

bioinf_playground

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```
library(msa)
```

```
## Loading required package: Biostrings
## Loading required package: BiocGenerics
## Loading required package: parallel
##
## Attaching package: 'BiocGenerics'
## The following objects are masked from 'package:parallel':
##
##   clusterApply, clusterApplyLB, clusterCall, clusterEvalQ,
##   clusterExport, clusterMap, parApply, parCapply, parLapply,
##   parLapplyLB, parRapply, parSapply, parSapplyLB
## The following objects are masked from 'package:stats':
##
##   IQR, mad, sd, var, xtabs
## The following objects are masked from 'package:base':
##
##   anyDuplicated, append, as.data.frame, basename, cbind,
##   colMeans, colnames, colSums, dirname, do.call, duplicated,
##   eval, evalq, Filter, Find, get, grep, grepl, intersect,
##   is.unsorted, lapply, lengths, Map, mapply, match, mget, order,
##   paste, pmax, pmax.int, pmin, pmin.int, Position, rank, rbind,
##   Reduce, rowMeans, rownames, rowSums, sapply, setdiff, sort,
##   table, tapply, union, unique, unsplit, which, which.max,
##   which.min
## Loading required package: S4Vectors
## Loading required package: stats4
##
## Attaching package: 'S4Vectors'
## The following object is masked from 'package:base':
##
##   expand.grid
## Loading required package: IRanges
## Loading required package: XVector
##
## Attaching package: 'Biostrings'
## The following object is masked from 'package:base':
##
##   strsplit
```

```

sim_sample_as_AAStringSet =
  readAAStringSet("data/simulated_lizards.fasta", format = "fasta")

sim_sample_aligned = msa(sim_sample_as_AAStringSet, method = "ClustalW")

## use default substitution matrix
msaPrettyPrint(sim_sample_aligned, y=c(164, 213), output="asis",
  showNames="none", showLogo="none", askForOverwrite=FALSE)

## \begin{texshade}{/tmp/Rtmpg9vZw5/seq41da223a51eb.fasta}
## \seqtype{P}
## \setends{consensus}{164..213}
## \shadingmode{identical}
## \threshold{50}
## \showconsensus[ColdHot]{bottom}
## \shadingcolors{blues}
## \hidelogoscale
## \hidenames
## \shownumbering{right}
## \showlegend
## \end{texshade}

```