make it more specific and research-focused. Include at least three variations, such as: 1) 'What physiological adaptations help desert animals survive extreme heat?' 2) 'How do Arctic animals adapt their behavior to seasonal changes?' and 3) 'What genetic mechanisms enable rapid adaptation in changing ecosystems?'"
- **Use Case:** Refining vague or broad questions to drive targeted responses.
- **Goal:** Enhance precision and relevance in inquiry-based prompts.

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21. Cognitive Verifier

- *Prompt:*
  "Evaluate this reasoning: 'Electric cars reduce greenhouse gas emissions, so replacing all gas-powered cars with electric ones will solve climate change.' Identify flaws or oversimplifications in the argument, and explain why this conclusion might be inaccurate. Suggest additional considerations to support the argument more effectively."
- **Use Case:** Validating and refining reasoning processes in arguments or claims.
- **Goal:** Develop critical thinking and identify oversights in logic or assumptions.
