



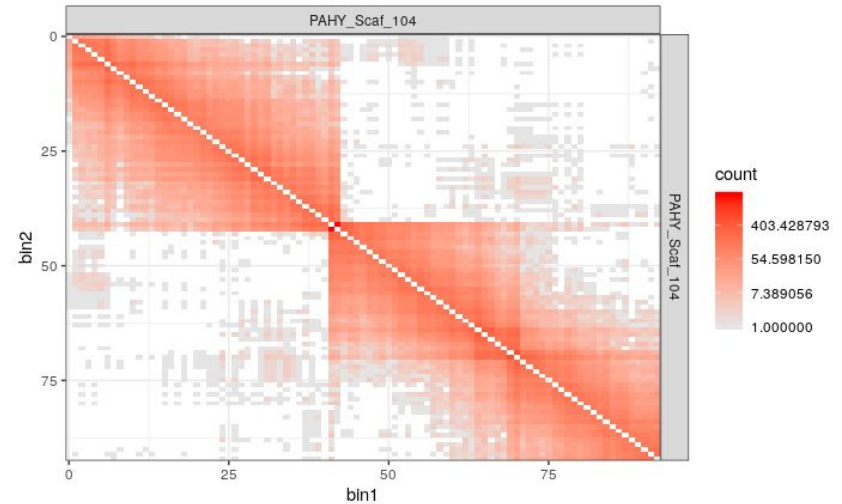
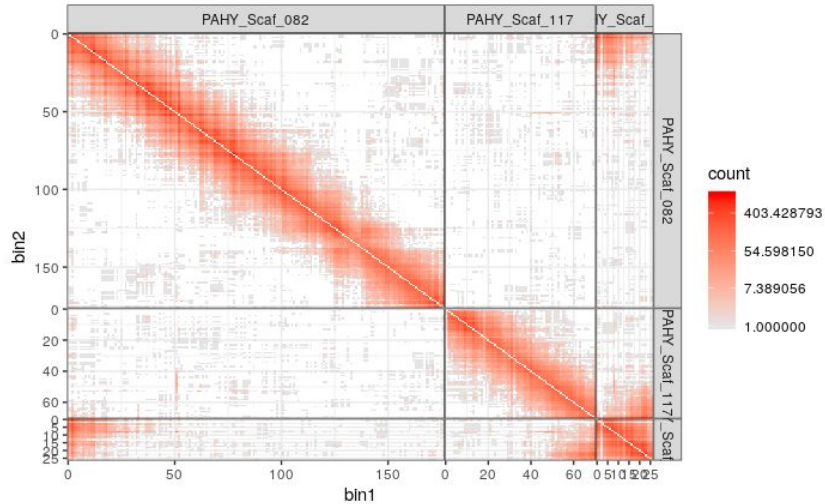
Du scaffolding

Biopuces

1^{er} octobre 2020

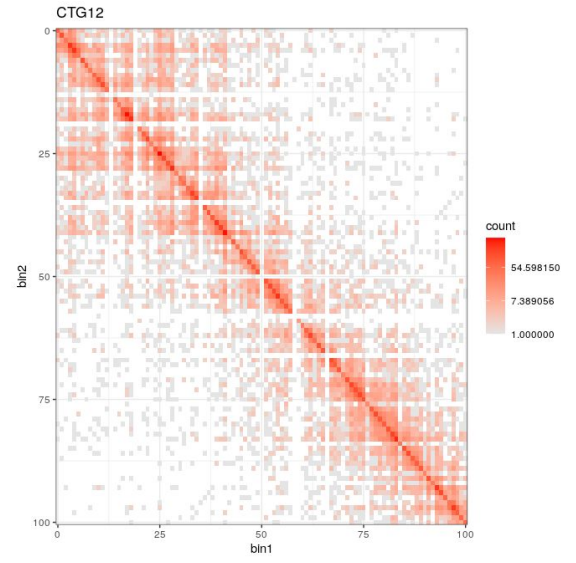
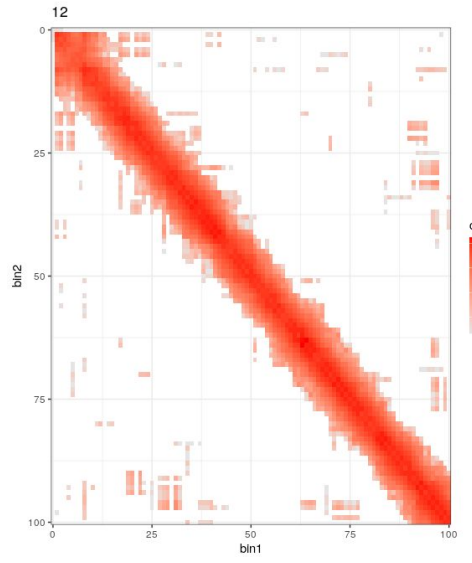
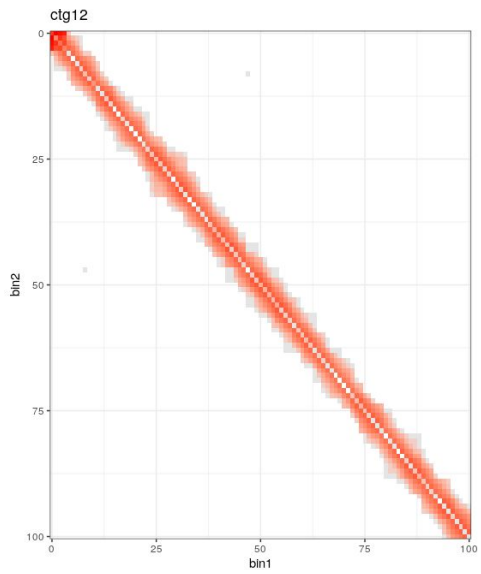
Principe du scaffolding

Utiliser les différentes technologies pour trouver des erreurs d'assemblage, et faire un scaffolding.



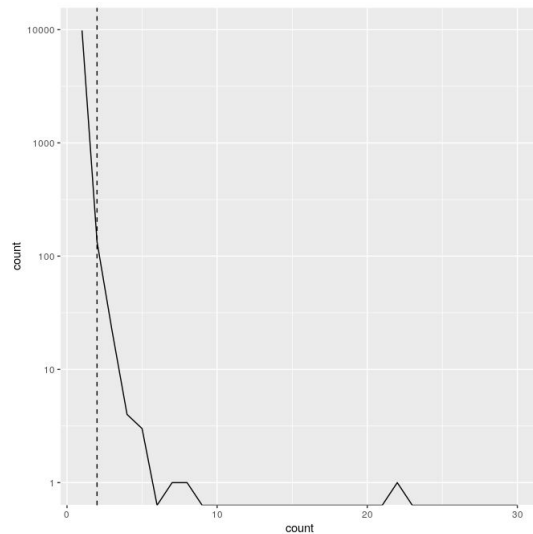
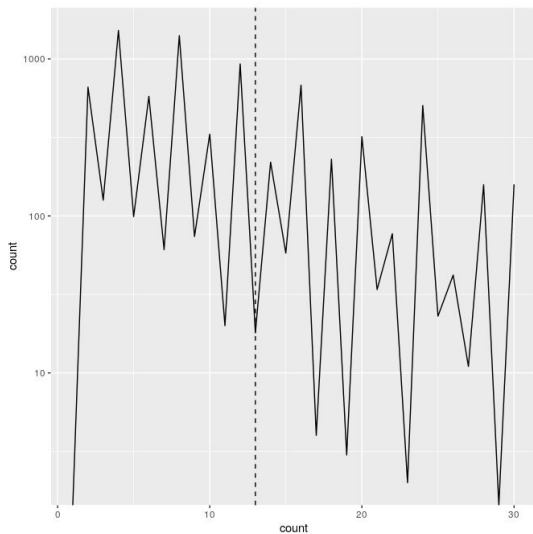
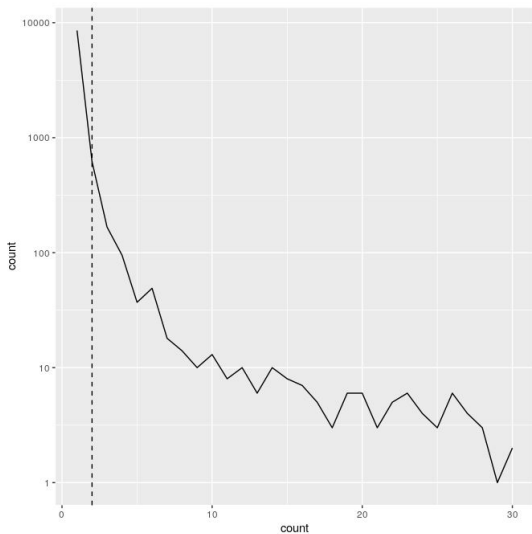


Données: ONT, 10X, Hi-C (bin = 10kb)



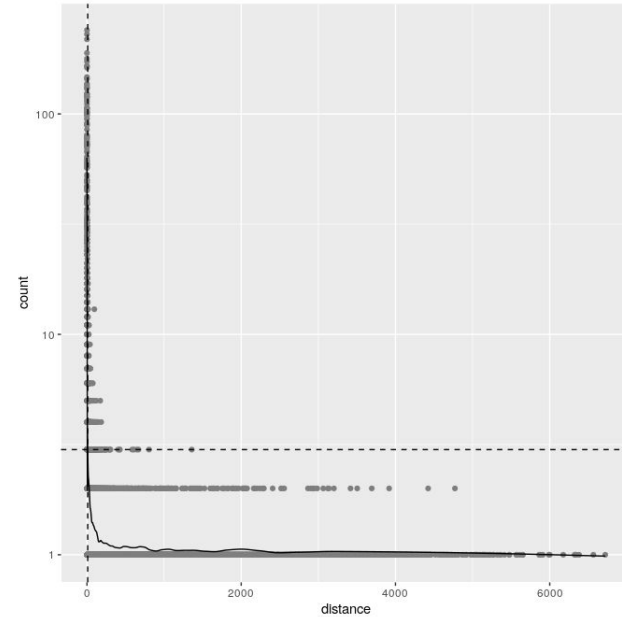
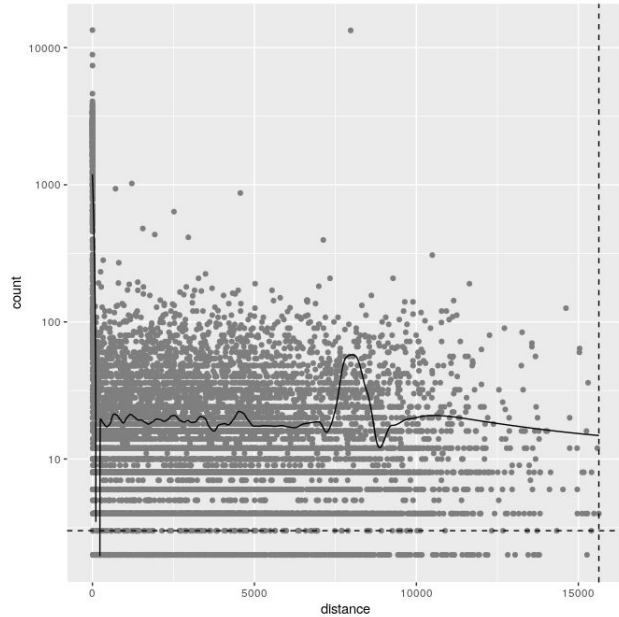


Estimation de l'intensité "background"



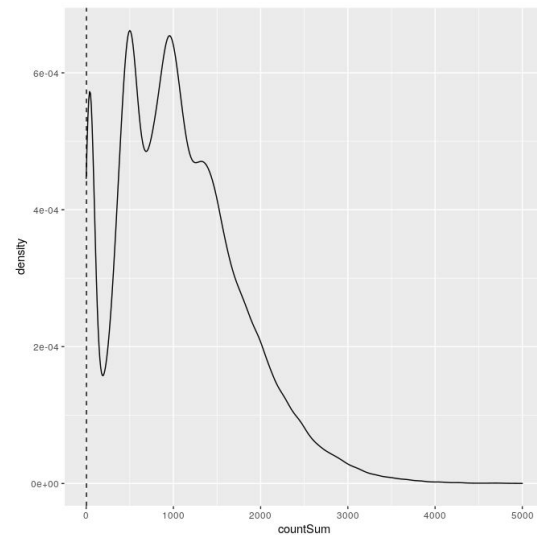
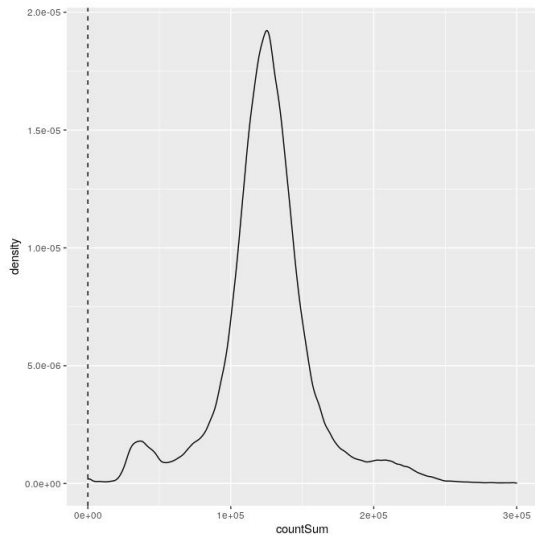
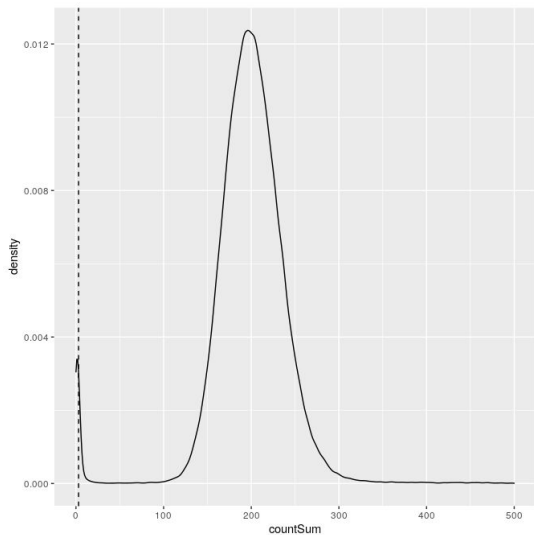


Estimation de la taille des molécules





Estimation de l'intensité par bin



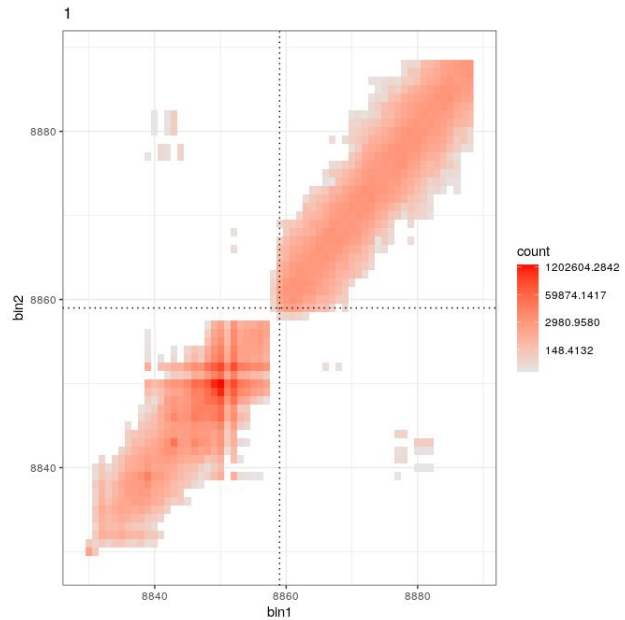
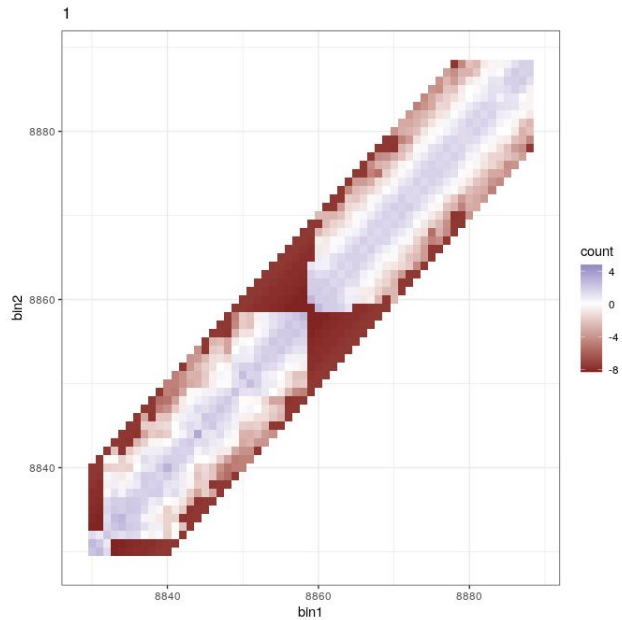


Etapes

- Nettoyage des matrices:
 - Suppression des faibles comptages
 - Suppression des faibles bins
 - Suppression des petits contigs
- Normalisation:
 - Knight-Ruiz
 - Normalisation par rapport à la diagonale (loess)
- Découpage des contigs
- Scaffolding (pour l'instant, méthode naïve)

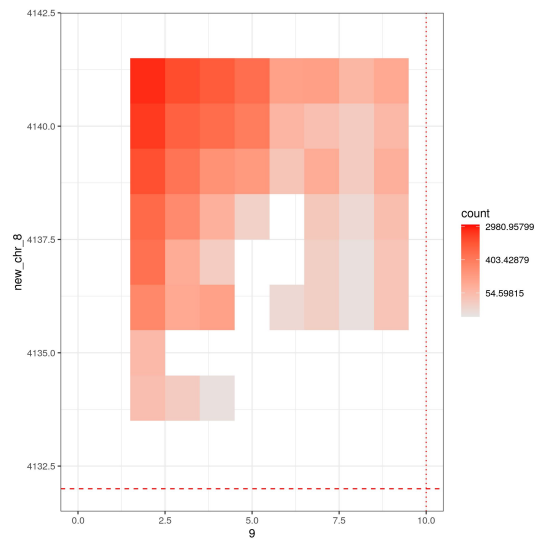
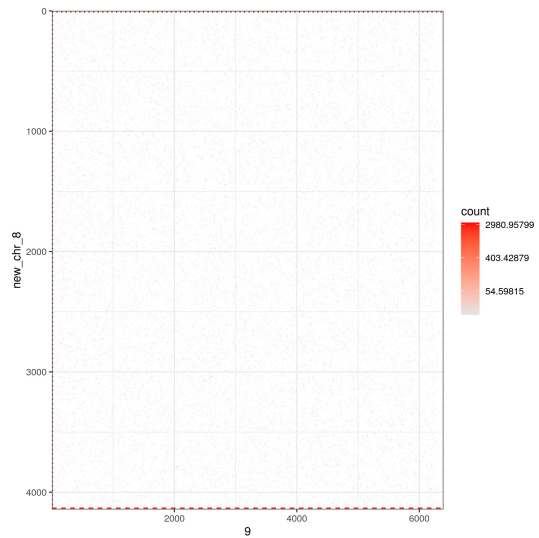
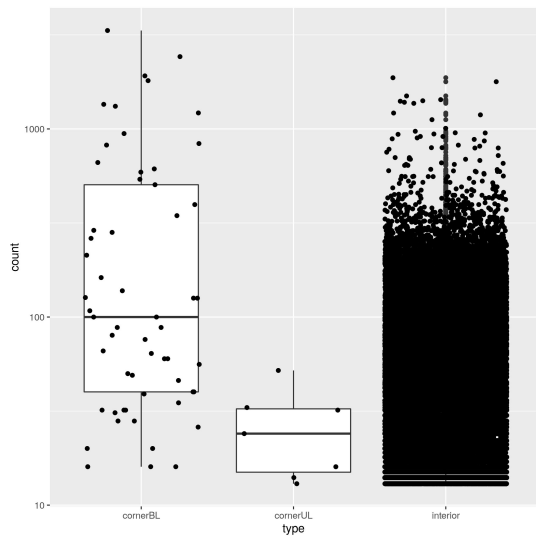


Breaks





Join





À faire

- Correctement estimer les paramètres.
- Intégrer correctement les données différentes.
- Faire un package qui tienne la charge.