

gnr\_resolve

tnrs

tnrs

tnrs <- tnrs(query= splist, getpost="POST", source="iPlant\_TNRS") Removes some fields (splist\_tnrs <- splist\_tnrs[,!n

```
#      submittedName      acceptedName      sourceId score
# 5      Helianthus annuus      Helianthus annuus iPlant_TNRS 0.98
# 1      Pinus contorta      Pinus contorta iPlant_TNRS 0.96
# 7 Collomia grandiflora Collomia grandiflora iPlant_TNRS 0.99
# 6      Rosa californica      Rosa californica iPlant_TNRS 0.99
# 4      Mimulus bicolor      Mimulus bicolor iPlant_TNRS 0.98
# 3      Nicotiana glauca      Nicotiana glauca iPlant_TNRS 1
# 2      Madia sativa      Madia sativa iPlant_TNRS 0.97
```

tnrs

```
# [1] "Helianthus annuus" "Pinus contorta" "Collomia grandiflora"
```

```
# [4] "Rosa californica" "Mimulus bicolor" "Nicotiana glauca"
```

```
# [7] "Madia sativa"
```

tsn(searchterm= splist, searchtype="sciname", verbose=FALSE) comnames <- lapply(tsns, getcommonnamesfromtsn

```
# [1] 3 3 3 3 3 3 3
```

vec <- do.call(c, lapply(comnames, function(x) as.character(x[1, "comname"]))) And we can make a data.frame of four scien

```
#      spname      comname
# 1      Helianthus annuus      common sunflower
# 2      Pinus contorta      lodgepole pine
# 3 Collomia grandiflora      largeflowered collomia
# 4      Rosa californica      California wildrose
# 5      Mimulus bicolor yellow and white monkeyflower
# 6      Nicotiana glauca      tree tobacco
# 7      Madia sativa      coast tarweed
```

clas-

st-

ft-

ca-

tion

col\_classification

list <- classification(tsns) sapply(class\_list, nrow)

```
# [1] 12 11 12 12 12 12 12
```

```
{
```

```
}
```

df <- ldply(class\_list, gethiernames) allnames\_df <- merge(allnames, class\_df, by.x="spname", by.y="Species") Now tha

```
#      spname      comname Kingdom      Subkingdom
# 1 Collomia grandiflora largeflowered collomia Plantae Viridaeplantae
# 2      Helianthus annuus      common sunflower Plantae Viridaeplantae
#      Infrakingdom      Division      Subdivision      Infradivision
# 1 Streptophyta Tracheophyta Spermatophytina Angiospermae
# 2 Streptophyta Tracheophyta Spermatophytina Angiospermae
#      Class      Superorder      Order      Family      Genus
# 1 Magnoliopsida Asteranae Ericales Polemoniaceae Collomia
# 2 Magnoliopsida Asteranae Asterales Asteraceae Helianthus
```

tree(taxa=as.character(allnames

tip.label <- capwords(phylogeny

github("rgbi", "ropensci")

list <- occurrence\_list\_many(as.character(allnames

list(occurrence\_list) + guides(col=guide\_legend(title="", nrow=3, byrow=TRUE)) + theme(legend.position="bottom", legend.l

m.ap.pdf