FlowWrite 架构简述与技术报告

田照涛. Author*
贵州轻工职业大学, 贵州, 中国

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FlowWrite 是一款专注于 AI 辅助写作的软件，专门面向高质量长篇写作的场景。软件提供蓝图式工作流编排和多种工作流控件（环状运行、冻结等）、外部 Restful API 接口、内置 agent 和官方 agent skill。本文将从产品愿景、技术选型、交互设计、软件架构和具体用例等方面介绍这款软件。软件源代码在 Github 开源 FlowWrite

一、 引言

受限于如今的模型性能，AI 辅助写作很难找到一站式的解决方案，为此，我希望提供一种高度定制化且足够现代的范式来回答这个问题。

当以 chatgpt 为首的，基于 LLM 的 chat-ai-app 刚刚进入人们视野的时候，第一个被广泛关注的概念是**提示词工程**[1]，而在 2025 年初到 2026 年初的 AI 编程大爆发和 agent 大爆发中[2]，另一个在幕后扮演重要角色的概念是**上下文工程**。这两个概念几乎涵盖了当下 LLM 应用的所有注意事项，而对于 AI 辅助写作这个领域，FlowWrite 提供的范式同样围绕这两个概念展开。

[1]

A. 问题

众所周知，今天主流 LLM 的上下文窗口十分有限，即使有足够的窗口长度，模型的注意力也有限。截至 2026 年 2 月，我们依然不能说所谓“上下文腐化”[2] 的现象已经不存在了，作为侧面的佐证，上下文管理器仍然是各 AI 编程工具的重要组件。

```
class FlowWriteDB extends Dexie {
  workflows!: Table<WorkflowRecord>;
  settings!: Table<SettingsRecord>;

  constructor() {
    super('FlowWriteDB');

    this.version(1).stores({
      workflows: 'id, name, updatedAt',
      settings: 'key'
    });
  }
}
```

* Contact author: isirin1131@outlook.com

[1] reddit 的 PromptEngineering 板块创建于 2021 年 2 月 26 日
[2] Anthropic 于 2024 年 11 月 25 日开源了他们的 MCP 协议，可以看作是 agent 时代开始的里程碑事件

This is a template for submission of manuscripts to Physical Review Accelerators and Beams (PRAB) using the great, modern and **blazingly fast** typesetting system Typst Equations can be typeset inline like $f_{\mathrm{a}(x)}$, and in display mode:

$$\nabla \times E = -\frac{\partial B}{\partial t}$$

$$\oint_{\partial A} E \,\mathrm{d}s = -\iint_{A} \frac{\partial B}{\partial t} \,\mathrm{d}A$$

By adding a label

$$e^{\mathrm{i}\,\pi} + 1 = 0 \tag{1}$$

they can be referenced as in Eq. (1). The same works for Fig. 1. Figure 1 comes before Figs. 2 and 3. Referring to section II A or the data in table I is also possible.

二、 SECTION

A. Subsection

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magnam aliquam quaerat voluptatem. Ut enim aeque doleamus animo, cum corpore dolemus, fieri tamen

FIG. 1 A placeholder figure with a linear gradient [3]

FIG. 2 A column spanning figure. Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magnam aliquam quaerat voluptatem. Ut enim aeque doleamus.

TABLE I. Parameters

Ion	Carbon $^{12}C^{6+}$
Frequency	$f_a = 1$~GHz
Bandwidth	$\Delta f_1 = 0.01 f_a$

permagna accessio potest, si aliquod aeternum et infinitum impendere malum nobis opinemur. Quod idem licet transferre in voluptatem, ut postea variari voluptas distinguique possit, augeri amplificarique non possit. At etiam Athenis, ut e patre audiebam facete et urbane Stoicos irridente, statua est in quo a nobis philosophia defensa et collaudata est, cum id, quod maxime placeat, facere possimus, omnis voluptas assumenda est, omnis dolor repellendus. Temporibus autem quibusdam et.

壁垒击穿效应。**由于 AI 编码的应用**，IT 行业的人才更替周期已经剧变，好在行业整体需求量暂 时并未增长过多，否则我将在五年内面临比现在和以往严重的多的学历歧视。实际上绞肉机已经开始了，好比地表空气的整体成分发生了不算微小的突变，它不会影响你今天的生活，却会改变千年后人类整体的生物特征。另一个会快速迎来剧变的行业是教育，我不知道其他行业的价值如何，但在此次生成式 AI 浪潮下，这两个行业的变化意义是显著的。熵增开始了

B. Subsection

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magnam aliquam quaerat voluptatem. Ut enim aeque doleamus animo, cum corpore dolemus, fieri tamen permagna accessio potest, si aliquod aeternum et infinitum impendere malum nobis opinemur. Quod idem licet transferre in voluptatem, ut postea variari voluptas distinguique possit, augeri amplificarique non possit. At etiam Athenis, ut e patre audiebam facete et urbane Stoicos irridente, statua est in quo a nobis philosophia defensa et collaudata est, cum id, quod maxime placeat, facere possimus, omnis voluptas assumenda est, omnis dolor repellendus. Temporibus autem quibusdam et.

三、 PACKAGES

The Typst ecosystem features a broad range of community driven packages to make writing papers with Typst even more convenient. These can be found by exploring the Typst Universe at https://typst.app/universe.

A. Physical quantities

The **zero** package helps typesetting numbers and scientific quantities.

Using the custom show-rule above, quantities are nicely formatted including thin spaces between the number and unit like in 1.2 µm, digit grouping for $x = 0.123\,456\,78$ m, uncertain quantities like $f_{\text{rev}} = (325.2 \pm 0.1)$ kHz as well as tolerances such as $h = (8.3^{+0.1}_{-0.2}) \cdot 10^{-2}$ mm. For details refer to the documentation at https://typst.app/universe/package/zero.

B. Plots

With the **lilaq** package, plots can be create directly in the document, so you can skip the additional plotting step in your workflow while ensuring that all plot elements are properly sized. Fig. 3 gives an example and the full documentation is available at https://lilaq.org.

C. Abbreviations

The **glossy** package helps managing abbreviations, automatically using the long form on first use of American Physical Society (APS) and the short form on subsequent uses of APS. But it can do much more: A radio frequency (RF) device shows how capitalization is applied on sentence start, and in addition the article (a/an) is managed automatically, since it differs between the first and subsequent use of an RF device. In addition, explicit forms are supported as in radio frequency, RF and radio frequency (RF), and plural forms can be accessed like in

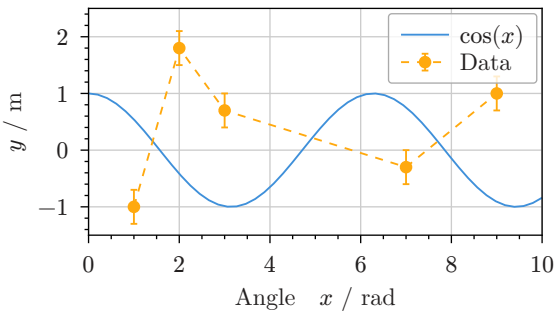

FIG. 3 A plot create with Lilaq.

RFs. For more details, refer to https://typst.app/universe/package/glossy.

四、 总结

致谢

感谢我的家人、老师和朋友

[1] A. L. Zhang, T. Kraska, 和 O. Khattab, *Recursive Language Models*, https://arxiv.org/abs/2512.24601.

[2] K. Hong, A. Troynikov, 和 J. Huber, Context Rot: How Increasing Input Tokens Impacts LLM Performance, technical report, 2025, https://research.trychroma.com/context-rot.

[3] J. on Software, The Law of Leaky Abstractions, (2000).