Homework Sample Template

Michael Laufer testing

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LaTEX Practice

Dependencies

1. linux package aspell-en

2. emacs packages: flyspell, cdlatex, auctex, texlive?

3. Make sure that preamble.tex is (setq org-src-fontify-natively t)in the same fo(setq org-latex-listings 'minted org-latex-packages-alist '(("" "minted")) org-latex-pdf-process '("pdflatex -shell-escape -interaction nonstopmode -output-directory %o %f" "pdflatex -shell-escape -interaction nonstopmode -output-directory %o %f"))lder as the org document

Q1. Let's try some stuff out

- To see latex snippets use ctrl-(c x l). cancel with ctrl-(c c)

- How about some fractions?

$$\frac{1}{2} + 7 = 7.5$$

- Let's try the continuity equation

$$\frac{\partial \rho}{\partial t} + \nabla \cdot \left(\frac{1}{2} \rho u \right)$$

Pure Latex seems to work as well:

$$\frac{1}{2} + 6x + x^2 \tag{1}$$

cdlatex mode allows for auto-completion:

1. using fr <tab> creates fraction template

2. using ˆ raises to a power. x^2

3. equ <tab> creates numbered equation template

4. tilda key opens menu of shortcuts, so tilda d creates δ. Tilda-tilda d creates ∂.

Workflow

- words in org mode

- math in latex with cdlatex

- export as pdf with M-x org-latex-export-to-pdf RET

ToDo list: [0/4]

- ☐ Learn how to insert figures with descriptions

- ☐ learn how to use bibliography

- ☐ learn how to insert code snippets

- ☐ Learn how to create figure list,

Q2. Let's try out some code snippets:

- Code snippet created with <s <TAB>

- evaluate code snippet with

```python
testlist = []
for i in range(10):
    if i > 5:
        testlist.append(i)
return(testlist)
```