

# Bioinformatics Topics

Informatics

Biology

Operating  
Systems



Windows, Macintosh both offer an intuitive GUI ... familiarity can be assumed?

Linux with a Windows like GUI interface ... also, familiarity can be assumed?

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Linux command line! ... complexity is overstated, but some instruction is required.

All OS options are conceptually identical ... enabling control over files, folders, and programs.

Linux command line! ... **the only option** for compute intense software.



Rarely is there a need to become a truly proficient programmer.

**BUT** - Sufficient skill to affect basic management of large datasets is important.

**AS IS** - Sufficient skill to construct simple customised pipelines.

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Python is currently the most popular Programming Language for Bioinformatics.

Minimal programming skill levels  
would allow:

The construction of small programs.  
The understanding of slightly larger programs.  
Ability to convey program specifications to a specialist.

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Statistics



**A basic understanding of Statistics is just as vital when designing an experiment.**



“To call in the statistician after the experiment is done may be no more than asking him to perform a post-mortem examination: he may be able to say what the experiment died of.”

**As it is when large datasets need to be interpreted, which sensibly demands a working familiarity with a quality Statistical Package.**

**Bioinformatics software commonly employs statistics to select the most probable answer from a set of many possible answers to a given question.**

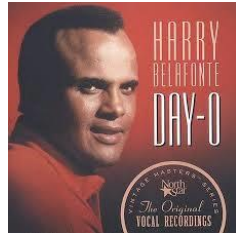
*End of Part 1*

# BREAK!

More to come I fear ... but time for a swift cup of tea perchance?

Maybe time for a short jig? The whistling of a merry tune?

Or, mayhap, a delving into the melodic possibilities of youtube?  
There be much good stuff there ... I offer you a few of my favourites.



Once fully refreshed .... Click on mon braves!

