

AGILE 2019 PhD School Proceedings

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This document provides some scripts and documentation of manual steps for generating the AGILE 2019 PhD School Proceedings. They use a PDF template of CEUR-WS. For some additional steps to submit these proceedings to CEUR-WS see `ceur.md`.

Get the repos

```
library("here")
```

```
## here() starts at /home/daniel/git/agile_2019_phd_school_proceedings
```

```
article_repos <- here::here("article_repos")  
article_pdfs <- here::here("articles")
```

To update a specific article, simply delete the corresponding directory `article_repos`

```
# read from repos.txt  
library("tibble")  
suppressPackageStartupMessages(library("dplyr"))  
library("stringr")  
library("rmarkdown")  
  
articles <- as_tibble(read.csv2(here::here("repos.txt"), comment.char = "#",  
                              stringsAsFactors = FALSE)) %>%  
  dplyr::mutate(id = stringr::str_replace_all(.$author, "[;\\.\\s]", " ") %>%  
    stringr::str_replace_all(  
      c('ü' = 'ue', 'ï' = 'ie', 'ë' = 'ee', 'ä' = 'ae',  
        'ö' = 'oe', 'š' = 's', 'í' = 'i', 'ř' = 'r')) %>%  
    stringr::str_squish() %>%  
    stringr::str_replace_all(" ", "_") %>%  
  dplyr::mutate(path = file.path(article_repos, .$id)) %>%  
  arrange(id)  
  
# clone repos  
suppressPackageStartupMessages(library("gert"))  
  
for (i in 1:nrow(articles)) {  
  repo <- articles[i,]  
  path <- repo$path  
  if(dir.exists(path)) {
```

```

    cat("Skipping existing directory ", rmarkdown::relative_to(dir = here(), path), "\n")
    next()
}

dir.create(path, showWarnings = FALSE)
cat("Cloning for", repo$author, "from", repo$work_repo, "to", path, "\n")
gert::git_clone(url = paste0("https://github.com/", repo$work_repo), path = path)
}

```

```

## Cloning for Alexander Kmoch, Evelyn Uemaa, Daniel Nüst from agilephdschool2019/agile_2019_summary t
## Skipping existing directory article_repos/Bruno_Montibeller
## Skipping existing directory article_repos/Daiga_Parsova
## Skipping existing directory article_repos/Ditsuhi_Iskandaryan
## Skipping existing directory article_repos/Ewa_Grabska
## Skipping existing directory article_repos/Georgios_Leventis
## Skipping existing directory article_repos/Jakub_Konicek
## Skipping existing directory article_repos/Jennie_Gray
## Skipping existing directory article_repos/Marcin_Szwagrzyk
## Skipping existing directory article_repos/Marketa_Beitlova
## Skipping existing directory article_repos/Moris_Zahtila
## Skipping existing directory article_repos/Najmeh_Mozaffaree_Pour
## Skipping existing directory article_repos/Radek_Barvir
## Skipping existing directory article_repos/Sansar_Raj_Meena
## Skipping existing directory article_repos/Yannis_Paraskevopoulos

```

Create a PDF for each repo

We use a template based on CEUR-WS's two-column format. **Note:** The proceedings footer is *hardcoded* in the file `template/ceurticles/inst/rmarkdown/templates/twocolpceurws_article/skeleton/copyright.tex`. To include updates in the footer, the packages is always removed as part of the workflow. For changes in the footer to trickle down into the PDFs, the article repo(s) must be removed.

```
remove.packages("ceurticles")
```

```

## Removing package from '/home/daniel/R/x86_64-pc-linux-gnu-library/3.6'
## (as 'lib' is unspecified)

```

```
remotes::install_local("template/ceurticles", force = TRUE, dependencies = FALSE)
```

```

##      checking for file '/tmp/RtmpA3lqM2/file65b6333922ec/ceurticles/DESCRIPTION' ... v  checking for
## - preparing 'ceurticles':
##      checking DESCRIPTION meta-information ... v  checking DESCRIPTION meta-information
##      - checking for LF line-endings in source and make files and shell scripts
## - checking for empty or unneeded directories
## - building 'ceurticles_0.1.9001.tar.gz'
##
##

```

```

## Installing package into '/home/daniel/R/x86_64-pc-linux-gnu-library/3.6'
## (as 'lib' is unspecified)

```

1. Identify “main file”
2. For each article
3. Copy template files using the template in the R package `template/ceurticles` to the paper directory
4. Render document

```
rmd_file <- function(p) {
  candidates <- list.files(p, pattern = "\\..Rmd$", ignore.case = TRUE)
  if(length(candidates) > 1) {
    warning("Found more than one R Markdown file in ", p, "\n\t",
            toString(candidates), "\n\tUsing: ", candidates[[1]], "\n\n")
    return(candidates[[1]])
  }
  if(length(candidates) < 1) {
    warning("Found NO R Markdown file in ", p, "\n\n")
    return(NA)
  }
  else {
    return(candidates)
  }
}

articles$rmd_file <- unlist(sapply(articles %>% arrange(id) %>% .$path, rmd_file))
```

```
## Warning in FUN(X[[i]], ...): Found more than one R Markdown file in /home/daniel/git/agile_2019_phd_s
## AGILEreport.Rmd, notes.Rmd
## Using: AGILEreport.Rmd

## Warning in FUN(X[[i]], ...): Found more than one R Markdown file in /home/daniel/git/agile_2019_phd_s
## Meena.Rmd, notes.Rmd
## Using: Meena.Rmd
```

```
library("kableExtra")
```

```
##
## Attaching package: 'kableExtra'

## The following object is masked from 'package:dplyr':
##
## group_rows
```

```
articles %>%
  dplyr::mutate(path = sapply(articles$path,
                             rmarkdown::relative_to, dir = here(),
                             USE.NAMES = FALSE)) %>%
  knitr::kable(format = "latex") %>%
  kableExtra::kable_styling(latex_options="scale_down")
```

author	work_repo	other_repo	id	path	rmd_file
Alexander Knoch, Evelyn Uemasa, Daniel Nüst	agilephdschool2019/agile_2019_summary	allixender/agile_2019_summary	Alexander Knoch, Evelyn Uemasa, Daniel Nüst	article_repos/Alexander Knoch, Evelyn Uemasa, Daniel Nüst	index.Rmd
Bruno Monthobler	agilephdschool2019/bremonmonthobler_agile_2019	bremonmonthobler/agile_2019	Bruno Monthobler	article_repos/Bruno Monthobler	notes_agile_2019.Rmd
Daiga Pasova	agilephdschool2019/daigapasova_AGILE	daigapasova/AGILE	Daiga Pasova	article_repos/Daiga Pasova	notes.rmd
Ditsuki Iskandaryan	agilephdschool2019/Ditsuki_agile2019	Ditsuki/agile2019	Ditsuki Iskandaryan	article_repos/Ditsuki Iskandaryan	Summary.Rmd
Ewa Grabka	agilephdschool2019/egrabka_tartu_project	egrabka/tartu_project	Ewa Grabka	article_repos/Ewa Grabka	project.Rmd
Georgios Levantis	agilephdschool2019/gxorminis_agile_2019	gxorminis/agile_2019_test	Georgios Levantis	article_repos/Georgios Levantis	notes.Rmd
Jakub Koniecz	agilephdschool2019/konijad1_agile	konijad1/agile_test	Jakub Koniecz	article_repos/Jakub Koniecz	koniecz.Rmd
Jennie Gray	agilephdschool2019/jgray1923_AGILE_2019	jgray1923/AGILE_2019_test	Jennie Gray	article_repos/Jennie Gray	AGILEreport.Rmd
Marcin Swagryk	agilephdschool2019/marcinswagryk_AGILE_school	marcinswagryk/AGILE_school	Marcin Swagryk	article_repos/Marcin Swagryk	notatka.Rmd
Marketa Berilova	agilephdschool2019/repesdnet_agile_2019	repesdnet/agile_2019	Marketa Berilova	article_repos/Marketa Berilova	notete.Rmd
Moris Zahatila	agilephdschool2019/mzahatila_agile_phd_school	mzahatila/agile_phd_school	Moris Zahatila	article_repos/Moris Zahatila	notes.Rmd
Najmeh Mozallaree Pour	agilephdschool2019/nmp1987_agile_2019	nmp1987/agile_2019_test	Najmeh Mozallaree Pour	article_repos/Najmeh Mozallaree Pour	najmeh.Rmd
Radek Barvir	agilephdschool2019/radekbarvir_agile_2019	radekbarvir/agile_2019_test	Radek Barvir	article_repos/Radek Barvir	radek.Rmd
Sansar Raj Meena	agilephdschool2019/sansarmeena_Agile_2019_phd	sansarmeena/Agile_2019_phd_Meena	Sansar Raj Meena	article_repos/Sansar Raj Meena	Meena.Rmd
Yannis Paraskevopoulos	agilephdschool2019/yannis-p_agile_2019	yannis-p/agile_2019_test	Yannis Paraskevopoulos	article_repos/Yannis Paraskevopoulos	notes_pre_fr.rmd

```

library("rmarkdown")
library("rticles")
library("ceurticles")

dir.create(article_pdfs, showWarnings = FALSE)

template_dir <- tempdir()
if (!file.exists(file.path(template_dir, "article.Rmd")))
  rmarkdown::draft(file.path(template_dir, "article.Rmd"),
    template = "twocolpceurws_article", package = "ceurticles",
    edit = FALSE, create_dir = FALSE)

copy_article_files <- function(article) {
  file.copy(file.path(template_dir, c("copyright.tex",
    "twocolpceurws.sty",
    "samplebib.bib")),
    article$path, overwrite = FALSE)
}

#copy_article_files(article = articles[1,])

for (i in 1:nrow(articles)) {
  copy_article_files(article = articles[i,])
}

```

Now manually make sure that the R Markdown files compile.

Here is a template header with the required fields. Note that the bibliography, even if no references are used, must be set. The authors' affiliation, orcid and email are optional.

```

---
title: "AGILE PhD School working notes"
author:
  - name: Alexander Kmoch
    affiliation: University of Tartu, Estonia
    email: alexander.kmoch@ut.ee
    orcid: 0000-0003-4386-4450
  - name: Evelyn Uemaa
    affiliation: University of Tartu, Estonia
    orcid: 0000-0002-0782-6740
abstract: |
  TODO abstract here
output:
  ceurticles::twocolpceurws_article
bibliography: samplebib.bib
---

```

```

render_article_file <- function(article) {
  output_file <- file.path(article_pdfs, paste0(article$id, ".pdf"))
  cat("Rendering article", file.path(article$path, article$rmd_file),
    "to", output_file, "\n")

  rmarkdown::render(file.path(article$path, article$rmd_file),
    output_file = output_file)
}

```

```

}

#render_article_file(articles[14,])

for (i in 1:nrow(articles)) {
  render_article_file(article = articles[i,])
}

##
##
## processing file: index.Rmd

## output file: index.knit.md

##
## Output created: articles/Alexander_Kmoch_Evelyn_Uuemaa_Daniel_Nuest.pdf

##
##
## processing file: notes_agile_2019.Rmd

## output file: notes_agile_2019.knit.md

##
## Output created: articles/Bruno_Montibeller.pdf

##
##
## processing file: notes.rmd

## output file: notes.knit.md

##
## Output created: articles/Daiga_Parsova.pdf

##
##
## processing file: Summary.Rmd

## output file: Summary.knit.md

##
## Output created: articles/Ditsuhi_Iskandaryan.pdf

##
##
## processing file: project.Rmd

## output file: project.knit.md

```

```

##
## Output created: articles/Ewa_Grabska.pdf

##
##
## processing file: notes.Rmd

## output file: notes.knit.md

##
## Output created: articles/Georgios_Leventis.pdf

##
##
## processing file: konicek.Rmd

## output file: konicek.knit.md

##
## Output created: articles/Jakub_Konicek.pdf

##
##
## processing file: AGILEREport.Rmd

## output file: AGILEREport.knit.md

##
## Output created: articles/Jennie_Gray.pdf

##
##
## processing file: notatka.Rmd

## output file: notatka.knit.md

## Warning: Package movie15 Warning: @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@
## (movie15)                @@ Package `movie15' is obsolete and @@
## (movie15)                @@ superseded by `media9'.           @@
## (movie15)                @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@.

##
## Output created: articles/Marcin_Szwagrzyk.pdf

##
##
## processing file: notetex.Rmd

## output file: notetex.knit.md

```

```
##
## Output created: articles/Marketa_Beitlova.pdf

##
##
## processing file: notes.Rmd

## output file: notes.knit.md

##
## Output created: articles/Moris_Zahtila.pdf

##
##
## processing file: najmeh.Rmd

## output file: najmeh.knit.md

##
## Output created: articles/Najmeh_Mozaffaree_Pour.pdf

##
##
## processing file: radek.Rmd

## output file: radek.knit.md

##
## Output created: articles/Radek_Barvir.pdf

##
##
## processing file: Meena.Rmd

## output file: Meena.knit.md

##
## Output created: articles/Sansar_Raj_Meena.pdf

##
##
## processing file: notes_pre_fv.rmd

## output file: notes_pre_fv.knit.md

##
## Output created: articles/Yannis_Paraskevopoulos.pdf
```

```
list.files(article_pdfs)
```

```
## [1] "Alexander_Kmoch_Evelyn_Uuemaa_Daniel_Nuest.pdf"
## [2] "Bruno_Montibeller.pdf"
## [3] "Daiga_Parsova.pdf"
## [4] "Ditsuhi_Iskandaryan.pdf"
## [5] "Ewa_Grabska.pdf"
## [6] "Georgios_Leventis.pdf"
## [7] "Jakub_Konicek.pdf"
## [8] "Jennie_Gray.pdf"
## [9] "Marcin_Szwagrzyk.pdf"
## [10] "Marketa_Beitlova.pdf"
## [11] "Moris_Zahtila.pdf"
## [12] "Najmeh_Mozaffaree_Pour.pdf"
## [13] "Radek_Barvir.pdf"
## [14] "Sansar_Raj_Meena.pdf"
## [15] "Yannis_Paraskevopoulos.pdf"
```

Publish proceedings

Zenodo bla bla

<https://doi.org/10.5281/zenodo.3835767>

Metadata

```
sessionInfo()
```

```
## R version 3.6.2 (2019-12-12)
## Platform: x86_64-pc-linux-gnu (64-bit)
## Running under: Ubuntu 19.10
##
## Matrix products: default
## BLAS: /usr/lib/x86_64-linux-gnu/openblas/libblas.so.3
## LAPACK: /usr/lib/x86_64-linux-gnu/libopenblas-p-r0.3.7.so
##
## locale:
##  [1] LC_CTYPE=en_US.UTF-8      LC_NUMERIC=C
##  [3] LC_TIME=de_DE.UTF-8      LC_COLLATE=en_US.UTF-8
##  [5] LC_MONETARY=de_DE.UTF-8  LC_MESSAGES=en_US.UTF-8
##  [7] LC_PAPER=de_DE.UTF-8     LC_NAME=C
##  [9] LC_ADDRESS=C             LC_TELEPHONE=C
## [11] LC_MEASUREMENT=de_DE.UTF-8 LC_IDENTIFICATION=C
##
## attached base packages:
## [1] stats      graphics  grDevices  utils      datasets  methods    base
##
## other attached packages:
## [1] ceurticles_0.1.9001 rtticles_0.14.1      kableExtra_1.1.0
## [4] gert_0.3           rmarkdown_2.1        stringr_1.4.0
```



```

## [7] dplyr_0.8.5          tibble_3.0.1          here_0.1
##
## loaded via a namespace (and not attached):
## [1] Rcpp_1.0.4.6          pillar_1.4.4          compiler_3.6.2        prettyunits_1.1.1
## [5] remotes_2.1.1         tools_3.6.2           sys_3.3               pkgbuild_1.0.8
## [9] digest_0.6.25         viridisLite_0.3.0     evaluate_0.14         lifecycle_0.2.0
## [13] pkgconfig_2.0.3       rlang_0.4.6           rstudioapi_0.11       cli_2.0.2
## [17] yaml_2.2.1            xfun_0.13             xml2_1.3.2            httr_1.4.1
## [21] withr_2.2.0           knitr_1.28            hms_0.5.3             vctrs_0.3.0
## [25] askpass_1.1           webshot_0.5.2         rprojroot_1.3-2       tidyselect_1.1.0
## [29] glue_1.4.1            R6_2.4.1              processx_3.4.2        fansi_0.4.1
## [33] readr_1.3.1           purrr_0.3.4           callr_3.4.3           magrittr_1.5
## [37] scales_1.1.1          backports_1.1.7       credentials_1.1        ps_1.3.3
## [41] ellipsis_0.3.1        htmltools_0.4.0       rvest_0.3.5           assertthat_0.2.1
## [45] colorspace_1.4-1      tinytex_0.23          stringi_1.4.6         munsell_0.5.0
## [49] openssl_1.4.1         crayon_1.3.4

```