

## Jan 29 Readings

### Jan 29 - Indexing and Filtering

**1. Why Index?** <https://www.youtube.com/watch?v=OYZNk7Z9s6I>: Here a video that further reinforces the idea of indices and why we need them. This is important to understand especially before we start dealing with loc and iloc functions (and grouping/aggregating data in the future).

**2. Pandas API on Indexing and Selecting:** <https://pandas.pydata.org/pandas-docs/stable/indexing.html>: It is a good practice to start looking at the API documentation. Most documentations (for most languages) are just painful to look at. (No wonder sites like StackOverflow are so famous) but Pandas has some decent docs with good examples. I don't expect you to jump in and do all the examples. But definitely go over it and see what all functions are present in the API.

**3. loc and iloc tutorial:** <https://www.shanelynn.ie/select-pandas-dataframe-rows-and-columns-using-iloc-loc-and-ix/> This is a small blog post. I do expect you to do the examples here.

## Jan 31 Readings

### Grouping and Aggregating Data

**1. Summarizing, Aggregating and Grouping Data:** <https://www.shanelynn.ie/summarising-aggregation-and-grouping-data-in-python-pandas/> This is a well written blog post. Quite self-explanatory. I would recommend that you try these examples. It would only build up your confidence. Once again, the only way to really learn is to jump in and start writing some code.

**2. Grouping Data in Pandas:** <http://blog.yhat.com/posts/grouping-pandas.html> Another nice blog with good examples.

**3. Grouping and Aggregating:** <http://wesmckinney.com/blog/groupby-fu-improvements-in-grouping-and-aggregating-data-in-pandas>

Here is a blog from the early days of Pandas back in 2011. I haven't yet tried all the examples in this blog so adding it here with some skepticism. If I find it obsolete, I will replace this by another article/blog on Thursday night.