LaTeX-Docker

my pandoc $\mathrm{\LaTeX}$ environment.
includes below two Dockerfiles.

1. r4ai/latex
   - based on paperist/texlive-ja
   - includes **luatex, bxlatex ...**
   - amd64 & arm64 support. (M1 support)
2. r4ai/pandoc
   - based on r4ai/latex.
   - includes **pandoc, pandoc-crossref** ...
   - **not arm64** support. only support amd64.
     (because pandoc-crossref couldn't build with arm64 debian)

how to build.

r4ai/latex (texlive)

```
docker build -f docker/latex/Dockerfile -t r4ai/latex:latest .
```

r4ai/pandoc (pandoc)

```
docker build -f docker/pandoc/Dockerfile -t r4ai/pandoc:latest .
```

how to use.

r4ai/latex

compile .tex and generate pdf.

```
docker run --rm -it \
    --volume $PWD:/workdir r4ai/latex:latest \
    sh -c 'ptex2pdf -l -ot -kanji=utf8 -synctex=1 -
        interaction=nonstopmode -halt-on-error -file-line-error
        main.tex'
```

r4ai/pandoc

Generate PDF from markdown by LaTeX

```
docker run --rm \
    --volume "$(pwd):/build" \
    --user $(id -u):$(id -g) \
    r4ai/pandoc:latest input.md -o output.pdf \
        --pdf-engine=xelatex \
        -V documentclass=bxjsarticle \
        -V classoption=pandoc \
        -M listings --listings \
        -H /settings/header.tex \
        -H /settings/deeplists.tex \
        --metadata-file /settings/metadata.yml \
        -F /usr/lib/pandoc-crossref
```

Generate PDF from markdown by html5.

```
docker run --rm \
    --volume "$(pwd):/build" \
    --user $(id -u):$(id -g) \
    r4ai/pandoc:latest input.md -o output.pdf \
        -t html5 \
        -F /usr/lib/pandoc-crossref
```

how to debug.

r4ai/pandoc

open bash.

```
docker run --rm -it \
      --volume "$(pwd):/build" \
      --entrypoint /bin/bash \
      r4ai/pandoc:latest
```