

```
# Makefile front-end for rust dev works.
VERSION      = 1.0
RELEASE      = 2
DATE         = $(shell date)
NEWRELEASE   = $(shell echo $$(( $(RELEASE) + 1 )) )
PROJECT_NAME = hellocrud
TOPDIR       = $(shell pwd)
MANPAGES     =
MACPATH      = /usr/local/bin
A2PS2S1C     = ${MACPATH}/enscript -H1 --highlight-bar-gray=08 -fCourier8 -Ebash --non-printable-format=space
A2PSTMP      = ./tmp
DOCS         = ./docs

SHELL := /bin/bash

.PHONY: all commit tests examples pdf doc docs sqld cmkrest cmd-demo cmk-agent-ctl cmkc

all: help
#https://stackoverflow.com/questions/6273608/how-to-pass-argument-to-makefile-from-command-line
args = 'arg="$(filter-out $@,$(MAKECMDGOALS))" && echo ${arg:-${1}}'
%:
    @:

versionfile:
    echo "version:" $(VERSION) > etc/version
    echo "release:" $(RELEASE) >> etc/version
    echo "source build date:" $(DATE) >> etc/version

manpage:
    for manpage in $(MANPAGES); do (pod2man --center=$$manpage --release="" ./docs/$$manpage.pod > ./docs/$$manpage.1); done

clean: cleantmp
    -rm -rf *~
    -rm -rf docs/*.1
    -find . -type f -name *~ -exec rm -f {} \;
    -find . -type f -name *.ps -exec rm -f {} \;
    -find . -type d -name target -exec rm -rf {} \;

clean_hard:
    -rm -rf $(shell $(PYTHON) -c "from distutils.sysconfig import get_python_lib; print get_python_lib()")/

adagios

clean_hardest: clean_rpms

#Ref: https://stackoverflow.com/questions/1490949/how-to-write-loop-in-a-makefile
# Adding *.rs need to be conveted into pdf
SRC1= README.md Makefile Cargo.toml hellocrud-dir-layout.txt
SRC2= src/classes.rs src/functions.rs src/hello.rs src/main.rs src/test.rs
SRC3=

pdfdir:
    mkdir -p ${A2PSTMP}/src $(DOCS)/src
cleantmp:
    rm -f ${A2PSTMP}/*.ps ${A2PSTMP}/*.pdf
.ps: cleantmp
    $(foreach var, $(SRC1), ${A2PS2S1C} --output=${A2PSTMP}/${(var)}.ps $(var) ;)
    $(foreach var, $(SRC2), ${A2PS2S1C} --output=${A2PSTMP}/${(var)}.ps $(var) ;)
    $(foreach var, $(SRC3), ${A2PS2S1C} --output=${A2PSTMP}/${(var)}.ps $(var) ;)
    touch .ps
# No VM needed since MacOS is Unix based.
macpdf: .pdf
    touch .pdf
    rm -f ${DOCS}/*.pdf
    find ${A2PSTMP}/ -type f -name *.pdf -exec cp {} ${DOCS}/ \;
    ls -lrt ${DOCS}/*.pdf

allpdf: .pdf
    touch .pdf
    rm -f ${A2PSTMP}/*.pdf
    find docs -type f -name *.pdf -exec cp {} ${A2PSTMP}/ \;
    rm -f /mnt/hgfs/vmware/*.pdf
    cp -f ${A2PSTMP}/*.pdf /mnt/hgfs/vmware/
    ls -lrt /mnt/hgfs/vmware/*.pdf

pdf: .pdf
    touch .pdf
.pdf: .ps
    $(foreach var, $(SRC1), (cd ${A2PSTMP};ps2pdf $(var).ps $(var).pdf);)
    $(foreach var, $(SRC2), (cd ${A2PSTMP};ps2pdf $(var).ps $(var).pdf);)
    $(foreach var, $(SRC3), (cd ${A2PSTMP};ps2pdf $(var).ps $(var).pdf);)
    rsync -azpv ${A2PSTMP}/* ${DOCS}/
    find ${DOCS}/src/ -type f -name "*.ps" -exec rm -f {} \;
    touch .pdf
```

```
tree: clean
    tree -L 4 > ${PROJECT_NAME}-dir-layout.txt

.PHONY: tests test2
tests:
    (cd hello && cargo test)

# enable makefile to accept argument after command
#https://stackoverflow.com/questions/6273608/how-to-pass-argument-to-makefile-from-command-line

args = `arg="$(filter-out $@,$(MAKECMDGOALS))" && echo $$arg:~${1}}`
%:
    @:

status:
    git status

commit:
    git commit -am "$(call args, Automated commit message without details, Please read the git diff)" && g
it push
pull:
    git pull

install:
    cargo install --force --path .
    ls -lrt ${HOME}/.cargo/bin

cmk-agent-ctl:
    (cd cmk-agent-ctl && cargo install --force --path .)

cmd-demo:
    (cd cmd-demo && ./cmd-install.sh)

cmkc:
    (cd cmkc && cargo install --force --path .)

cmkrest:
    (cd cmkrest && cargo install --force --path .)

install2:
#    cd sqld/sqld && cargo install --force --path .
#    cd sqld/sqld && cargo install --force --path .
    ls -lrt ${HOME}/.cargo/bin

installcmk:
    cd cmk && cargo install --force --path .
    ls -lrt ${HOME}/.cargo/bin | tail -10

installsqld:
    cd sqld && make install
    ls -lrt ${HOME}/.cargo/bin | tail -10

clip:
    cargo clippy

build:
    cargo build && find target/debug -maxdepth 1 -type f -perm /755 | egrep -v "\.d"

sqld:
    cd sqld && cargo build && find target/debug -maxdepth 1 -type f -perm /755 | egrep -v "\.d"
    cd sqld && cp -p target/debug/sqld target/debug/bottomless-cli ${HOME}/.cargo/bin
    ls -lrt ${HOME}/.cargo/bin

format:
    cargo fmt -v

examples:
    cargo build --examples && ls -lrt target/debug/examples/ | egrep -v "\.d"

doc:
    rustdoc README.md --crate-name docs
    cargo doc
    ls target/doc doc
#    rustdoc src/bin/cmdbc.rs --crate-name docs

saas_pg:
    LOCO_APP_NAME=saas_pg LOCO_TEMPLATE=saas loco new -p ./

lightweight_service:
    LOCO_APP_NAME=lightweight_service LOCO_TEMPLATE=lightweight-service loco new

help:
    @echo "Usage: make <target> <argument>"
    @echo
    @echo "Available targets are:"
    @echo "  pdf          Generate selected files in pdf and copy into ./docs"
    @echo "  allpdf       Generate selected files in pdf and copy into vmware hgfs"
    @echo "  test        build and test run"
    @echo "  format      run cargo fmt to format the rust code"
    @echo "  build       call up cargo build"
    @echo "  examples    build all test programs in examples dir"
```

```
@echo " install                install the binary in --path ."  
@echo " help                  Showing this help "  
@echo " clean                   clean all artifact files"  
@echo " commit {"my message"}  ie, git commit and push with defalut message"  
@echo " status                  ie, git status"  
@echo " pull                     ie, git pull"  
@echo ""
```