

```
In [100]: %%javascript
/*****
*****
Known Mathjax Issue with Chrome - a rounding issue adds a border
to the right of mathjax markup
https://github.com/mathjax/MathJax/issues/1300
A quick hack to fix this based on stackoverflow discussions:
http://stackoverflow.com/questions/34277967/chrome-rendering-mat
hjax-equations-with-a-trailing-vertical-line
*****
*****/

$('.math>span').css("border-left-color","transparent")

%reload_ext autoreload
%autoreload 2
```

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```
In [9]: #!head Downloads/enrollments.txt
```

HW2.0.

What is a race condition in the context of parallel computation? Give an example.

Race condition is when a different component of the program/computation have multiple dependencies. For example: In Map Reduce, the program needs to finish processing data through mappers before it can execute the reducers.

What is MapReduce? How does it differ from Hadoop?

Map Reduce is a programming model for large scale parallel processing of Data Hadoop is an open source implementation of Map Reduce. Map reduce is a componenet of hadoop, but you could use map reduce framework with unix commandline as well.

```
In [15]: !mkdir WordCount
          #%cd WordCount

          /home/cloudera/WordCount
```