



**Understanding  
(Meta)genomic **read**  
**recruitment****



**The nature of the data**

**Small things matter**

**Read recruitment**

**Seeing the obvious**

**Seeing the subtle**

**Genome resolved perspectives**



**> The nature of the data**

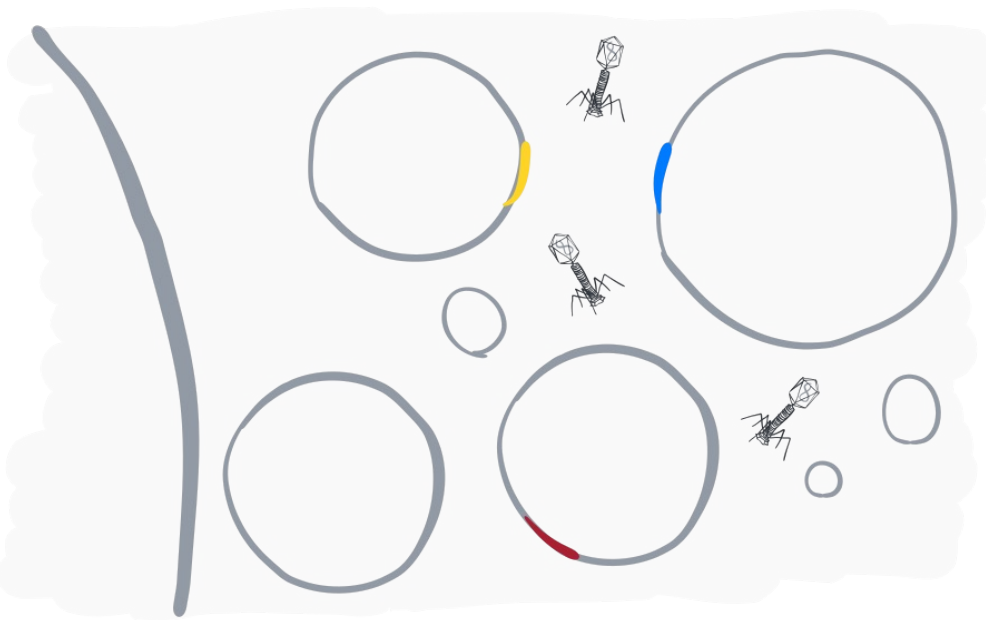
**Small things matter**

**Read recruitment**

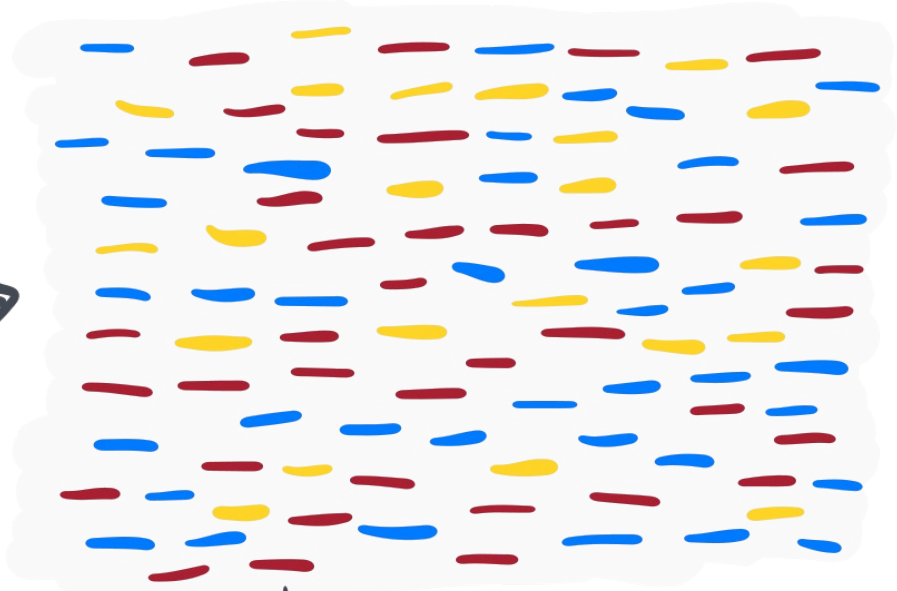
**Seeing the obvious**

**Seeing the subtle**

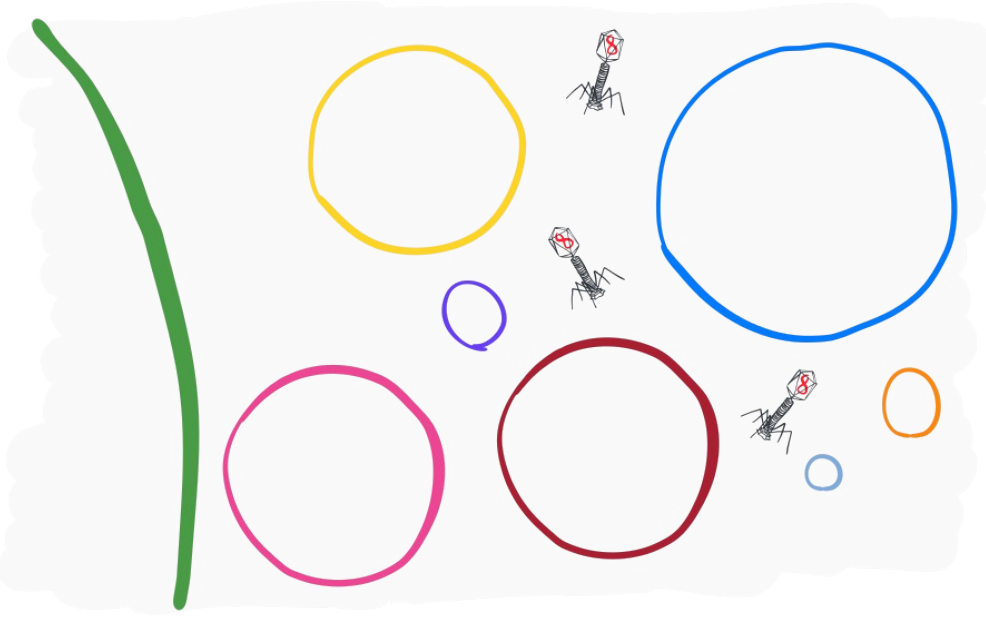
**Genome resolved perspectives**



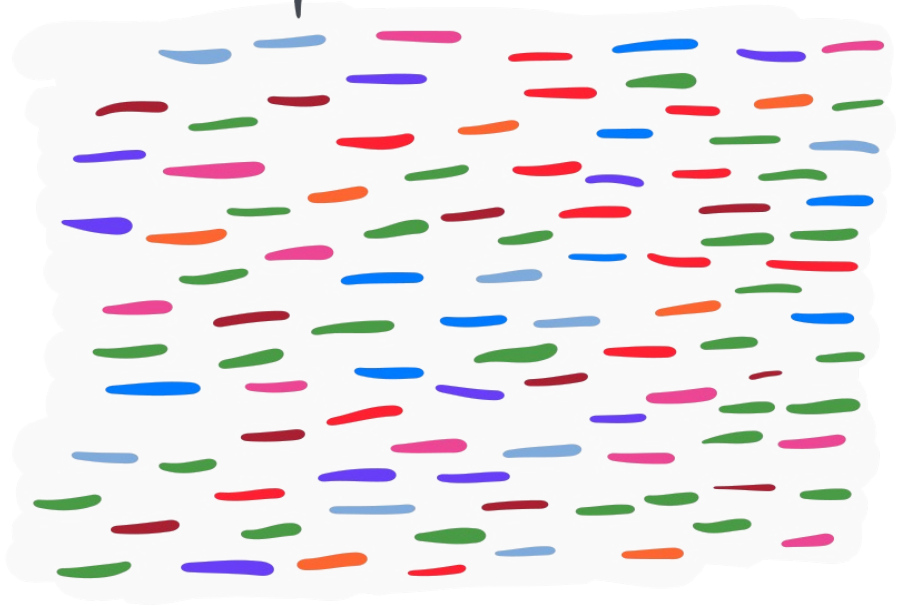
AMPLICON  
SEQUENCING →



AMPLICONS ↙  
↘ METAGENOMIC SHORT READS



SHOTGUN  
SEQUENCING →







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**(a short side-story on Wolbachia – please watch  
the presentation)**



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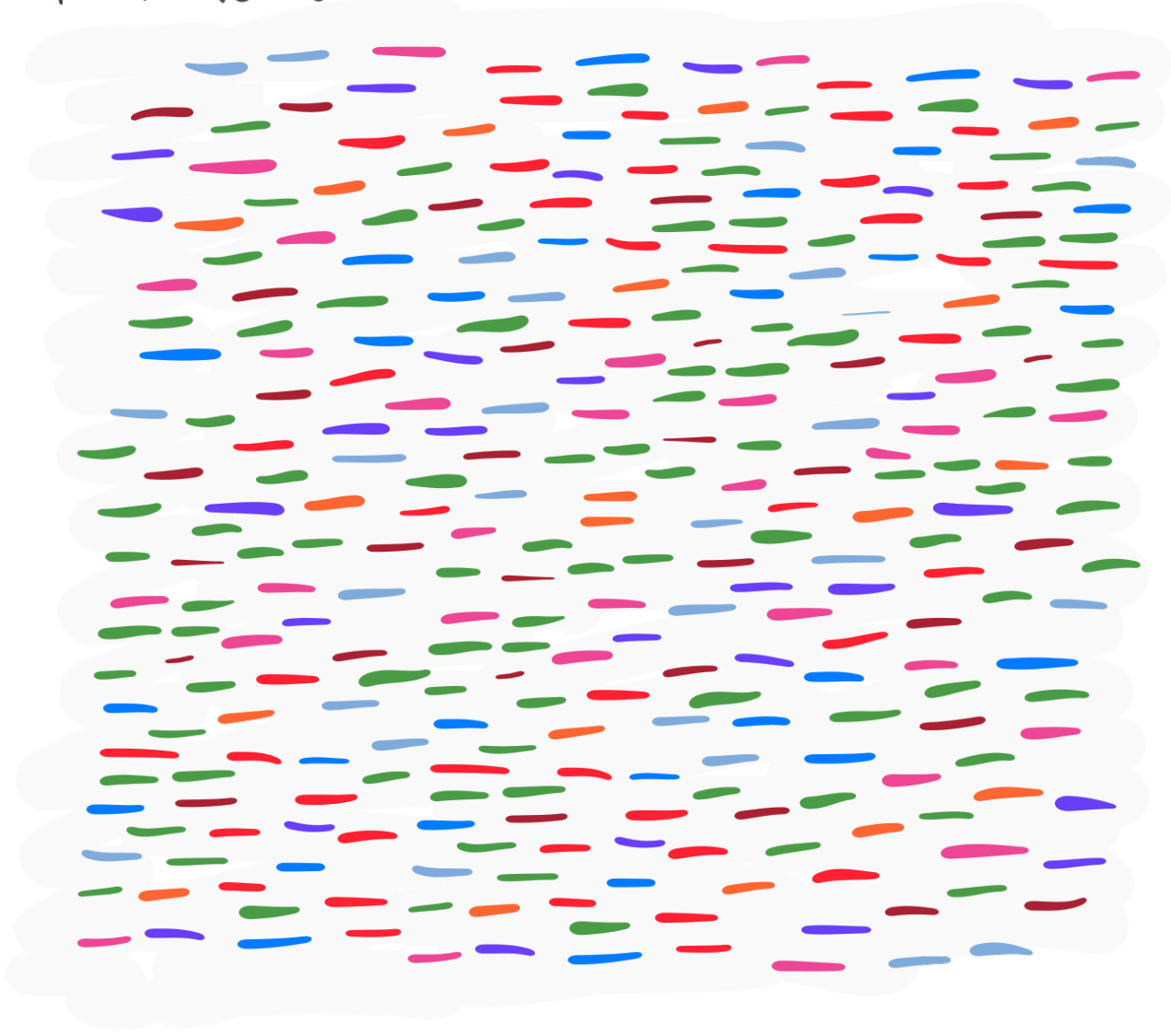
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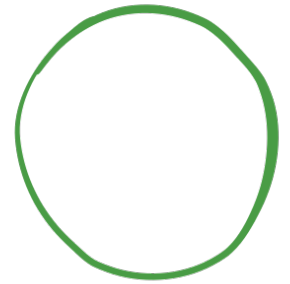
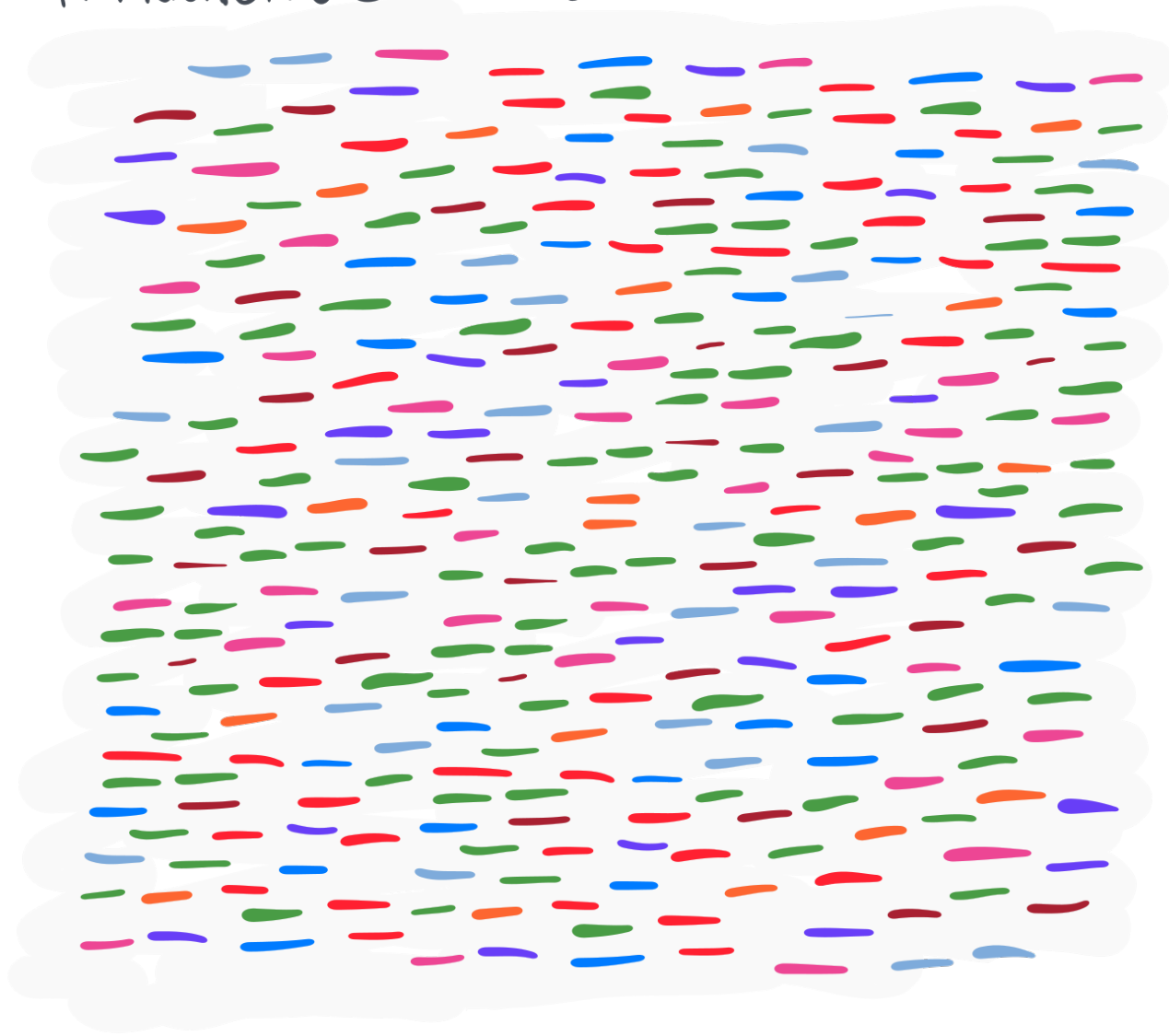
**Genome resolved perspectives**

# METAGENOMIC SHORT READS

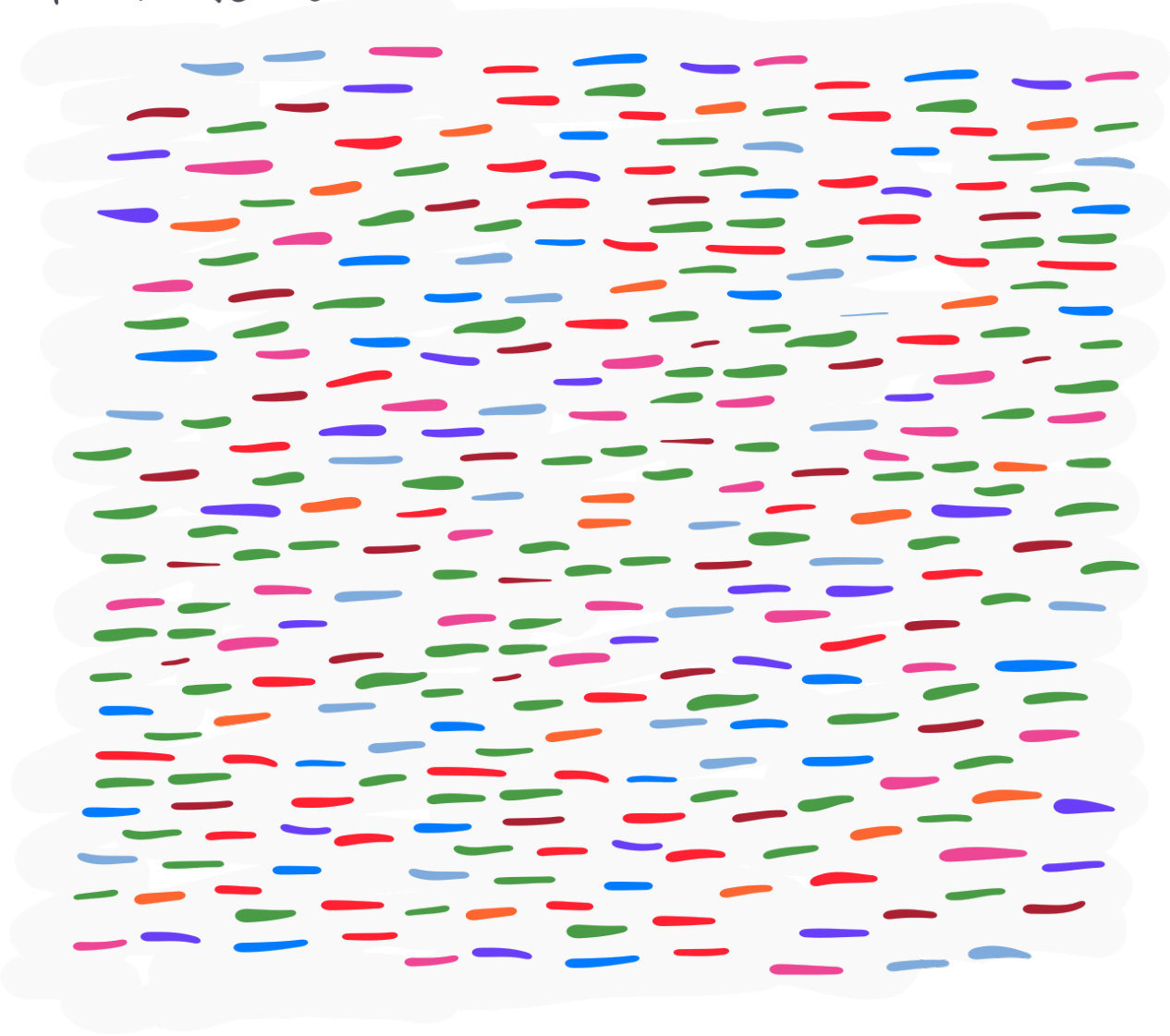




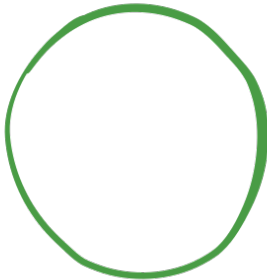
# METAGENOMIC SHORT READS



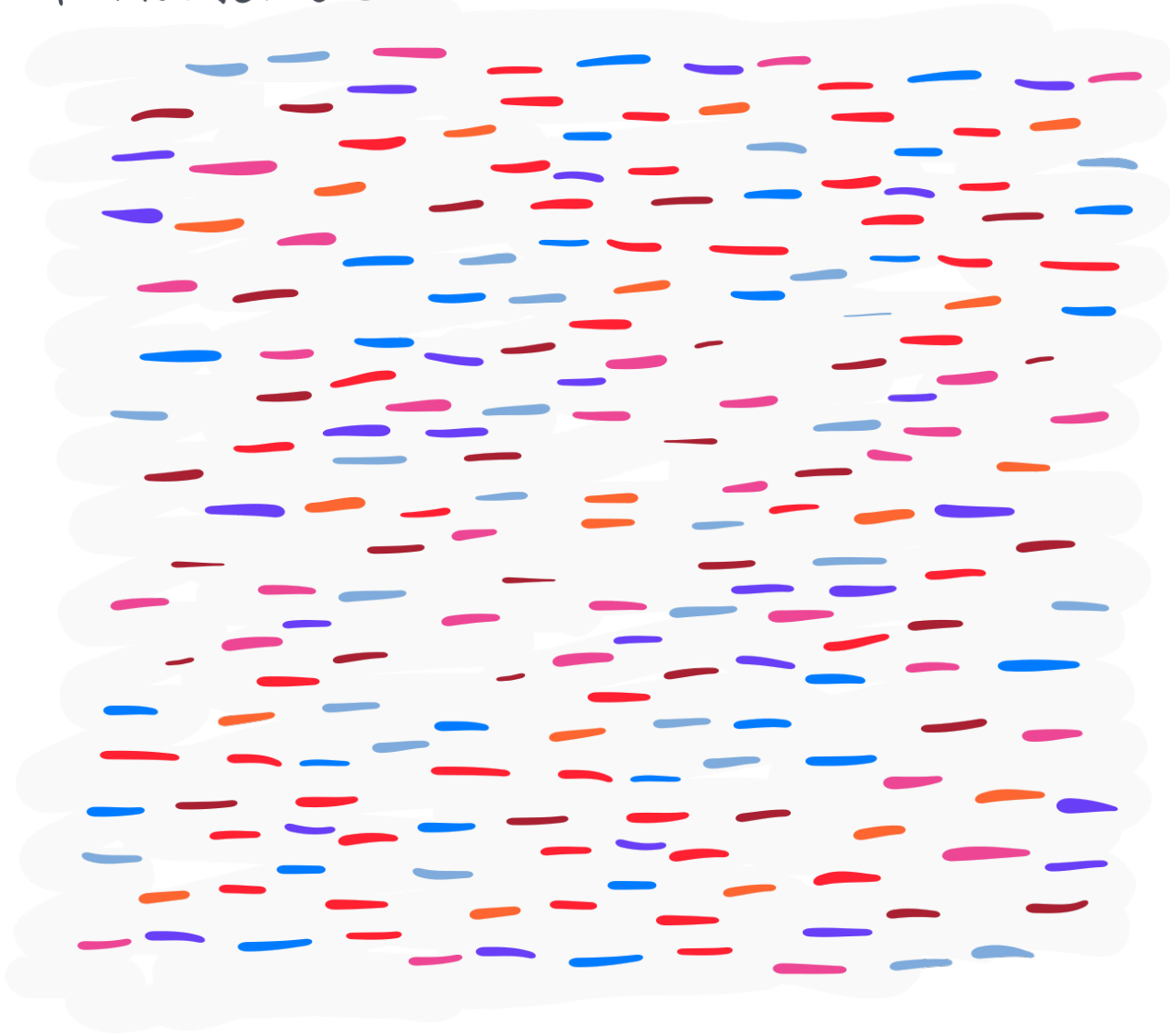
# METAGENOMIC SHORT READS



READ  
RECRUITMENT →



# METAGENOMIC SHORT READS



READ  
RECRUITMENT →





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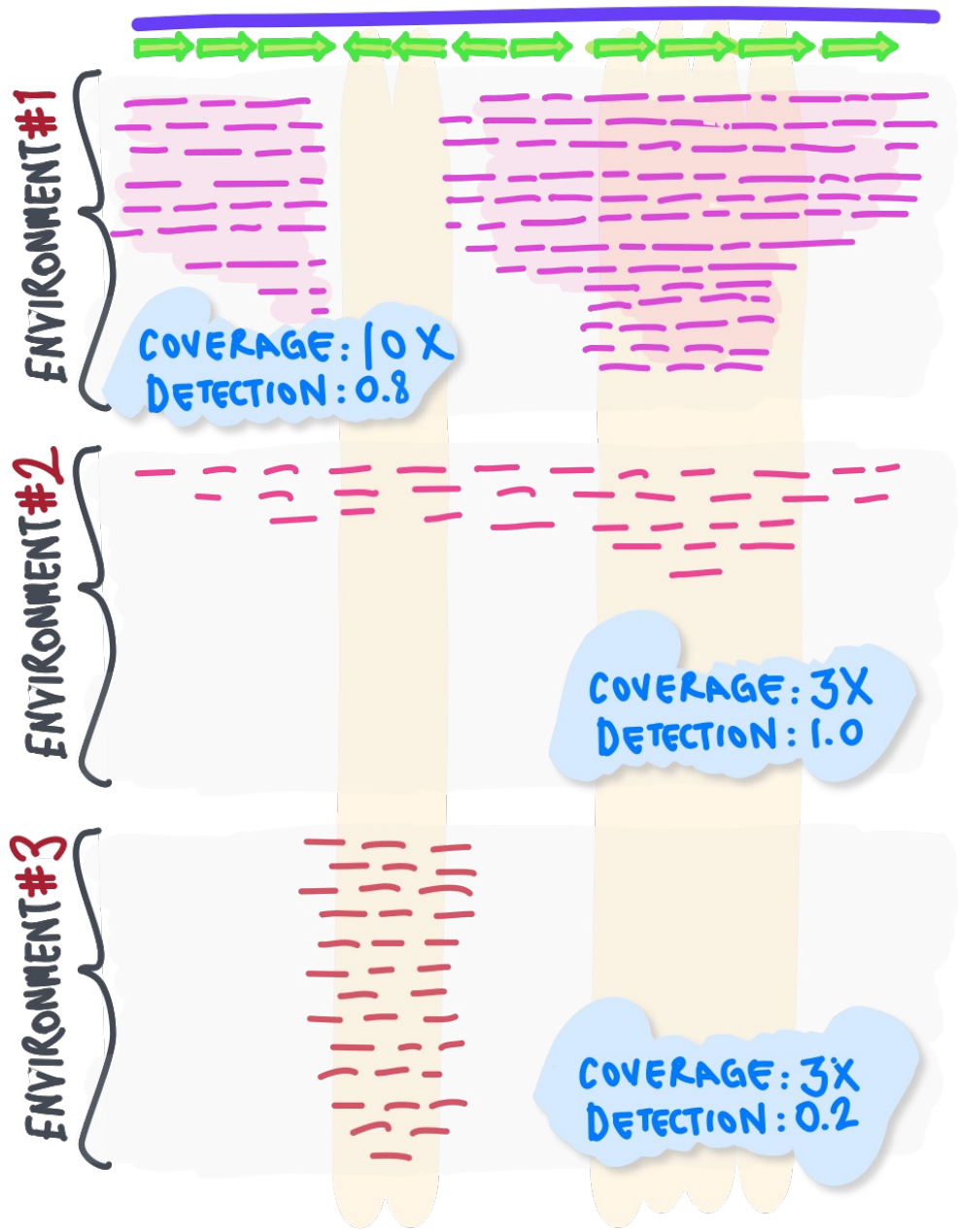
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# METAGENOMIC READ RECRUITMENT

## A REFERENCE CONTEXT







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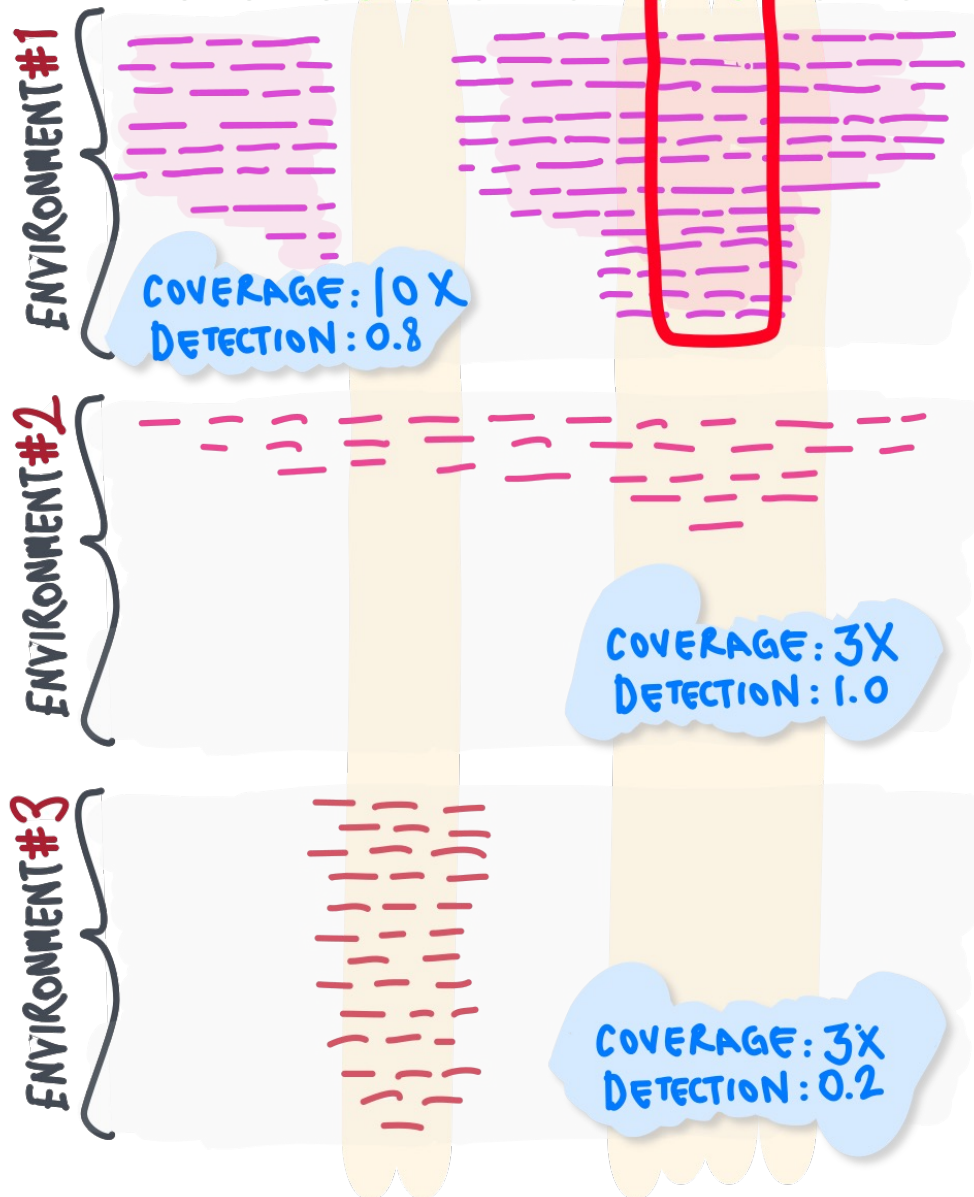
**Read recruitment**

**Seeing the obvious**

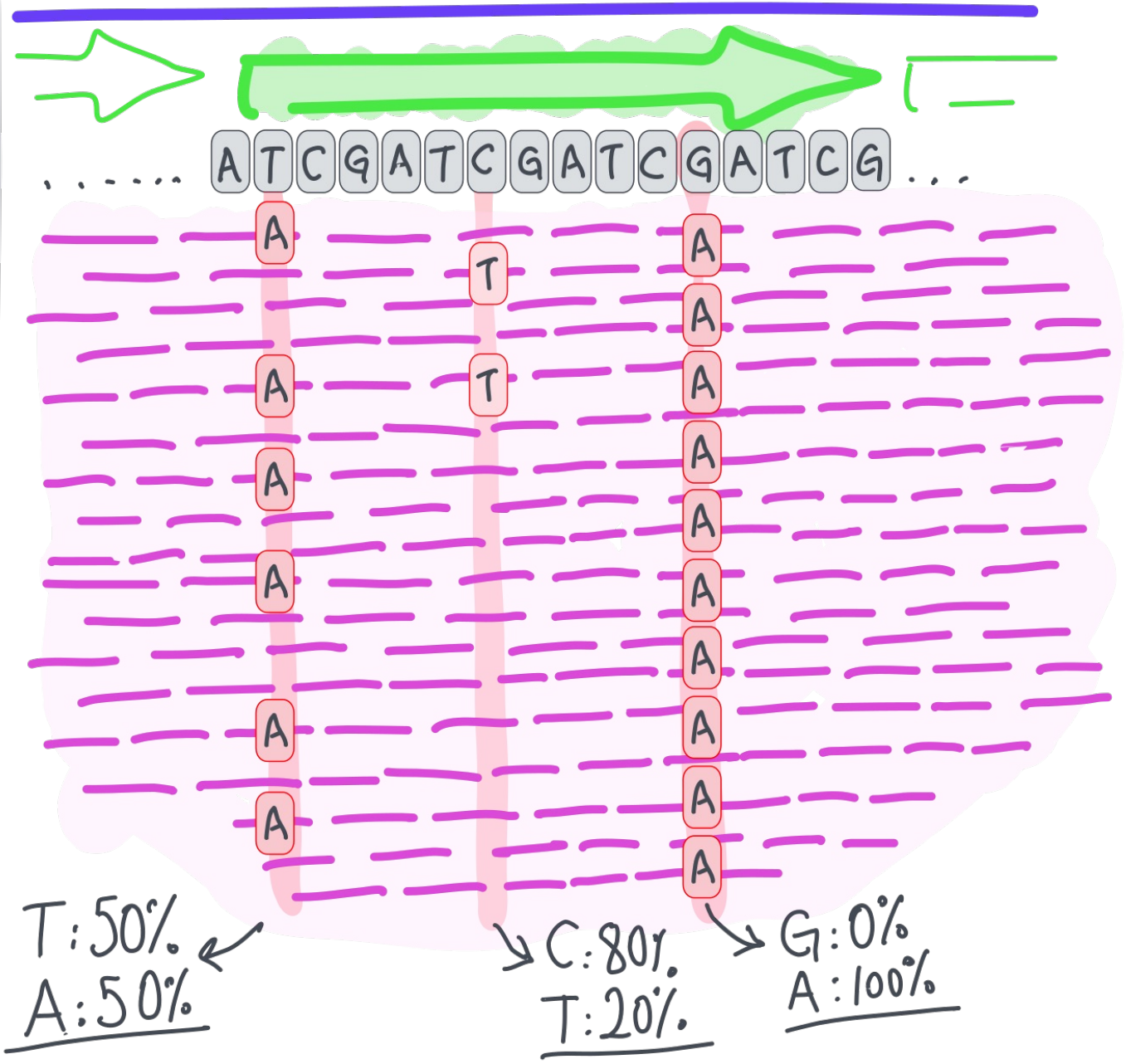
**> Seeing the subtle**

**Genome resolved perspectives**

# A REFERENCE CONTEXT



# METAGENOMIC READ RECRUITMENT



The background features the word "omics" in a large, stylized font. The letters are primarily black with a thick, red, brush-stroke-like outline. The 'o' is a simple circle, while the 'm', 'i', 'c', and 's' have more complex, calligraphic shapes. The red outline is semi-transparent, allowing the black letters to show through.

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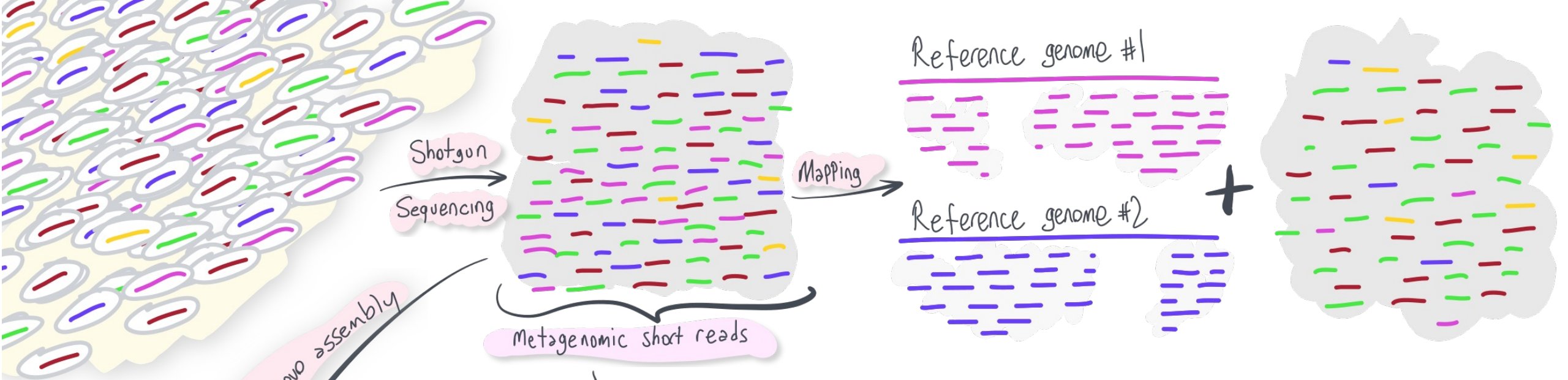
**Read recruitment**

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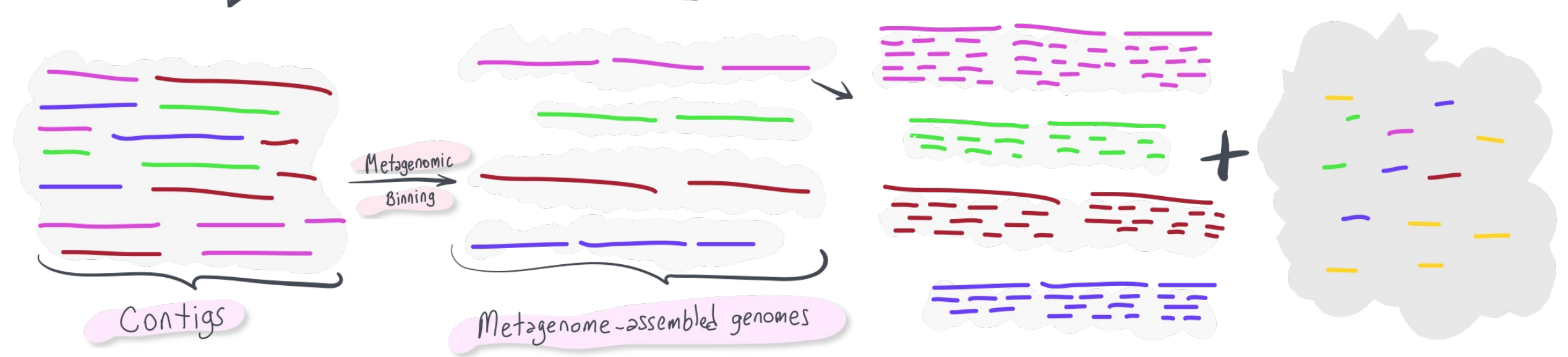
**> Genome resolved perspectives**





De novo assembly

# GENOME RESOLVED METAGENOMICS



The background features the word "Omicrons" in a large, stylized font. The letters are primarily a dark red color with a glossy, 3D effect. The letter 'O' is notably larger and rendered in a solid black color. The overall aesthetic is modern and scientific.

**What's Next?**

**Consider an exercise on  
metagenomic read  
recruitment!**



**Omics**

<https://merenlab.org/tutorials/read-recruitment/>