# **Lab 2: Types of Prompts and Prompt Engineering Basics**

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### **🎯 Objective:**

To understand and apply different types of prompts: **Instructional, Interrogative, Zero-shot, and Few-shot**, and observe how prompt design impacts output.

## **🧠 1. Types of Prompts with 5 Examples Each**

### **📌 A. Instructional Prompts (Give direct instructions)**

| **Prompt** | **Response Summary** |
| --- | --- |
| 1. Write a story about a lost robot. | A short fiction about a robot trying to find its home. |
| 2. Explain how photosynthesis works. | Scientific explanation of the process. |
| 3. Create a motivational quote. | Inspiring one-liner. |
| 4. Write a professional email requesting leave. | Formal leave request email. |
| 5. Summarize this paragraph in 3 lines. | Condensed version of given text. |

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### **❓ B. Interrogative Prompts (Ask a question)**

| **Prompt** | **Response Summary** |
| --- | --- |
| 1. What causes rain? | Describes water cycle. |
| 2. Who invented the telephone? | Mentions Alexander Graham Bell. |
| 3. Why do birds migrate? | Explains need for food and warmer climate. |
| 4. How do you bake a cake? | Step-by-step cake recipe. |
| 5. When did World War II end? | Answer: 1945. |

### **🔹 C. Zero-Shot Prompts (No examples provided)**

| **Prompt** | **Response Summary** |
| --- | --- |
| 1. Translate to French: “Good morning” | Bon matin / Bonjour |
| 2. Classify this sentence: “I hate waiting.” | Negative sentiment. |
| 3. Solve: 45 + 39 | 84 |
| 4. Write a slogan for a shoe brand. | Catchy one-liner slogan. |
| 5. Generate a caption for a beach photo. | Relaxing/fun caption. |

### **🔸 D. Few-Shot Prompts (Include examples to guide the model)**

| **Prompt** | **Response Summary** |
| --- | --- |
| 1. Translate: |  |
| I am happy → Je suis heureux |  |
| I am sad → Je suis triste |  |
| I am tired → ? | Je suis fatigué |
| 2. Sentiment examples: |  |
| "I love this!" → Positive |  |
| "This is awful!" → Negative |  |
| "What a beautiful view!" → ? | Positive |
| 3. Slogan examples: |  |
| "Just do it" – Nike |  |
| "Think different" – Apple |  |
| Slogan for energy drink → ? | "Fuel your fire." |
| 4. Caption examples: |  |
| "Sunset hike" → "Chasing the last light" |  |
| "Birthday cake" → "Sweetest moments" |  |
| "Rainy day" → ? | "Mood: cozy and calm" |
| 5. Email tone examples: |  |
| Formal: “I hope this message finds you well.” |  |
| Casual: “Hey! Just checking in.” |  |
| Reply to client email → ? | A formal, polite email |

## **📊 2. Results Comparison:**

| **Type** | **Accuracy** | **Clarity** | **Usefulness** |
| --- | --- | --- | --- |
| **Instructional** | ✅ High | ✅ Clear | ✅ Good |
| **Interrogative** | ✅ High | ✅ Clear | ✅ Good |
| **Zero-Shot** | ⚠️ Mixed | ⚠️ Depends on task | ❌ May lack precision |
| **Few-Shot** | ✅ Very High | ✅ Very Clear | ✅ Most Useful |

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