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OER 4.1.1

Syntactic Structure of Effective Prompts: Role, Context, Task, and Constraints

Identifier	OER 4.1.1
Title	Syntactic Structure of Effective Prompts: Role, Context, Task, and Constraints
Creator	Directorate of Secondary Education of Dodecanese - Greece
Description	The resource presents the syntax of the effective prompt: the minimal structure of role, context, task and constraints that turns a generic request into a controllable and verifiable teaching artefact. Written for non-technical teachers, it analyses the specific function of each pillar and shows how to verify that none remains implicit. The critical focus is on the role, which orients the machine's discourse but does not certify the truth of what it produces.
Keywords	prompt engineering; structured prompt; role; context; task; constraints; prompt syntax; verification
Language	EN (English)
Affiliation	Directorate of Secondary Education of Dodecanese - Greece
Contributor	STIAEM Transnational Scientific Board (peer review, Rhodes validation protocol)
Media Format	Text; Infographics
Genre	Training Manual; Educational Guide
URL	https://www.stiaemproject.eu/?oer_download=OER-4.1.1
Citation	Directorate of Secondary Education of Dodecanese. (2026). *Syntactic Structure of Effective Prompts: Role, Context, Task, and Constraints* [Educational guide]. Slow Tech Innovation: AI, Ethics, and New Teaching Methods (STIAEM), 2025-1-IT02-KA220-SCH-000365213.
References	Cosgrove, J., & Cachia, R. (2025). DigComp 3.0: European digital competence framework (Fifth edition). Publications Office of the European Union. https://data.europa.eu/doi/10.2760/0001149 Liu, P., Yuan, W., Fu, J., Jiang, Z., Hayashi, H., & Neubig, G. (2021). Pre-train, prompt, and predict: A systematic survey of prompting methods in natural language processing. arXiv. https://arxiv.org/abs/2107.13586 Miao, F., & Cukurova, M. (2024). AI competency framework for teachers. UNESCO. https://doi.org/10.54675/ZJTE2084 Sahoo, P., Singh, A. K., Saha, S., Jain, V., Mondal, S., & Chadha, A. (2024). A systematic survey of prompt engineering in large language models: Techniques and applications. arXiv. https://arxiv.org/abs/2402.07927 Schulhoff, S., Ilie, M., Balepur, N., Kahadze, K., Liu, A., Si, C., Li, Y., Gupta, A., Han, H., Schulhoff, S., Dulepet, P. S., Vidyadhara, S., Kieley, J., Li, A., Wang, X., ... & Resnik, P. (2024). The prompt report: A systematic survey of prompt engineering techniques. arXiv. https://arxiv.org/abs/2406.06608 White, J., Fu, Q., Hays, S., Sandborn, M., Olea, C., Gilbert, H., Elnashar, A., Spencer-Smith, J., & Schmidt, D. C. (2023). A prompt pattern catalog to enhance prompt engineering with ChatGPT. arXiv. https://arxiv.org/abs/2302.11382
Educational Level	Secondary School
Associated Module / MOOC Video Lesson	Module 4 - Prompt Engineering for Inclusive Education / Video 4.1 - Anatomy of the Structured Prompt

Learning Objectives	Recognise the four pillars of the structured prompt - role, context, task and constraints - and the specific function of each; turn a generic request into a complete prompt, verifying that none of the four pillars remains implicit; reflect critically on the role, which orients the machine's discourse but does not certify the truth of what it produces.
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