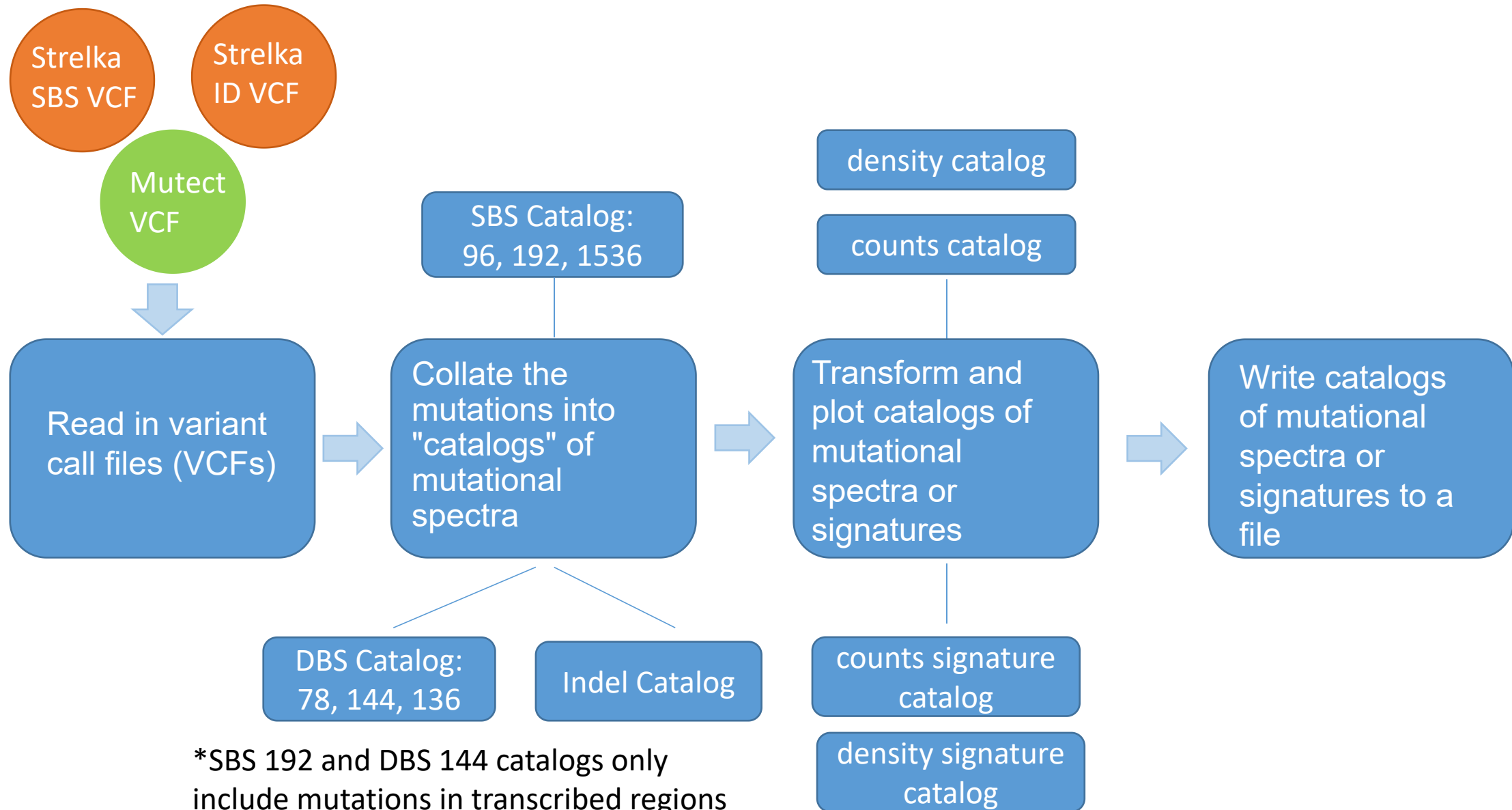
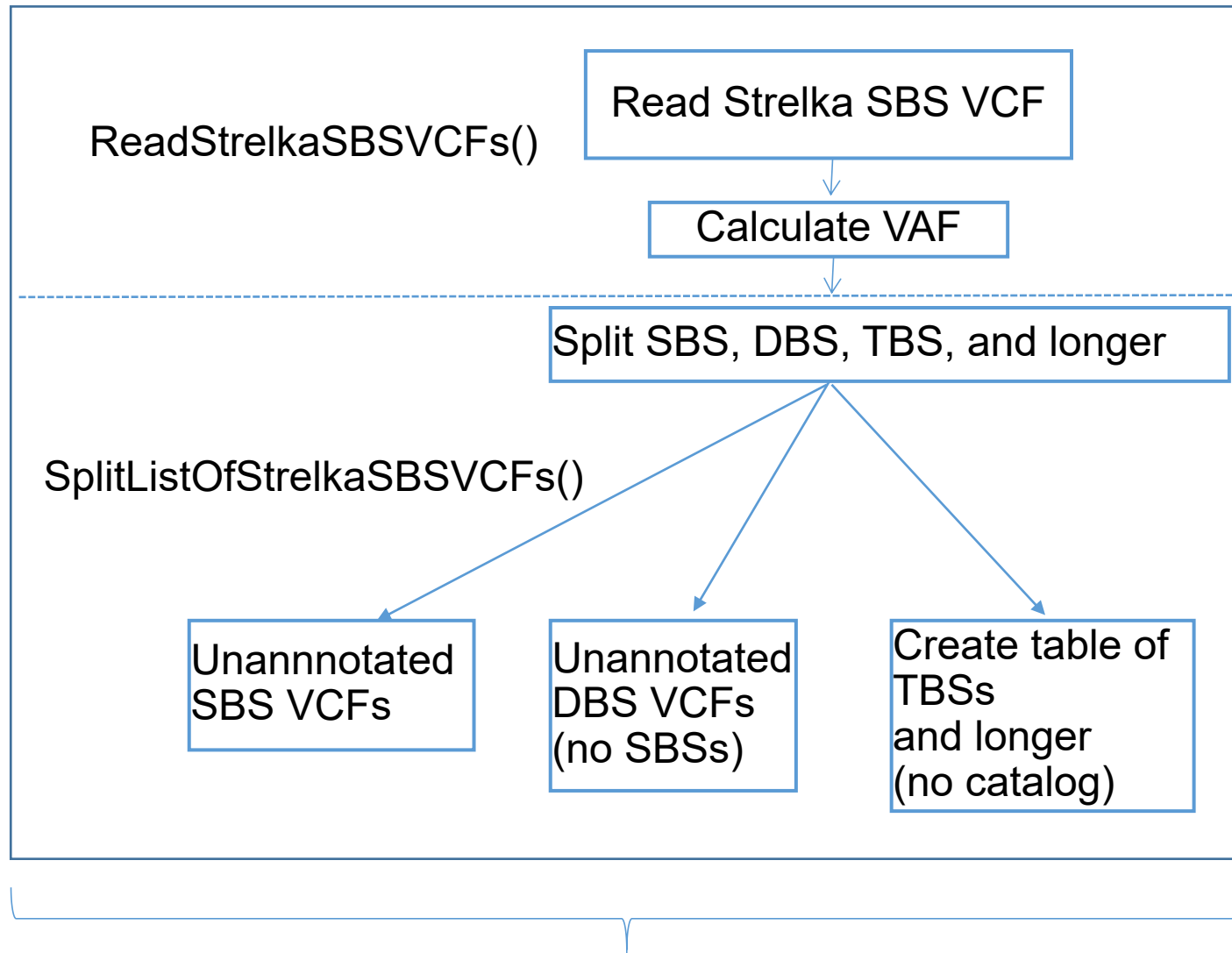


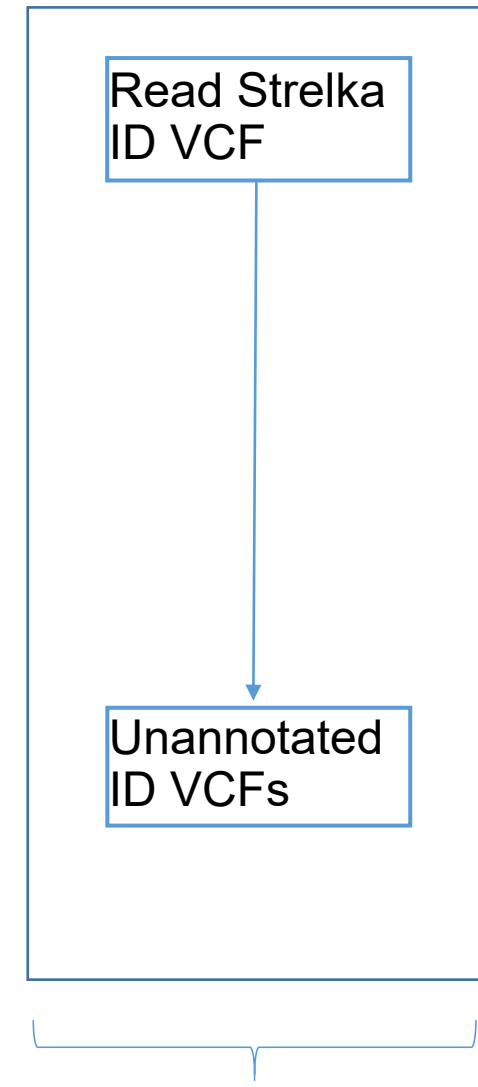
# Overview of ICAMS R package functionalities



# Strelka VCF processing



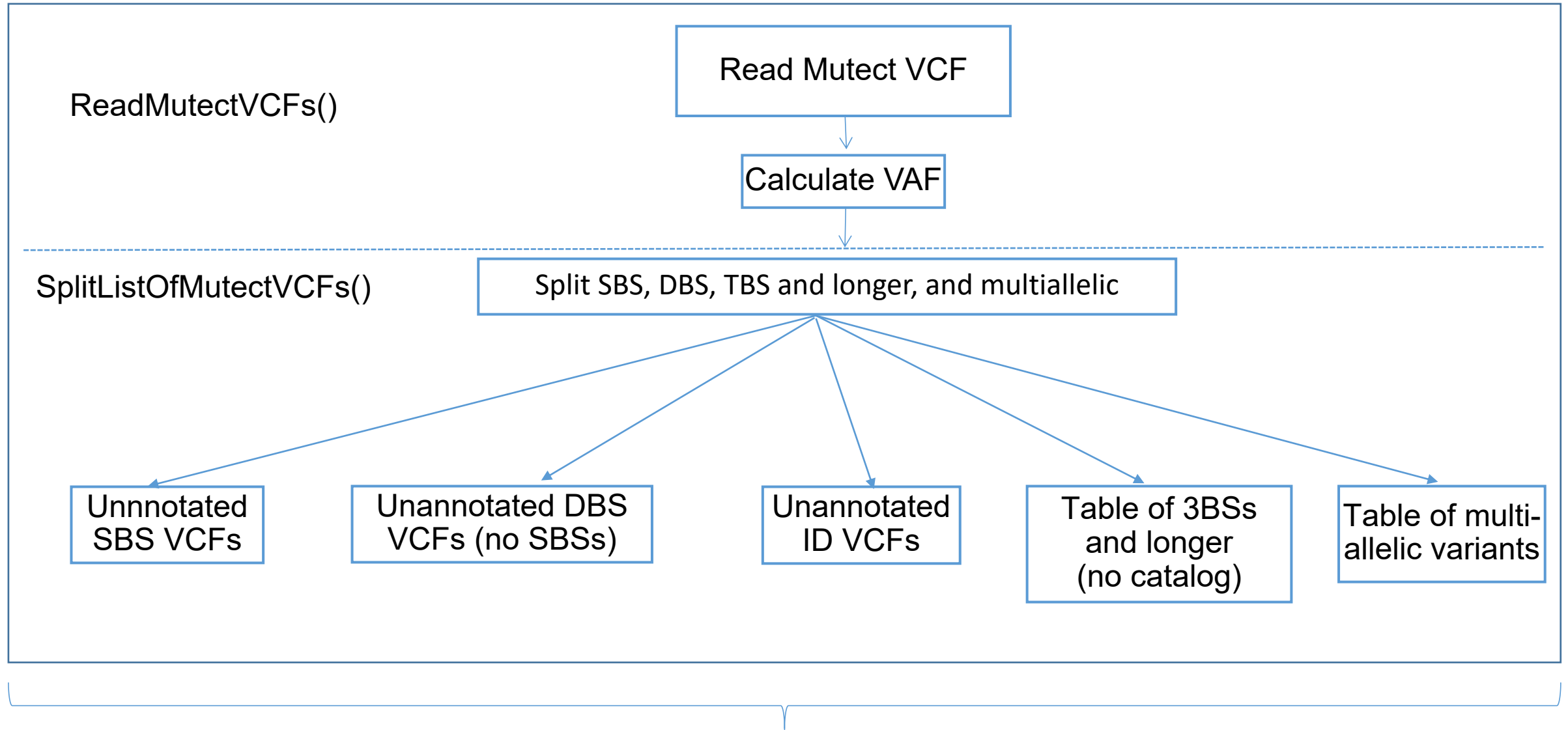
**ReadAndSplitStrelkaSBSVCFs()**



**ReadStrelkaIDVCFs()**

\* Functions whose names in red color are exported in ICAMS

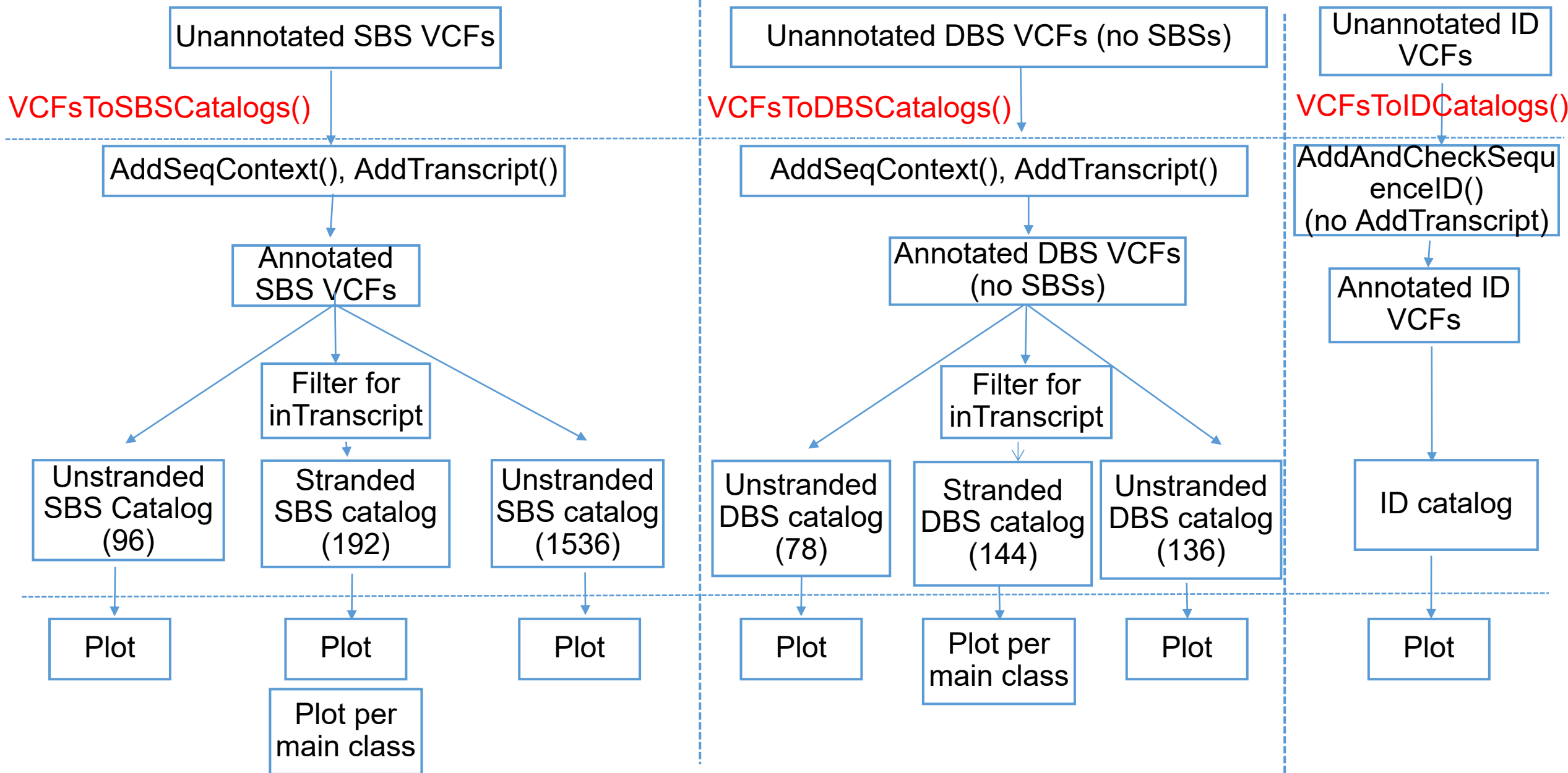
# Mutect VCF processing



**ReadAndSplitMutectVCFs()**

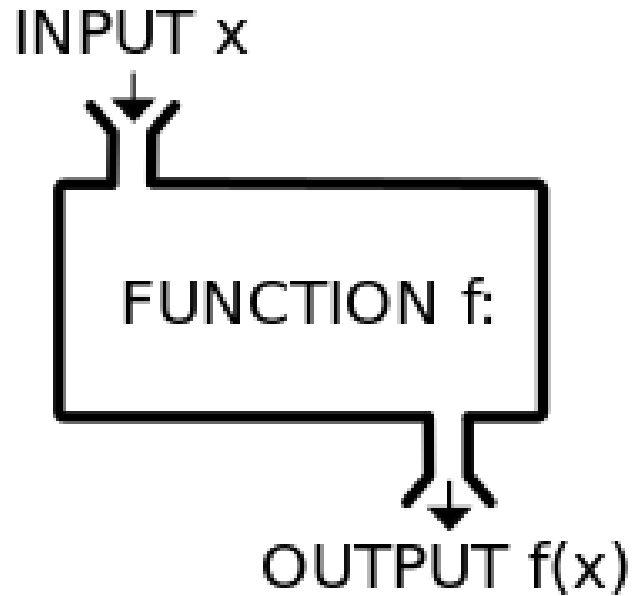
\* Functions whose names in red color are exported in ICAMS

# VCFs to catalogs and beyond



\* Functions whose names in red color are exported in ICAMS

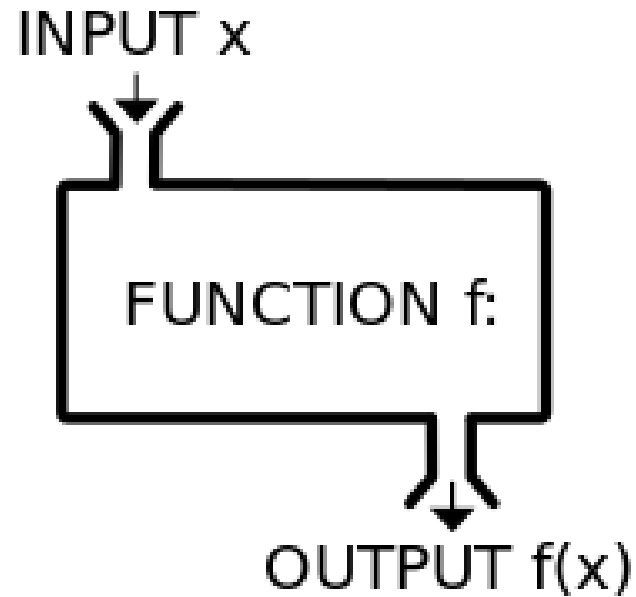
# Important exported functions in ICAMS



Creating catalogs from variant call files (VCF files)

- `StrelkaSBSVCFFilesToCatalog()`
- `StrelkaIDVCFFilesToCatalog()`
- `MutectVCFFilesToCatalog()`

# Important exported functions in ICAMS

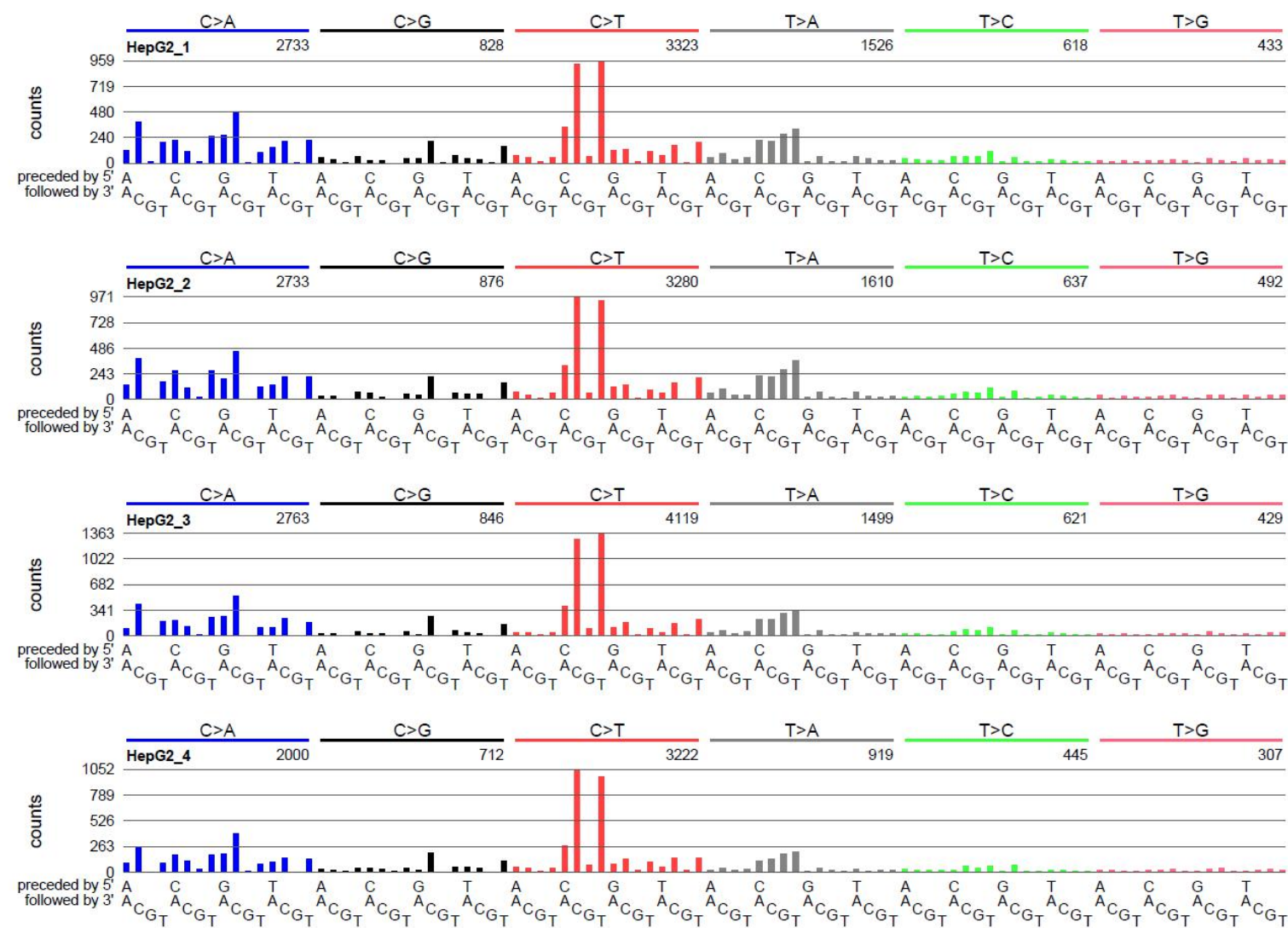


## Plotting catalogs

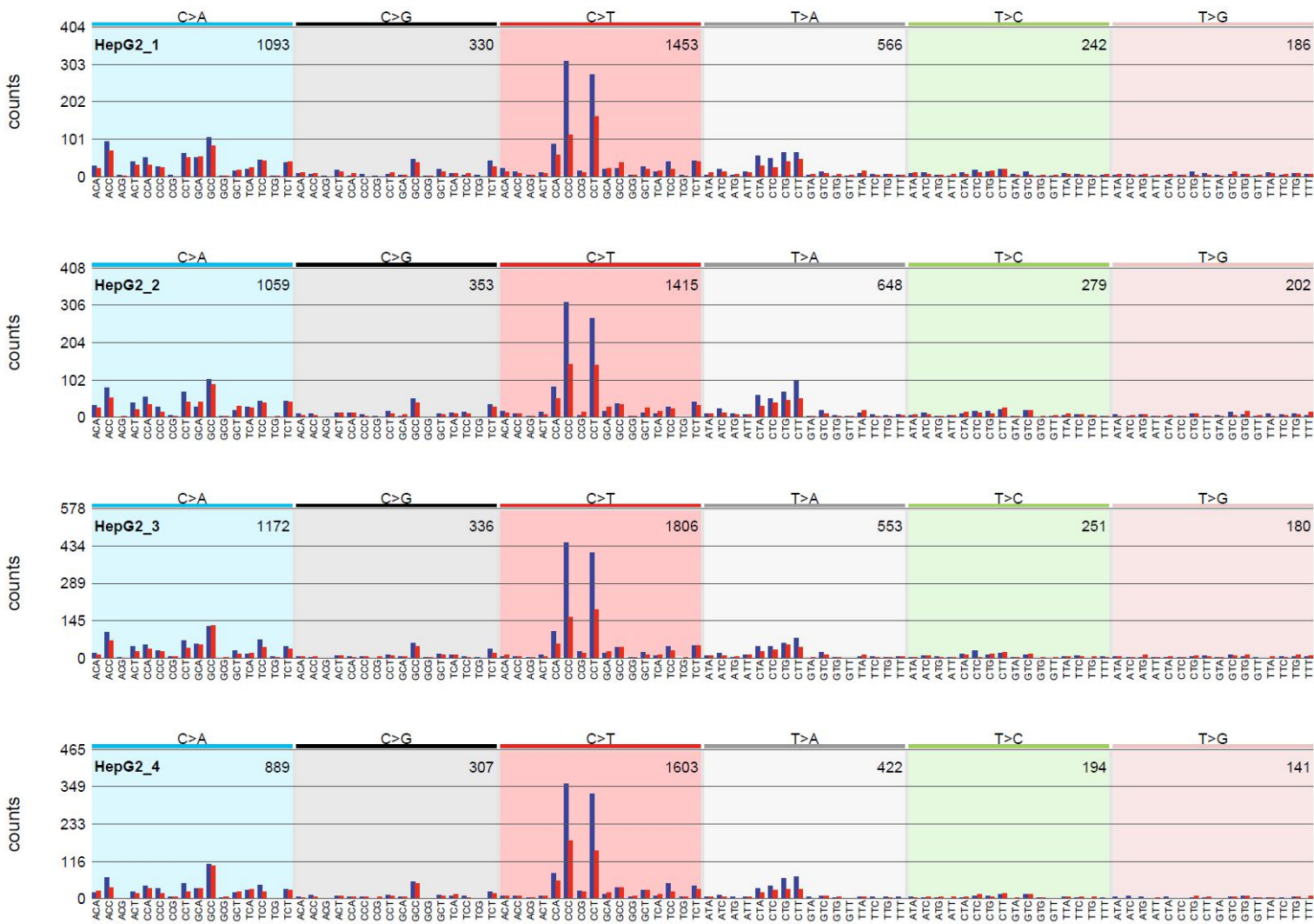
- `PlotCatalog()`
- `PlotCatalogToPdf()`

<https://howtoprogramwithjava.com/functions-in-javascript/>

# PlotCatalogToPdf(): SBS96 Catalog

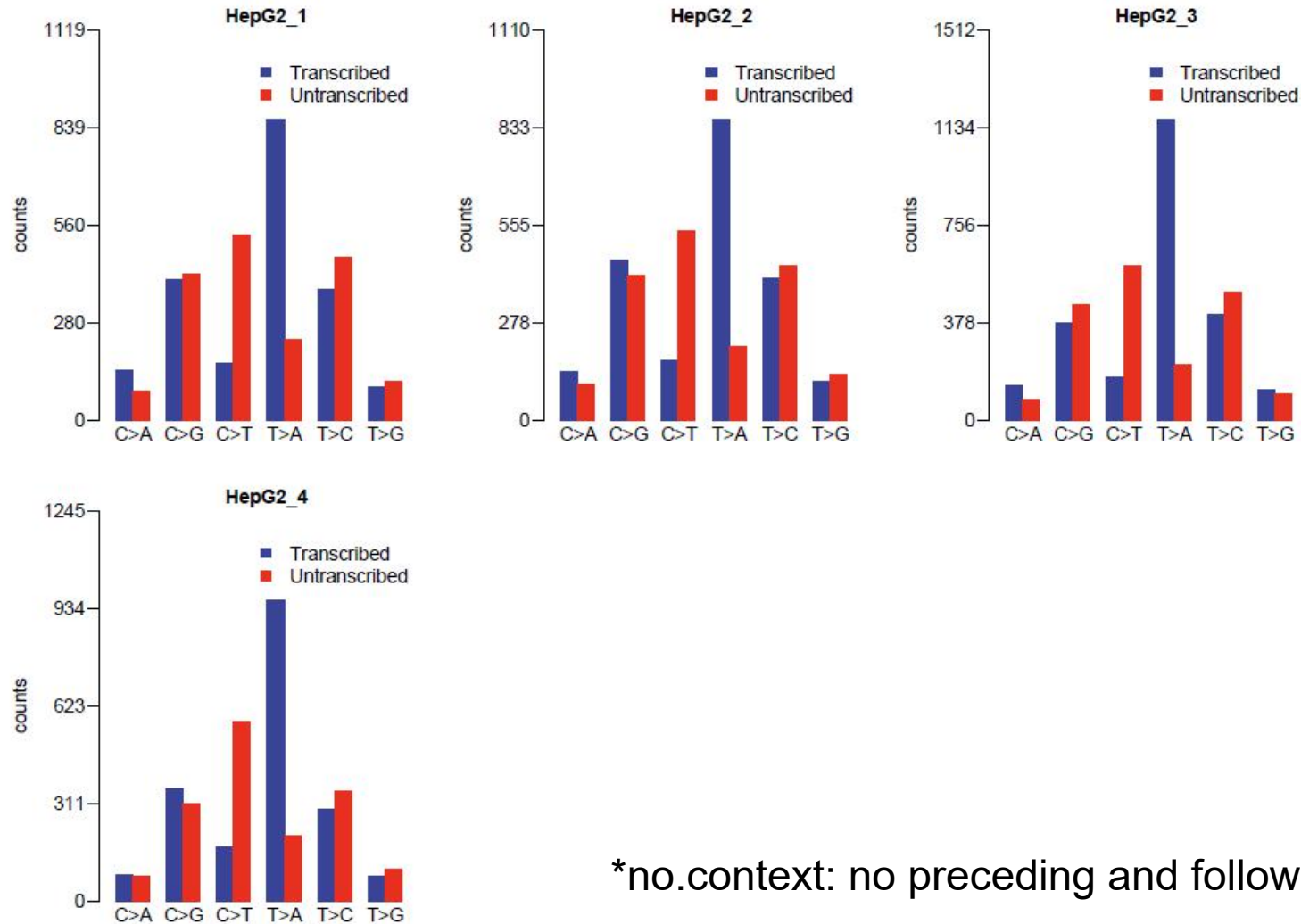


# PlotCatalogToPdf(): SBS192 Catalog





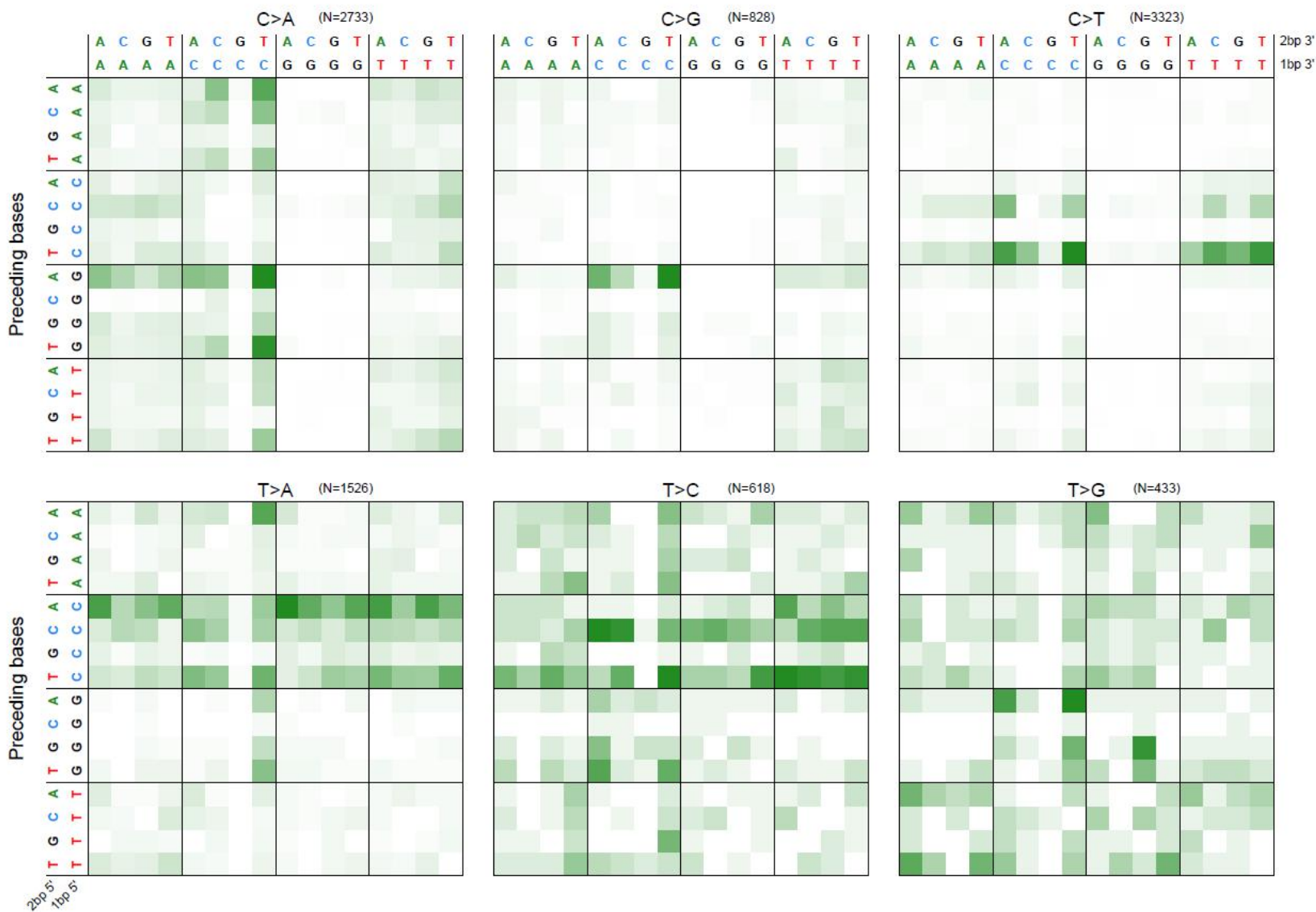
# PlotCatalogToPdf(): SBS192 Catalog with no.context = TRUE



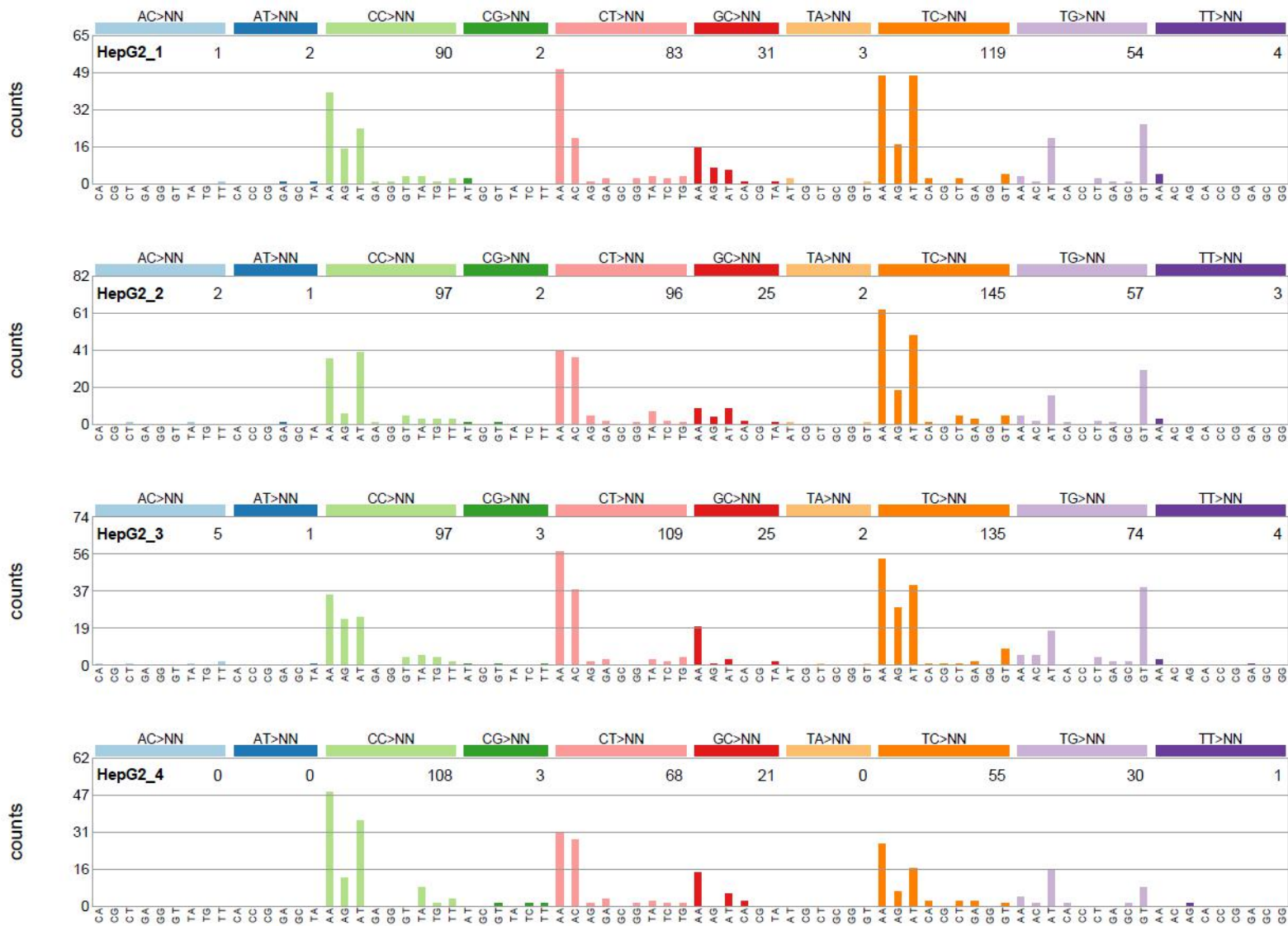
\*no.context: no preceding and following base context

# PlotCatalogToPdf(): SBS1536 Catalog

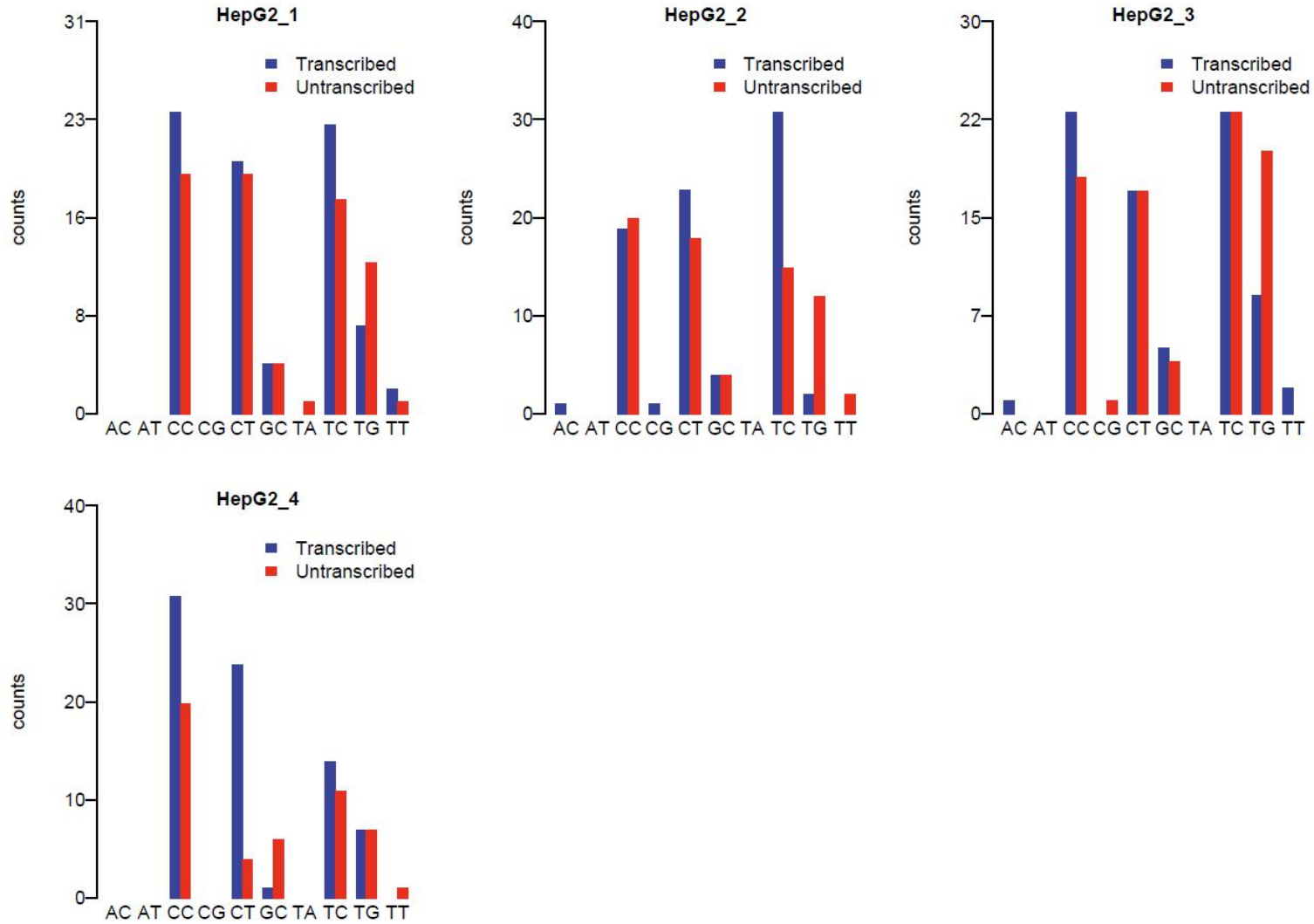
HepG2\_1



# PlotCatalogToPdf(): DBS78 Catalog

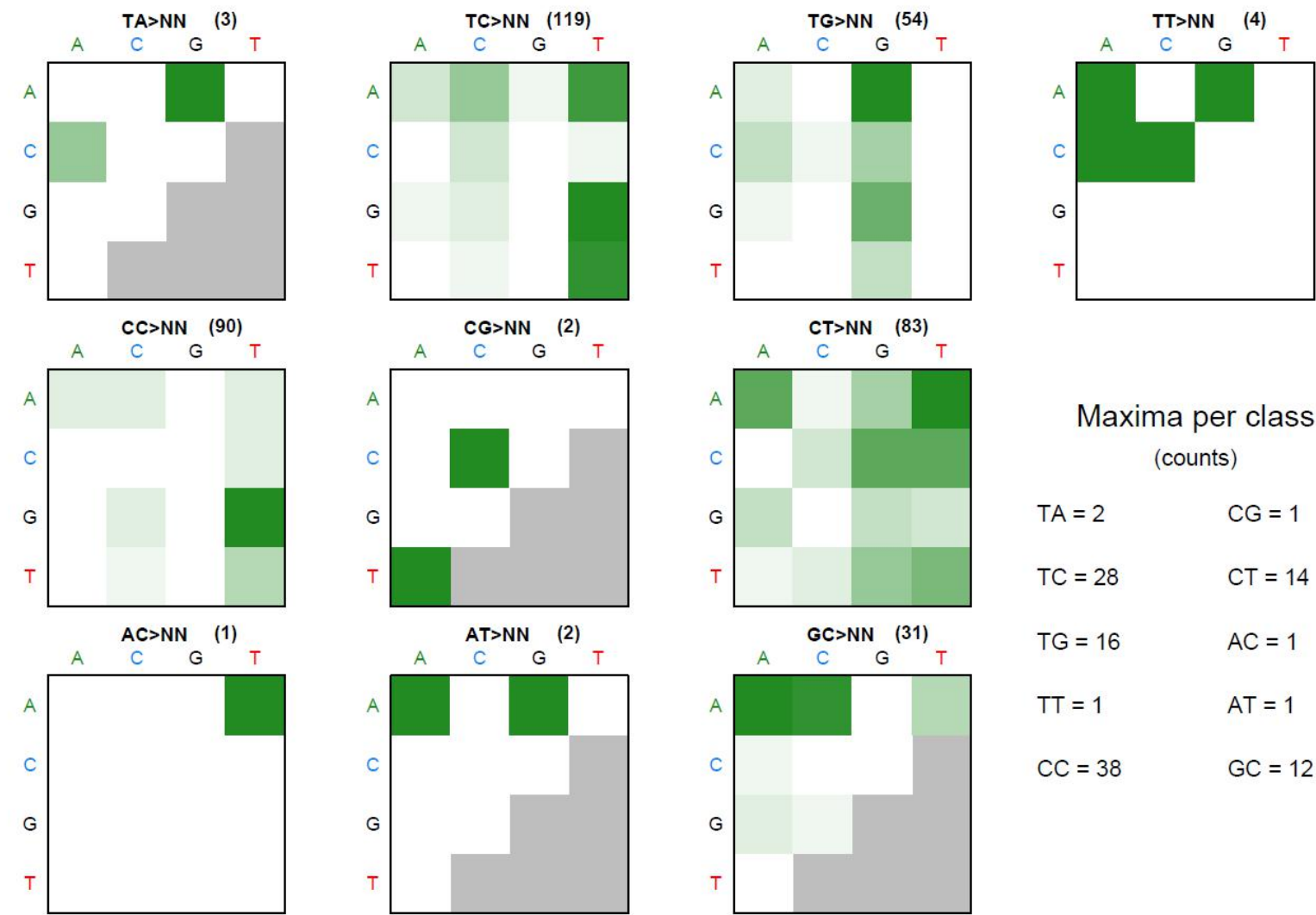


# PlotCatalogToPdf(): DBS144 Catalog



# PlotCatalogToPdf(): DBS136 Catalog

HepG2\_1

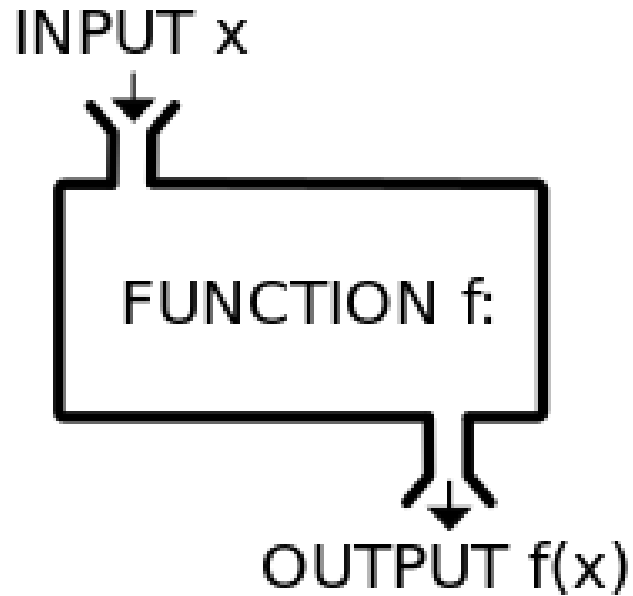


# PlotCatalogToPdf(): Indel Catalog





# Important exported functions in ICAMS

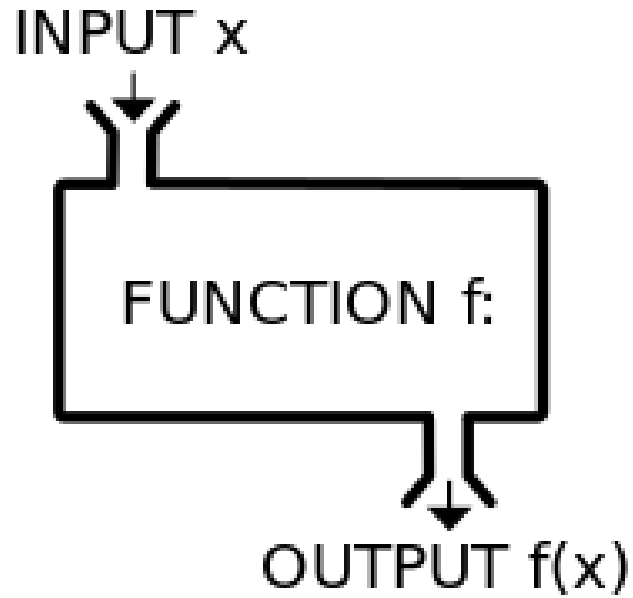


Creating catalogs and plot them to PDF

- StrelkaSBSVCFFilesToCatalogAndPlotToPdf()
- StrelkaIDVCFFilesToCatalogAndPlotToPdf()
- MutectVCFFilesToCatalogAndPlotToPdf()

<https://howtoprogramwithjava.com/functions-in-javascript/>

# Important exported functions in ICAMS

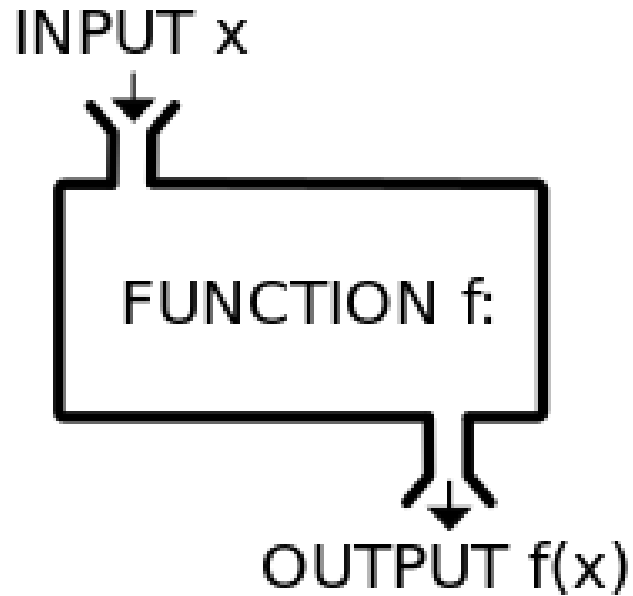


## Reading and writing catalogs

- ReadCatalog()
- WriteCatalog()



# Important exported functions in ICAMS

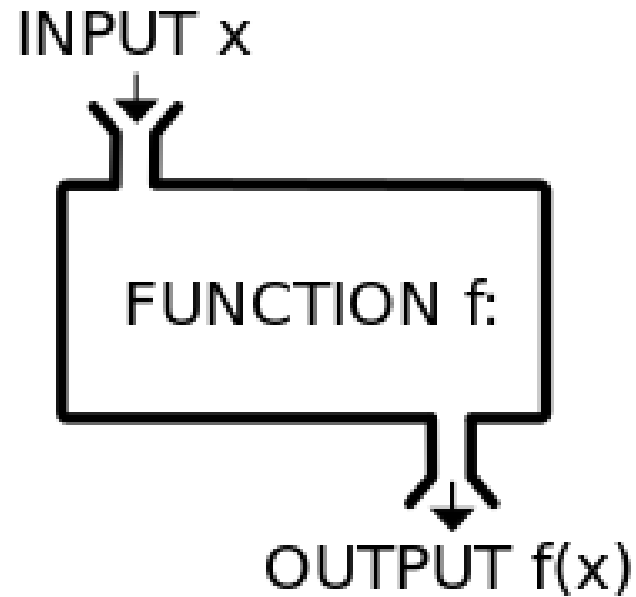


"Collapse" a catalog

- Collapse192CatalogTo96()
- Collapse1536CatalogTo96()
- Collapse144CatalogTo78()

<https://howtoprogramwithjava.com/functions-in-javascript/>

# Important exported functions in ICAMS



## Utility functions

- TransformCatalog()
- as.catalog()
- revc()

<https://howtoprogramwithjava.com/functions-in-javascript/>