

# Overview of prefixes for SPARQL

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## Introduction

This vignette provide an overview of the prefixes defined for each of the packages.

Initially the RRDFQBCRND0 packages were built with a not-so-clear understanding. Further compounding to the lack of understanding is that `rrdf` function `add.triple` is an interface to Apache/Jena java function `addObjectProperty`. The `addObjectProperty` function does not turn a prefixed name into an IRI (using the terminology from [RDF 1.1 Turtle, section 2.4 IRI](#)). This is addressed in the discussion of [Namespaces](#), see note at end of section

For more understanding on the use of prefixes - in other words: what I would have liked to understand some years ago - see Richard Cyganiaks post [URIs have a namespace part and a local part, right?](#).

## Preliminaries

First load the packages.

```
library(rrdfqb)
library(rrdfqbcrnd0)
library(rrdfqbcrndex)
```

## Prefixes in `rrdfqb`, `rrdfqbcrnd0`, `rrdfqbcrndex`

```
rrdfcdisc:::env[["qbCDISCprefixes"]]
```

```
## $rdf
## [1] "http://www.w3.org/1999/02/22-rdf-syntax-ns#"
##
## $skos
## [1] "http://www.w3.org/2004/02/skos/core#"
##
## $prov
## [1] "http://www.w3.org/ns/prov#"
```

```

##
## $rdfs
## [1] "http://www.w3.org/2000/01/rdf-schema#"
##
## $dcat
## [1] "http://www.w3.org/ns/dcat#"
##
## $owl
## [1] "http://www.w3.org/2002/07/owl#"
##
## $xsd
## [1] "http://www.w3.org/2001/XMLSchema#"
##
## $pav
## [1] "http://purl.org/pav"
##
## $dc
## [1] "http://purl.org/dc/elements/1.1/"
##
## $dct
## [1] "http://purl.org/dc/terms/"
##
## $mms
## [1] "http://rdf.cdisc.org/mms#"
##
## $cts
## [1] "http://rdf.cdisc.org/ct/schema#"
##
## $cdiscs
## [1] "http://rdf.cdisc.org/std/schema#"
##
## $'cdash-1-1'
## [1] "http://rdf.cdisc.org/std/cdash-1-1#"
##
## $cdashct
## [1] "http://rdf.cdisc.org/cdash-terminology#"
##
## $sdmct
## [1] "http://rdf.cdisc.org/sdm-terminology#"
##
## $'sdm-1-2'
## [1] "http://rdf.cdisc.org/std/sdm-1-2#"
##
## $'sdm-1-3'
## [1] "http://rdf.cdisc.org/std/sdm-1-3#"
##
## $'sdmts-1-3'
## [1] "http://rdf.cdisc.org/sdm-1-3/schema#"
##
## $'sdmig-3-1-2'
## [1] "http://rdf.cdisc.org/std/sdmig-3-1-2#"
##
## $'sdmig-3-1-3'
## [1] "http://rdf.cdisc.org/std/sdmig-3-1-3#"

```

```
##
## $sendct
## [1] "http://rdf.cdisc.org/send-terminology#"
##
## $'sendig-3-0'
## [1] "http://rdf.cdisc.org/std/sendig-3-0#"
##
## $adamct
## [1] "http://rdf.cdisc.org/adam-terminology#"
##
## $'adam-2-1'
## [1] "http://rdf.cdisc.org/std/adam-2-1#"
##
## $'adamig-1-0'
## [1] "http://rdf.cdisc.org/std/adamig-1-0#"
##
## $'adamvr-1-2'
## [1] "http://rdf.cdisc.org/std/adamvr-1-2#"

```

```
rrdfqb:::env[["rrdfqb"]]
```

```
## $qb
## [1] "http://purl.org/linked-data/cube#"

```

```
rrdfqbcrnd0:::env[["rrdfqbcrnd0"]]
```

```
## $rrdfqbcrnd0
## [1] "http://www.example.org/rrdfqbcrnd0/"

```

These prefixes are also returned by the function `rrdfqbcrnd0/R/Get.default.crnd.prefixes.R`

```
Get.default.crnd.prefixes()
```

```
## $rdf
## [1] "http://www.w3.org/1999/02/22-rdf-syntax-ns#"
##
## $skos
## [1] "http://www.w3.org/2004/02/skos/core#"
##
## $prov
## [1] "http://www.w3.org/ns/prov#"
##
## $rdfs
## [1] "http://www.w3.org/2000/01/rdf-schema#"
##
## $dcat
## [1] "http://www.w3.org/ns/dcat#"
##
## $owl
## [1] "http://www.w3.org/2002/07/owl#"
##
## $xsd

```

```

## [1] "http://www.w3.org/2001/XMLSchema#"
##
## $pav
## [1] "http://purl.org/pav"
##
## $dc
## [1] "http://purl.org/dc/elements/1.1/"
##
## $dct
## [1] "http://purl.org/dc/terms/"
##
## $mms
## [1] "http://rdf.cdisc.org/mms#"
##
## $cts
## [1] "http://rdf.cdisc.org/ct/schema#"
##
## $cdiscs
## [1] "http://rdf.cdisc.org/std/schema#"
##
## $'cdash-1-1'
## [1] "http://rdf.cdisc.org/std/cdash-1-1#"
##
## $cdashct
## [1] "http://rdf.cdisc.org/cdash-terminology#"
##
## $sdtmct
## [1] "http://rdf.cdisc.org/sdtm-terminology#"
##
## $'sdtm-1-2'
## [1] "http://rdf.cdisc.org/std/sdtm-1-2#"
##
## $'sdtm-1-3'
## [1] "http://rdf.cdisc.org/std/sdtm-1-3#"
##
## $'sdtms-1-3'
## [1] "http://rdf.cdisc.org/sdtm-1-3/schema#"
##
## $'sdtmig-3-1-2'
## [1] "http://rdf.cdisc.org/std/sdtmig-3-1-2#"
##
## $'sdtmig-3-1-3'
## [1] "http://rdf.cdisc.org/std/sdtmig-3-1-3#"
##
## $sendct
## [1] "http://rdf.cdisc.org/send-terminology#"
##
## $'sendig-3-0'
## [1] "http://rdf.cdisc.org/std/sendig-3-0#"
##
## $adamct
## [1] "http://rdf.cdisc.org/adam-terminology#"
##
## $'adam-2-1'

```

```
## [1] "http://rdf.cdisc.org/std/adam-2-1#"
##
## $'adamig-1-0'
## [1] "http://rdf.cdisc.org/std/adamig-1-0#"
##
## $'adamvr-1-2'
## [1] "http://rdf.cdisc.org/std/adamvr-1-2#"
##
## $qb
## [1] "http://purl.org/linked-data/cube#"
##
## $rrdfqbcrnd0
## [1] "http://www.example.org/rrdfqbcrnd0/"
```

The function `GetForSparqlPrefix( domainName )` returns the prefixes for use with an ARMD RDF data cube with the given domainName. Note the domain names is shown in lower case.

```
cat(GetForSparqlPrefix( "THE-DOMAIN-NAME" ), "\n")
```

```
## prefix rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#>
## prefix skos: <http://www.w3.org/2004/02/skos/core#>
## prefix prov: <http://www.w3.org/ns/prov#>
## prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#>
## prefix dcat: <http://www.w3.org/ns/dcat#>
## prefix owl: <http://www.w3.org/2002/07/owl#>
## prefix xsd: <http://www.w3.org/2001/XMLSchema#>
## prefix pav: <http://purl.org/pav>
## prefix dc: <http://purl.org/dc/elements/1.1/>
## prefix dct: <http://purl.org/dc/terms/>
## prefix mms: <http://rdf.cdisc.org/mms#>
## prefix cts: <http://rdf.cdisc.org/ct/schema#>
## prefix cdiscs: <http://rdf.cdisc.org/std/schema#>
## prefix cdash-1-1: <http://rdf.cdisc.org/std/cdash-1-1#>
## prefix cdashct: <http://rdf.cdisc.org/cdash-terminology#>
## prefix sdtmct: <http://rdf.cdisc.org/sdtm-terminology#>
## prefix sdtm-1-2: <http://rdf.cdisc.org/std/sdtm-1-2#>
## prefix sdtm-1-3: <http://rdf.cdisc.org/std/sdtm-1-3#>
## prefix sdtms-1-3: <http://rdf.cdisc.org/sdtm-1-3/schema#>
## prefix sdtmig-3-1-2: <http://rdf.cdisc.org/std/sdtmig-3-1-2#>
## prefix sdtmig-3-1-3: <http://rdf.cdisc.org/std/sdtmig-3-1-3#>
## prefix sendct: <http://rdf.cdisc.org/send-terminology#>
## prefix sendig-3-0: <http://rdf.cdisc.org/std/sendig-3-0#>
## prefix adamct: <http://rdf.cdisc.org/adam-terminology#>
## prefix adam-2-1: <http://rdf.cdisc.org/std/adam-2-1#>
## prefix adamig-1-0: <http://rdf.cdisc.org/std/adamig-1-0#>
## prefix adamvr-1-2: <http://rdf.cdisc.org/std/adamvr-1-2#>
## prefix qb: <http://purl.org/linked-data/cube#>
## prefix rrdfqbcrnd0: <http://www.example.org/rrdfqbcrnd0/>
## prefix code: <http://www.example.org/dc/code/>
## prefix dccs: <http://www.example.org/dc/the-domain-name/dccs/>
## prefix ds: <http://www.example.org/dc/the-domain-name/ds/>
## prefix crnd-dimension: <http://www.example.org/dc/dimension#>
## prefix crnd-attribute: <http://www.example.org/dc/attribute#>
```

```
## prefix crnd-measure: <http://www.example.org/dc/measure#>
##
```