`netrb` Simulation Demos

Minnesota Roads

Attribute	Value
Vertex Count	2642
Edge Count	3303
Diameter	99
Directed	FALSE

```
## [1] 1 1 1 1 2 3 4
```

```
##      a b
## [1,] 1 1
## [2,] 1 2
## [3,] 1 3
## [4,] 1 4
```

```r
g <- sample_natural_graph('mn')
```

```r
x <- metric_vs_del(
 netrb::integrity,
 # diam = 99,
 # unconn_dist = 100,
 graph = g,
 # del_min = 0.1,
 del_max = 0.5,
 nchunks = 5,
 # del_attrs = 'random',
 vcount_orig = vcount(g),
 del_attrs = c('random', 'degree', 'pagerank')
)

print(plot_Ys_vs_X(x, y_axis_label = 'Integrity'))
```
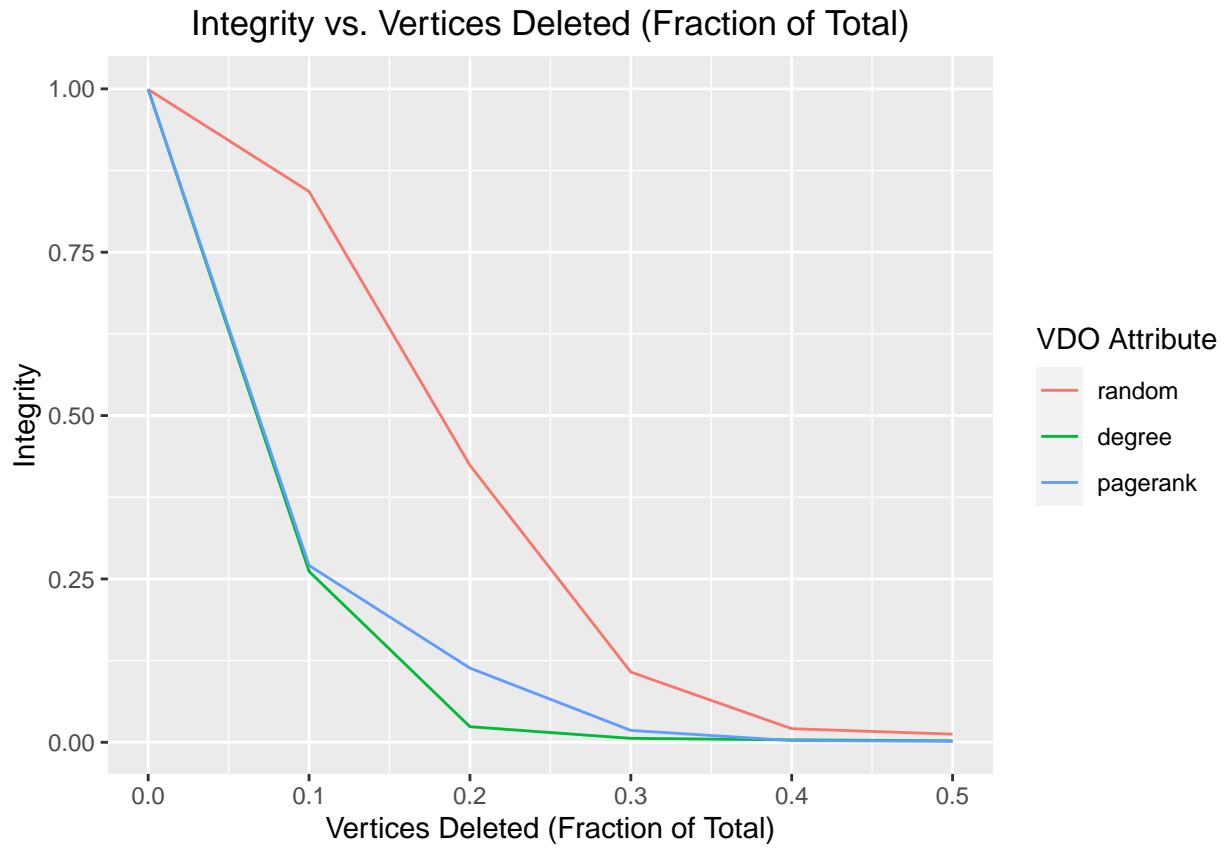
```
##    df[, x_col_idx]    Var2       value
## 1             0.0   random 0.999242998
## 2             0.1   random 0.842922029
## 3             0.2   random 0.423921272
## 4             0.3   random 0.107494322
## 5             0.4   random 0.020817562
## 6             0.5   random 0.012490537
## 7             0.0   degree 0.999242998
## 8             0.1   degree 0.261544285
## 9             0.2   degree 0.023845572
## 10            0.3   degree 0.006056018
## 11            0.4   degree 0.003785011
```

```
## 12             0.5   degree 0.002271007
## 13             0.0 pagerank 0.999242998
## 14             0.1 pagerank 0.270628312
## 15             0.2 pagerank 0.113550341
## 16             0.3 pagerank 0.018168055
## 17             0.4 pagerank 0.002649508
## 18             0.5 pagerank 0.001514005
```

Integrity vs. Vertices Deleted (Fraction of Total)


```
## [1] "a" "b"
```