De novo genome assembly

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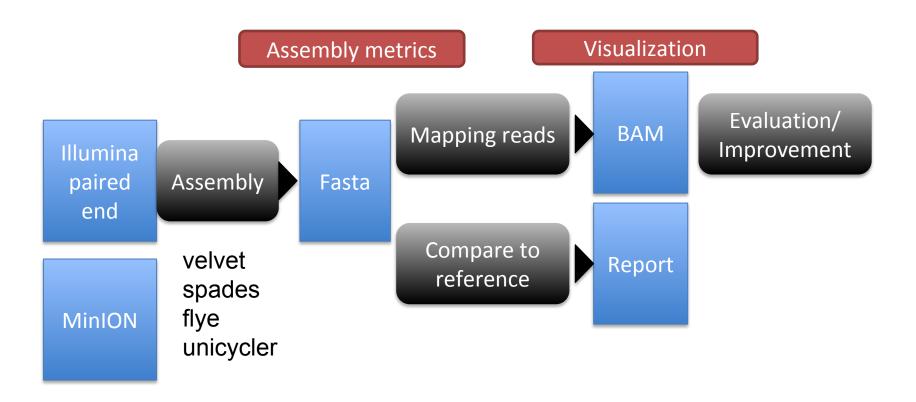
What are you going to learn

- Principles of genome assembly
- Running a few different programs
- Look at the effect of choice of program and dataset
- Evaluating assemblies
- Visualising assemblies

Learning goals

- Understand basic principles of genome assembly
- Be able to run assemblies using a small variety of programs and dataset
- Be able to evaluate assemblies and compare them

How are you going to learn it



Assembly exercise

Problem:

- You will get access to a file with «reads» on them
- These are from the same text, but with some errors
- Goal: create sentences from these reads

Task:

- Gather in groups of three, and go into breakout
- Try to assemble the reads
- Keep track of your longest sentence
- Describe what you did to get your result