Using the PACViR Pipeline

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1 Introduction

The PACViR pipeline generates a visualization of a plastome in a circular fashion. This vignette provides two examples of how to execute PACViR via the R function 'PACViR.complete()' and via bash.

2 Requirements

To execute PACViR several requirements have to be installed.

```
>     #library(PACViR)
>
```

3 PACViR via R-function

PACViR can be easily executed via the PACViR.complete() function in R. Therefore one can load the provided data from the package.

```
>     # The absolute path to the input directory is set
>     inPath <- system.file("extdata", "MH161174/", package="PACViR")
>     # The names of the input files located in inPath are set
>     inFile_gb  <- "MH161174.gb"
>     inFile_bam <- "MH161174.bam"
>     gbk.file <- paste(inPath,"/",inFile_gb)
>     bam.file <- paste(inPath,"/",inFile_bam)
>     windowSize <- 250
>     mosdepthCmd <- "mosdepth"
>     threshold <- 15
```

```
>     delete <- "TRUE"
>     outDir <- "./output"
>     #PACViR.complete(gbk.file, bam.file, windowSize, mosdepthCmd, threshold, delete, outDir)
```

4 PACViR via command line

Execute PACViR_Rscript.R via command line with Rscript.

```
  Rscript PACViR_Rscript.R  -k ../inst/extdata/DAS01.gb -b ../inst/extdata/DAS01.bam
```

5 Modifying parameters

Depending on which system PACViR will be executed

6 More Information

7 sessionInfo

```
> sessionInfo()

R version 3.3.3 (2017-03-06)
Platform: x86_64-pc-linux-gnu (64-bit)
Running under: Debian GNU/Linux 9 (stretch)

locale:
 [1] LC_CTYPE=de_DE.UTF-8       LC_NUMERIC=C
 [3] LC_TIME=de_DE.UTF-8        LC_COLLATE=de_DE.UTF-8
 [5] LC_MONETARY=de_DE.UTF-8    LC_MESSAGES=de_DE.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
[6] methods   base

loaded via a namespace (and not attached):
[1] tools_3.3.3
```