7/26/2019 README.md

```
wikipedia-rankings
 2
 3
   Support files for [TIME's ranking of the prominent people on Wikipedia]
    (https://time.com/109947/web-ranking/).
 5
   Data was collected over several days in May using [node-wikipedia]
    (https://www.npmjs.org/package/node-wikipedia), a Node.js module maintained by
    [@wilson428](https://github.com/wilson428).
7
   We considered eight data points for each entry:
8
9
10
   + Number of words
   + Number of links to other Wikipedia pages
11
12
   + Number of external links (which are typically references)
   + Number of categories the person is in
13
   + Total number of revisions to the page
14
   + Number of unique individuals who have edited the page as a signed-in editors
   + Number of anonymous edits
16
17
   + Number of vandalisms, as identified in editing notes
18
19
   Data for the top 100,000-or-so people is available as a <a href="[15MB CSV file">[15MB CSV file</a>](/people.csv).
20
   ## Analysis
21
22
23
   Using out-of-the-box R functions, we reduced these eight variables to their principal
    components (using [this handy guide](http://little-book-of-r-for-multivariate-
    analysis.readthedocs.org/en/latest/src/multivariateanalysis.html#principal-component-
    analysis)). As you can see, a huge amount of the variance is contained in the first PC:
24
    ![variance](https://raw.githubusercontent.com/TimeMagazine/wikipedia-
25
    rankings/master/variance.png)
26
27
   You can rerun the principal component analysis like so:
28
29
        RScript wikipedia.r
30
31
    (This may require installing the relevant libraries first).
32
    By trial and error, the ranking that most satisfied our anecdotal sense for "influence" in
33
    the real world was PC1 + PC2, which becomes the `score` for each person.
```