

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 for CEUR-WS.

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("submission/ceur-ws")
```

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

```
# read from repos.txt  
library("tibble")  
suppressPackageStartupMessages(library("dplyr"))  
library("stringr")  
  
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  
library("gert")
```

```
## Linking to libgit2 v0.27.7, ssh support: YES, https support: YES
```

```
## Default user: Travis CI <daniel.nuest@uni-muenster.de>
```

```

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)
}

```

```

## Skipping existing directory article_repos/Alexander_Kmoch_Evelyn_Uemaa_Daniel_Nuest
## 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/Radek_Barvir
## Skipping existing directory article_repos/Sansar_Raj_Meena
## Skipping existing directory article_repos/Yannis_Paraskevopoulos

```

Create a PDF for each repo

```

library("rmarkdown")
remotes::install_local("template/ceurticles", force = TRUE)

```

```

##
##      checking for file '/tmp/RtmpcrUoJy/file2a2c3e134f10/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_0.1.9000.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_
## 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_
## Meena.Rmd, notes.Rmd
## Using: Meena.Rmd

```

```

library("knitr")
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 Uuemaa, Daniel Nüst	agilephdschool2019/agile_2019_summary	alexander/agile_2019_summary	Alexander Knoch Evelyn Uuemaa Daniel Nüst	article_repos/Alexander Knoch Evelyn Uuemaa Daniel Nüst	index.Rmd
Bruno Monttheller	agilephdschool2019/brunomonttheller_agile_2019	brunomonttheller/agile_2019	Bruno Monttheller	article_repos/Bruno Monttheller	notes_agile_2019.Rmd
Daiga Perseva	agilephdschool2019/daigapersova_AGILE	daigapersova/AGILE	Daiga Perseva	article_repos/Daiga Perseva	notes.Rmd
Ditsuhl Iskandaryan	agilephdschool2019/Ditsuhl_agile2019	Ditsuhl/agile2019	Ditsuhl Iskandaryan	article_repos/Ditsuhl Iskandaryan	Summary.Rmd
Ewa Grabka	agilephdschool2019/egrabka_tartu_project	egrabka/tartu_project	Ewa Grabka	article_repos/Ewa Grabka	project.Rmd
Georgios Leventis	agilephdschool2019/gxarmanis_agile_2019	gxarmanis/agile_2019_test	Georgios Leventis	article_repos/Georgios Leventis	notes.Rmd
Jakub Koniecz	agilephdschool2019/konij01_agile	konij01/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 Benilova	agilephdschool2019/marpedim7_agile_2019	marpedim7/agile_2019	Marketa Benilova	article_repos/Marketa Benilova	notetext.Rmd
Moris Zahitla	agilephdschool2019/mahitla_agile_phi1_school	mahitla/agile_phi1_school	Moris Zahitla	article_repos/Moris Zahitla	notes.Rmd
Radek Barvir	agilephdschool2019/radeklarvir_agile_2019	radeklarvir/agile_2019_test	Radek Barvir	article_repos/Radek Barvir	radek.Rmd
Sansar Raj Meena	agilephdschool2019/sansarmeena_Agile_2019_phi1	sansarmeena/Agile_2019_phi1_Meena	Sansar Raj Meena	article_repos/Sansar Raj Meena	Meena.Rmd
Yannis Parnakevopoulos	agilephdschool2019/yannis-p_agile_2019	yannis-p/agile_2019_test	Yannis Parnakevopoulos	article_repos/Yannis Parnakevopoulos	notes_pre-16.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: submission/ceur-ws/Alexander_Kmoch_Evelyn_Uemaa_Daniel_Nuest.pdf

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

## output file: notes_agile_2019.knit.md

##
## Output created: submission/ceur-ws/Bruno_Montibeller.pdf

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

## output file: notes.knit.md

##
## Output created: submission/ceur-ws/Daiga_Parsova.pdf

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

## output file: Summary.knit.md

##
## Output created: submission/ceur-ws/Ditsuhi_Iskandaryan.pdf

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

## output file: project.knit.md

```

```
##
## Output created: submission/ceur-ws/Ewa_Grabska.pdf

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

## output file: notes.knit.md

##
## Output created: submission/ceur-ws/Georgios_Leventis.pdf

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

## output file: konicek.knit.md

##
## Output created: submission/ceur-ws/Jakub_Konicek.pdf

##
##
## processing file: AGILEreport.Rmd

## output file: AGILEreport.knit.md

##
## Output created: submission/ceur-ws/Jennie_Gray.pdf

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

## output file: notatka.knit.md

##
## Output created: submission/ceur-ws/Marcin_Szwagrzyk.pdf

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

## output file: notetex.knit.md

##
## Output created: submission/ceur-ws/Marketa_Beitlova.pdf

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

```

## output file: notes.knit.md

##
## Output created: submission/ceur-ws/Moris_Zahtila.pdf

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

## output file: radek.knit.md

##
## Output created: submission/ceur-ws/Radek_Barvir.pdf

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

## output file: Meena.knit.md

##
## Output created: submission/ceur-ws/Sansar_Raj_Meena.pdf

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

## output file: notes_pre_fv.knit.md

##
## Output created: submission/ceur-ws/Yannis_Paraskevopoulos.pdf

```

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

```

## [1] "AGILEPHD2019.bib"
## [2] "Alexander_Kmoch_Evelyn_Uemaa_Daniel_Nuest.pdf"
## [3] "Bruno_Montibeller.pdf"
## [4] "Daiga_Parsova.pdf"
## [5] "Ditsuhi_Iskandaryan.pdf"
## [6] "Ewa_Grabska.pdf"
## [7] "Georgios_Leventis.pdf"
## [8] "index.html"
## [9] "Jakub_Konicek.pdf"
## [10] "Jennie_Gray.pdf"
## [11] "Marcin_Szwagrzyk.pdf"
## [12] "Marketa_Beitlova.pdf"
## [13] "Moris_Zahtila.pdf"
## [14] "Radek_Barvir.pdf"
## [15] "Sansar_Raj_Meena.pdf"
## [16] "Yannis_Paraskevopoulos.pdf"

```

Create CEUR-WS proceedings

Based on <http://ceur-ws.org/HOWTOSUBMIT.html>

Generate the table of contents

1. Install ceur-make

- On Ubuntu install `libsaxonhe-java` and find the location of the `.jar` file with `dpkg -L libsaxonhe-java` (or get the JAR from somewhere else)
 - Create the submission files from the directory of `ceur-make`, using `./ceur-make-init ~/git/agile_2019_phd_school_proceedings/submission`
 - Adjust `Makefile.vars` with path to SAXON HE
3. Enter all information in `submission/workshop.xml` *manually*
4. Enter all information in `submission/toc.xml` *with the script below*

```
suppressPackageStartupMessages(library("glue"))

author_template <- '<author>{author}</author>'
paper_template <- '<paper id="{id}">
  <title>{title}</title>
  <authors>
    {authors}
  </authors>
</paper>'

generate_toc_entry <- function(article) {
  article_yaml <- rmarkdown::yaml_front_matter(file.path(article$path, article$rmd_file))
  authors <- paste0(glue::glue_data(
    list(author = sapply(article_yaml$author,
                        function(a) { a$name })),
    author_template),
    collapse = "\n      ")
  glue::glue_data(list(title = article_yaml$title,
                      id = article$id,
                      authors = authors),
    paper_template)
}

tocs <- c()
for (i in 1:nrow(articles)) {
  tocs <- c(tocs, generate_toc_entry(article = articles[i,]))
}

writeLines(c("<toc>",
            tocs,
            "</toc>"),
  con = file("submission/toc.xml"))
```

3. Create submission in submission directory with ceur-make


```
cd submission
make ceur-ws/index.html ceur-ws/temp.bib
mv ceur-ws/temp.bib ceur-ws/AGILEPHD2019.bib
```

```
## i=1 ; \
## for p in 999????? ; \
## do \
## [[ ! -e $p/$p.pdf ]] && break ; \
## ln -sfv ../$p/$p.pdf ceur-ws/paper-$(printf "%02d" $i).pdf ; \
## (( i++ )) ; \
## done ; \
## if [[ -e ../proc.pdf ]] ; then \
## ln -sfv ../proc.pdf ceur-ws/$(< ID)-complete.pdf ; \
## fi
## java -jar /usr/share/maven-repo/net/sf/saxon/Saxon-HE/9.9.1.1/Saxon-HE-9.9.1.1.jar toc.xml toc2ceuri
## > ceur-ws/index.html
## java -jar /usr/share/maven-repo/net/sf/saxon/Saxon-HE/9.9.1.1/Saxon-HE-9.9.1.1.jar toc.xml toc2bibte
## echo "Please copy ceur-ws/temp.bib to ceur-ws/$(< ID).bib and fine-tune manually"
## Please copy ceur-ws/temp.bib to ceur-ws/AGILEPHD2019.bib and fine-tune manually
```

Prepare the submission file

1. Double check `submission/ceur-ws/index.html` and `submission/ceur-ws/AGILEPHD2019.bib`
2. HTML Validation: *“You can check the consistency/completeness of the submission directory by accessing it locally with your Web browser, and we require you to validate it using the W3C Validator. If you use RDFa tags, we ask you to validate your RDFa by using the W3C RDFa parser.”*

Submit with the “Upload (Procedure PUT)”

1. Check <http://ceur-ws.org/HOWTOSUBMIT.html#TOPERRORS>
2. Create a release tag, https://github.com/agilephdschool2019/agile_2019_phd_school_proceedings/releases
3. Create the submission ZIP file as documented by CEUR (see above)
4. Upload the submission ZIP to the GitHub release
5. Upload a ZIP with the signed agreements to another place
6. Send the link to the PDF to CEUR via Email

- Subject: CEURWS submission: (workshop acronym)
- Content:
 - URL of submission directory with ZIP files for the submission and the signed agreements
 - Your contact details

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-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] glue_1.4.0          ceurticles_0.1.9000 rtticles_0.14.1
##  [4] kableExtra_1.1.0    knitr_1.28          rmarkdown_2.1
##  [7] gert_0.3            stringr_1.4.0       dplyr_0.8.5
## [10] tibble_3.0.1        here_0.1
##
## loaded via a namespace (and not attached):
##  [1] Rcpp_1.0.4.6        pillar_1.4.3        compiler_3.6.2      prettyunits_1.1.1
##  [5] remotes_2.1.1       tools_3.6.2         sys_3.3             pkgbuild_1.0.7
##  [9] digest_0.6.25       viridisLite_0.3.0   evaluate_0.14       lifecycle_0.2.0
## [13] pkgconfig_2.0.3     rlang_0.4.5         rstudioapi_0.11     cli_2.0.2
## [17] yaml_2.2.1          xfun_0.13           xml2_1.3.2          http_1.4.1
## [21] withr_2.2.0         hms_0.5.3           vctrs_0.2.4         askpass_1.1
## [25] webshot_0.5.2       rprojroot_1.3-2     tidyselect_1.0.0    R6_2.4.1
## [29] processx_3.4.2      fansi_0.4.1         readr_1.3.1         purrr_0.3.4
## [33] callr_3.4.3         magrittr_1.5        scales_1.1.0        backports_1.1.6
## [37] credentials_1.1     ps_1.3.2            ellipsis_0.3.0      htmltools_0.4.0
## [41] rvest_0.3.5         assertthat_0.2.1    colorspace_1.4-1    tinytex_0.22
## [45] stringi_1.4.6       munsell_0.5.0       openssl_1.4.1       crayon_1.3.4
```