Outline

What is de novo assembly?

CGE Assembler web-tool

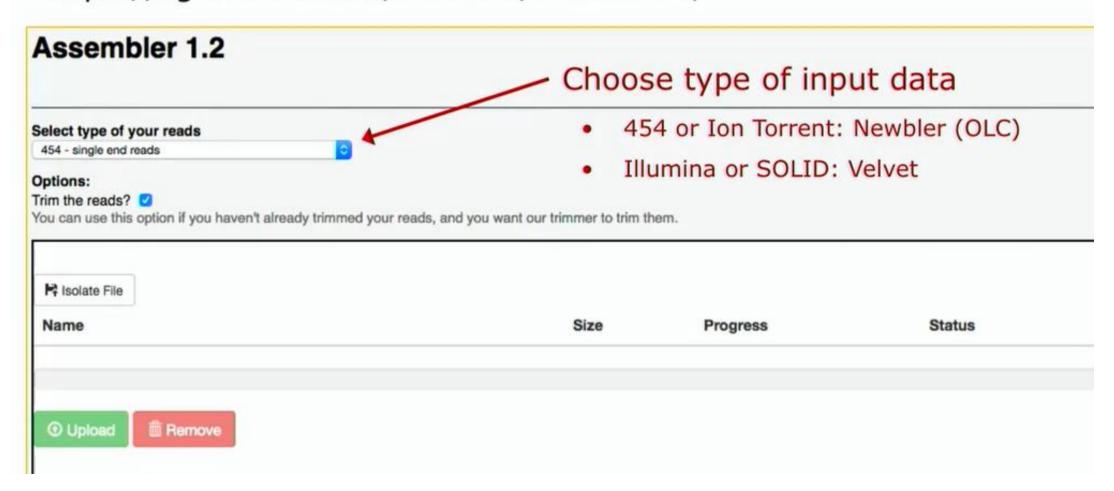
Handling the output

What is de novo assembly?

- It is not reference based...
- CGE Assembler
 - Velvet: De Bruijn Graph
 - Newbler: Overlap Layout Consensus (OLC)
- Remember: Assemblers are far from perfect!

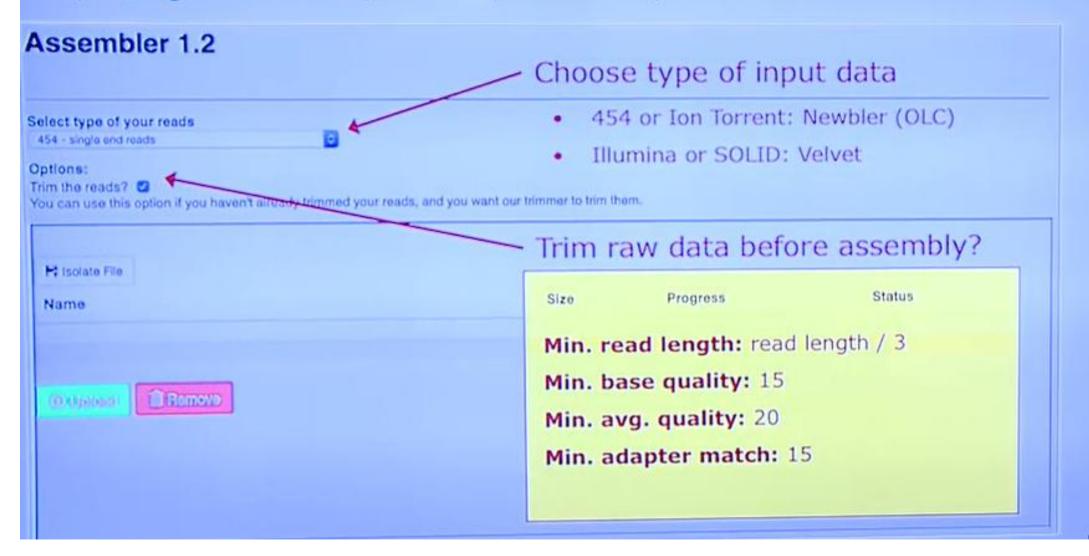
CGE Assembler

https://cge.cbs.dtu.dk/services/Assembler/



CGE Assembler

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Assembler-1.0 Server - Results

Input Files: Styph-0808F31478_3_1_sequence.txt Styph-0808F31478_3_2_sequence.txt

CONTIGS INFO

Technology: Illumina Paired Ends Reads

N50: 201079

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Final note

Most CGE tools are assembly based

All assembly based tools use the CGE Assembler

Optimize your jobs: Do one assembly

Bacterial analysis pipeline: https://cge.cbs.dtu.dk/services/cge/