Read the following three articles and watch some videos from theYouTube channel “This is Statistics”, and write a short report talking about your idea of Statistics within 800 words. Print it andsubmit it next Wednesday (1/20/2016) to earn 5 extra points.

1. For Today’s Graduate, Just One Word: Statistics
2. Data, data everywhere
3. The Age of Big Data
4. This is Statistics

<http://www.nytimes.com/2009/08/06/technology/06stats.html?_r=0>

Notes:

- “one of many who are changing the image of the profession”

- “I keep saying that the sexy job in the next 10 years will be statisticians,” said Hal Varian, chief economist at Google. “And I’m not kidding.”

 - “But the big problem is going to be the ability of humans to use, analyze and make sense of the data.”

* Google, IBM, our Government, everyone seems to be thinking statistics as a valuable skillset to have.
* With a serge of data, from surveillance footage to internet searches, the real issue isn’t going to be having data to generate knowledge, but making sense of all the data available for a general conclusion.

<http://www.economist.com/node/15557443>

Notes:

-140 terabytes of telescope information, 40 billion photos,

-All these examples tell the same story: that the world contains an unimaginably vast amount of digital information which is getting ever vaster ever more rapidly

-Oracle,IBM,SAP, and Microsoft all spent over $15 million in data analytics last year

-This large amount of data can be turned into intelligence

<http://www.nytimes.com/2012/02/12/sunday-review/big-datas-impact-in-the-world.html>

Notes:

-fields as varied as science and sports, advertising and public health, and many more collect big amounts of data which needs to be analyzed to make sense of it.

-big data means more analysis

-not only statistics is growing because data is growing, but computer science is growing as well: “The wealth of new data, in turn, accelerates advances in computing — a virtuous circle of Big Data. Machine-learning algorithms, for example, learn on data, and the more data, the more the machines learn”

Look up videos on: *This is Statistics.*

Notes:

-Statistics really has no limits. The main take away from the videos I watched, aside from being incredibly entertaining is: There really is no limit on what you can do with statistics, whether it’s studying MMA Fighters for how many hits in the head leads to brain injury, predicting song writers based on lyrics, or studying social patterns to predict high probability crime areas, there really is no limit.