

GMQL: GenoMetrics Query Language

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2017-08-20

Contents

1	Introduction	1
1.1	Purpose	1
2	Dataset	1
3	Environments	2
3.1	Local	4
3.2	Global	4
4	Local Environment	4
4.1	Datasource	4
4.2	Queries	4
4.3	Execution	4
5	More Example	4

vaffanculo

1 Introduction

Improvement of sequencing technologies and data processing pipelines is rapidly providing sequencing data, with associated high-level features, of many individual genomes in multiple biological and clinical conditions. For this purpose GMQL has been proposed a high-level, declarative GenoMetric Query Language (GMQL) and a toolkit for its use.

1.1 Purpose

This package provides a set of functions to create, manipulate and extract genomic data from different datasources from local and remote datasets.

These functios allow performing complex queries without the knowledge of GMQL syntax

2 Dataset

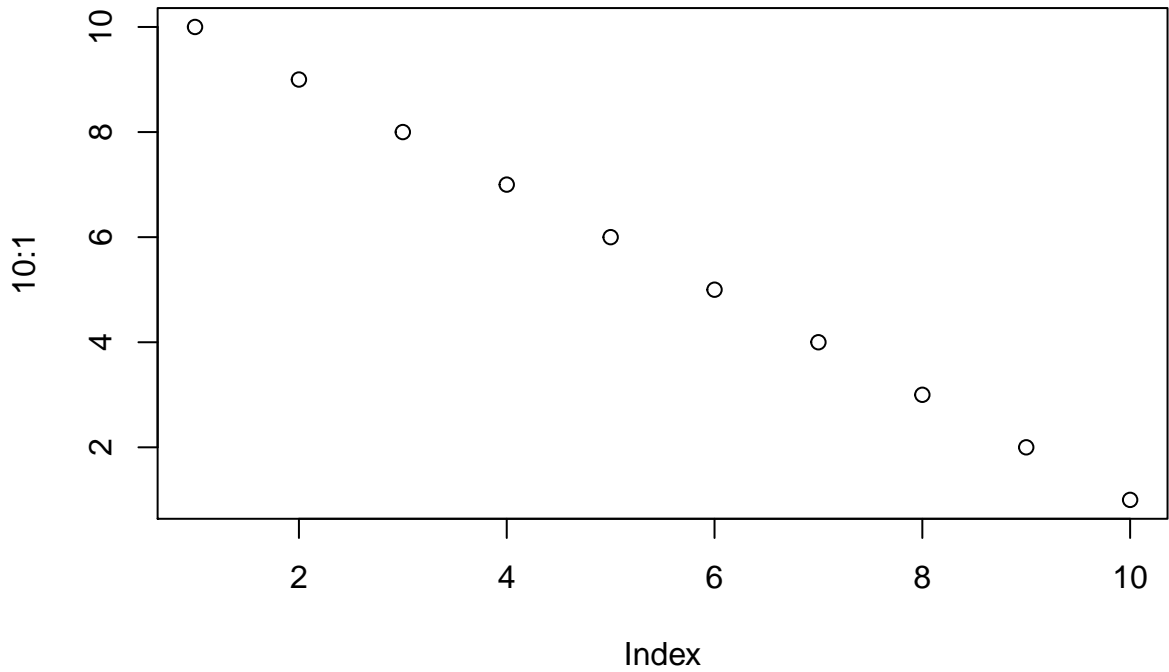
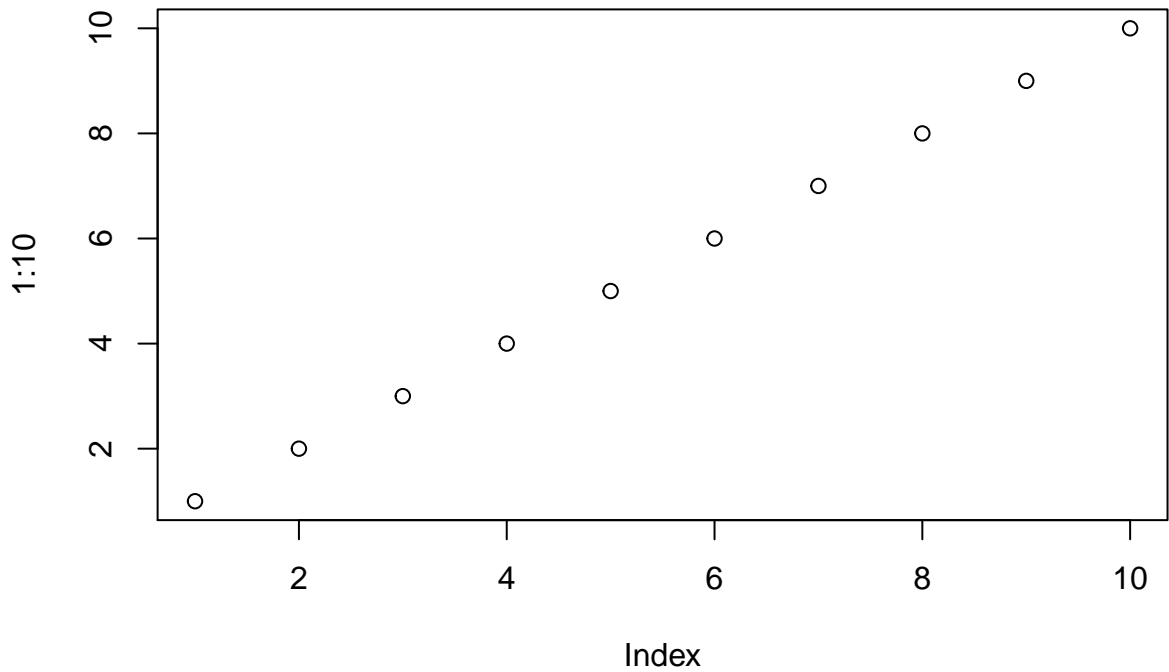
The `html_vignette` template includes a basic CSS theme. To override this theme you can specify your own CSS in the document metadata as follows:

```
output:
  rmarkdown::pdf_document:
    css: mystyles.css
```

3 Environments

The figure sizes have been customised so that you can easily put two images side-by-side.

```
plot(1:10)  
plot(10:1)
```



You can enable figure captions by `fig_caption: yes` in YAML:

```
output:
  rmarkdown::pdf_document:
    fig_caption: yes
```

Then you can use the chunk option `fig.cap = "Your figure caption."` in **knitr**.

3.1 Local

3.2 Global

4 Local Environment

4.1 Datasource

4.2 Queries

4.3 Execution

You can write math expressions, e.g. $Y = X\beta + \epsilon$, footnotes¹, and tables, e.g. using `knitr::kable()`.

	mpg	cyl	disp	hp	drat	wt	qsec	vs	am	gear	carb
Mazda RX4	21.0	6	160.0	110	3.90	2.620	16.46	0	1	4	4
Mazda RX4 Wag	21.0	6	160.0	110	3.90	2.875	17.02	0	1	4	4
Datsun 710	22.8	4	108.0	93	3.85	2.320	18.61	1	1	4	1
Hornet 4 Drive	21.4	6	258.0	110	3.08	3.215	19.44	1	0	3	1
Hornet Sportabout	18.7	8	360.0	175	3.15	3.440	17.02	0	0	3	2
Valiant	18.1	6	225.0	105	2.76	3.460	20.22	1	0	3	1
Duster 360	14.3	8	360.0	245	3.21	3.570	15.84	0	0	3	4
Merc 240D	24.4	4	146.7	62	3.69	3.190	20.00	1	0	4	2
Merc 230	22.8	4	140.8	95	3.92	3.150	22.90	1	0	4	2
Merc 280	19.2	6	167.6	123	3.92	3.440	18.30	1	0	4	4

Also a quote using `>`:

“He who gives up [code] safety for [code] speed deserves neither.” ([via](#))

5 More Example

¹A footnote here.