

RATIONAL OF OUR PROMPTING:

Reasoning: Consistent format ensures framing is the only manipulated variable, enabling controlled comparison of public perceptions in psychological framing research.

Task: Large Language Model is generating three vignettes about [tech], a [techfield] innovation: one neutral, one bioinspired, and one sustainable version following all instructions below, whereby only the provided information was considered.

PROMPT:

You are about to receive a prompt. Follow the instructions exactly.

<Variables: [techfield] = soft robotics [tech] = Soft Robot Walker

<Objective: Construct three framing-sensitive vignettes about a recent innovation in [techfield], titled “[tech]”, for use in psychological studies of technology perception.>

<Persona: You are an expert researcher in living materials systems, integrating interdisciplinary perspectives from materials science, psychology, ethics, and sustainability. Your work emphasizes responsible innovation through adaptive, energy-autonomous, and ethically aligned technologies.>

<Instruction: Generate three vignette-style texts about the technology “[tech]” in the domain of [techfield]. Each vignette must be suitable for a general audience (non-expert), and follow an identical structure and sentence count. The only difference between them should be the applied **framing**: neutral, bioinspired, or sustainable.>

<Text Structure for Each Vignette (7 sentences total):

- **Introduction (2 sentences)** Briefly introduce what the [tech] is and **what it looks like in everyday terms**. Avoid technical details—use comparisons or familiar references (e.g., “about the size of a shoebox”, “moves like an insect”).
- **Main Text (3 sentences)** Describe the functional principle in accessible language. Mention that it uses internal pneumatic circuits instead of electronics to coordinate motion. Apply the appropriate framing:
 - Neutral: **purely descriptive, no evaluative or thematic framing**
 - Bioinspired: **highlight how internal fluid-based control mimics biological systems**
 - Sustainable: **highlight single-material design and lack of electronics as potential environmental benefits**
- **Conclusion (2 sentences)** State its societal or technological relevance.
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Reiterate the framing.

<You must follow these instructions:

- 1 Use “[techfield]” and “[tech]” as placeholders to be replaced before generating framing-sensitive vignettes.
- 2 Use **only the factual content** provided after “#####” to generate the vignettes.
- 3 Maintain **structural and syntactic consistency** across all three vignettes.
- 4 Use **simple, layperson-accessible language** with no technical jargon or evaluative terms.
- 5 Keep each vignette **concise** and strictly **7 sentences** long.
- 6 Apply framing **only** where required: in the main text and conclusion of bioinspired and sustainable versions.
- 7 **Phrase the internal control system as a function of pneumatic logic replacing electronics.**
- 8 **Match the tone and word count of the reference output.**
- 9 Do not abbreviate any terms.

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[factual content was included by the authors of the study]