We are helping run a conference this September – [FOSS4GUK](https://uk.osgeo.org/foss4guk2019/). To help promote the event We’ve created a wordcloud of conference abstracts, in [R](https://cran.r-project.org/)!



The conference is taking place in Edinburgh, Scotland at Dynamic Earth. It’s focused on free and open source software for geospatial (FOSS4G), as such is full stack. Everything from backend databases, ETL, analysis to web publication. Tools featured include [QGIS](https://qgis.org/), [R](https://cran.r-project.org/), [Python](https://www.python.org/), [PostGIS](https://postgis.net/), [leaflet](https://leafletjs.com/) and many others.

**Tickets:** [**https://uk.osgeo.org/foss4guk2019/**](https://uk.osgeo.org/foss4guk2019/)

**Follow on twitter:** [**https://twitter.com/foss4guk**](https://twitter.com/foss4guk)

Back to the wordcloud. Working with plain text files, I followed [Julia and David’s excellent instructions](https://www.tidytextmining.com/sentiment.html) and then added decoration in [GIMP](https://www.gimp.org/). R script below.

﻿

library(tidyverse)

library(tidytext)

library(wordcloud)

# ----------------------------

data("stop\_words")

f = list.files("~/dir/dir")

abstracts = lapply(f, function(i){

read\_table(paste0("~/dir/dir/", i),

col\_names = F) %>%

gather(key, word) %>%

select(-key) %>%

add\_column(author = str\_remove(i, ".txt")) %>%

unnest\_tokens(word, word) %>%

anti\_join(stop\_words)

})

abstracts = do.call("rbind.data.frame", abstracts)

png("~/dir/dir/abstract\_wordcloud.png",

width=1200, height=800, res=150)

par(mar = rep(0, 4))

abstracts %>%

drop\_na() %>%

filter(!str\_detect(word, "[0-9]") &

word != "e.g") %>%

count(word) %>%

with(wordcloud(word, n,

random.order = FALSE,

max.words = 150,

colors = c("#497fbf", "#f49835"),

rot.per = 0, fixed.asp = F))

dev.off()