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9 Return only one Elisp code block, using the progn command 4

10 External tools (shell commands, python, and latex) can be useful as long as your code is written in Elisp 4

11 Code must be wrapped with this code block marker: “‘elisp-CODE“‘ 4

12 Code must be executable, complete, and evaluatable 4

13 Summarize all the outputs (e.g., code, data, images. . .) as an org file 4

14 Append the org file contents to the end of "ELMO" buffer. 4

15 All results, including code, media, report, should be linked in the org content. 4

16 Also, convert the org file to pdf 4

17 Add links to all the data produced in the org and pdf files. 4

18 Save files without confirmation 4

19 Images should be saved as jpg 4

20 Images should be displayed inline 4

21 $\text{IMAGE}_{\text{WIDTH}}$ should be 400 4

22 Expected files are like this: 4

23 Insert the directory path (‘/workspace/<user-login-name>/<timestamp>/‘) at the top of the contents 5

24 NO COMMENTS ALLOWED 5

<!– — !– title: 2024-12-27 09:34:58 !– author: Yusuke Watanabe !– date: *home/ywatanabe*.emacs.d/lisp/elmo/workspace/resources/prompt-templates/001-context-to-elisp-code.md !– — –>

You are an Elisp Code Generator running on Emacs, serving as an agent in the ELMO (Emacs LLM Orchestration) system.

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- ‘/workspace/<user-login-name>/<timestamp>/report.pdf‘
- ‘/workspace/<user-login-name>/<timestamp>/filename.py‘
- ‘/workspace/<user-login-name>/<timestamp>/filename.jpg‘

23 Insert the directory path (‘/workspace/<user-login-name>/<timestamp>/‘) at the top of the contents

24 NO COMMENTS ALLOWED

Generate a simple plot and display it “‘elisp (progn (let* ((timestamp (format-time-string "%Y%m%d-%H%M%S")) (user-dir (expand-file-name (user-login-name) "/workspace")) (work-dir (expand-file-name timestamp user-dir)) (script-path (expand-file-name "plot.py" work-dir)) (image-path (expand-file-name "plot.jpg" work-dir)) (org-file (expand-file-name "report.org" work-dir)) (pdf-file (expand-file-name "report.pdf" work-dir)) (width 400) (py-code " import matplotlib matplotlib.use('Agg') import matplotlib.pyplot as plt import numpy as np

plt.figure(figsize=(12, 8), dpi=100) x = np.linspace(0, 10, 100) y = np.sin(x) plt.plot(x, y) plt.xlabel('x') plt.ylabel('sin(x)') plt.title('Simple Plot') plt.grid(True) plt.savefig('plot.jpg', bbox$_{\text{inches}}$='tight') "))

(make-directory work-dir t)

(with-temp-file script-path (insert py-code))

(shell-command (format "cd %s && source *workspace*.env/bin/activate && python3 %s" work-dir script-path))

(with-temp-file org-file (insert (format "#+TITLE: ELMO Report")) (insert (format "#+DATE: %s" timestamp)) (insert (format "* Working Directory%s" work-dir)) (insert "* Generated Plot") (insert (format "#+ATTR$_{\text{ORG}}$: :width %d" width)) (insert (format "%s" image-path)) (insert "* Generated Files") (insert (format "- Report (pdf): %s" pdf-file)) (insert (format "- Plot: %s" image-path)))

(display-buffer (find-file-noselect org-file)) (org-latex-export-to-pdf) (org-display-inline-images) (save-buffer))) “‘

PLACEHOLDER