02: How to compile

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TUG18 knitr workshop; July 2018[*]

1 Using Rstudio

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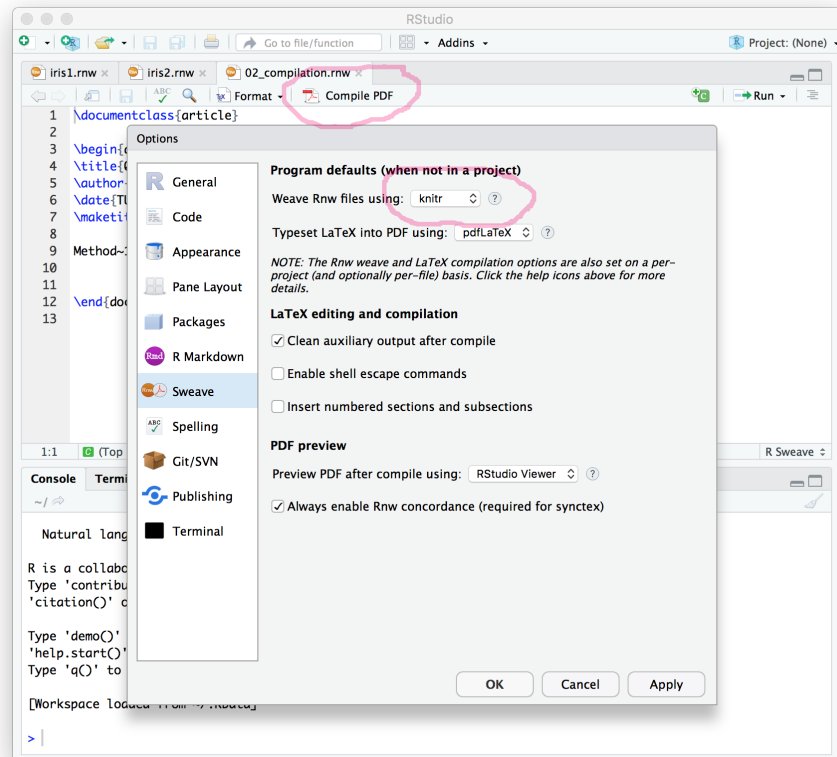
2 Using Makefiles

```
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RNW = \
        01_intro.rnw \
        02_compilation.rnw \
        03_setup.rnw \
        04_tidy.rnw \
        05_machine_learning.rnw \
        06_tikz.rnw


TEXDERIVED = ${RNW:%.rnw=%.tex}

TEX = $(TEXDERIVED)



PDF = ${TEX:%.tex=%.pdf}


all: ${PDF}


%.pdf:  %.tex
        pdflatex $*
        - bibtex $*
        pdflatex $*
        - while (grep -q '^LaTeX Warning: Label(s) may have changed' $*.log) \
        do  pdflatex $*; done


%.tex:  %.rnw
        Rscript -e "library('knitr');_knit('$<')"


clean:
        $(RM) *.aux *.bbl *.dvi *.log *.out *.toc *.blg *.lof *.lot \
        *.eps  *.ps *.lol *.tex *.synctex.gz *.zip *-tikzDictionary
        $(RM) -r figure ??_figures *~
```

```
distclean: clean
        rm -f ${PDF}

zip:    all clean
        cd ..; \
        zip -r  knitr-workshop.zip  workshop \
        -x '*~' -x '*.tgz' -x '*.zip' -x '*/CVS' -x '*/CVS/*'; \
        mv knitr-workshop.zip  workshop
```