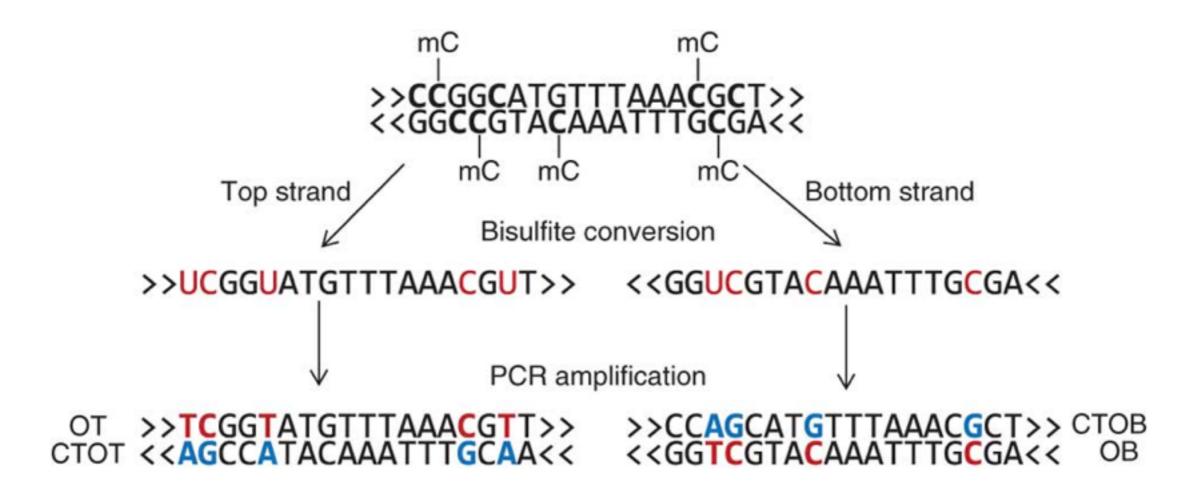
BiohackUdeM

Team #Meth (and then #SVM)

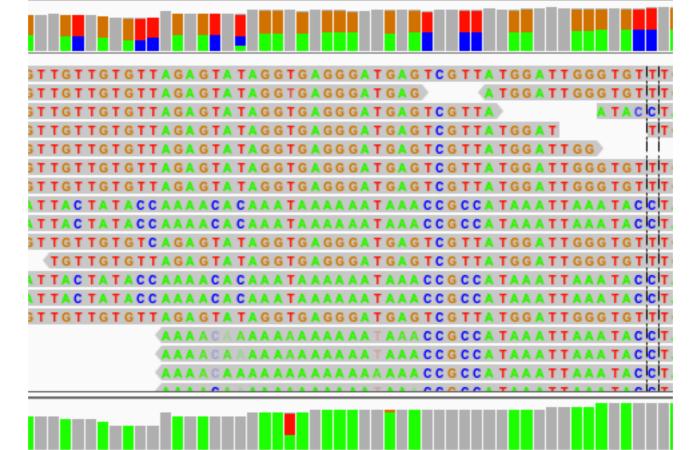
Méthylation



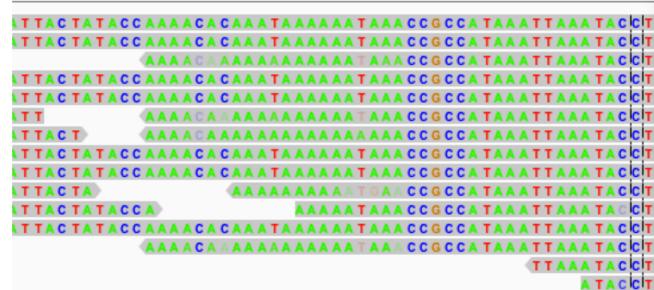


>>CCAGCATGTTTAAACGCT>> CTOB
<<GGTCGTACAAATTTGCGA<<

All OT, CTOT, CTOB, OB



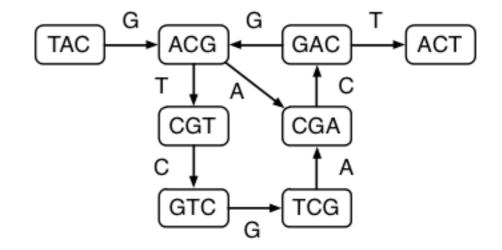
Forward ot, ctot



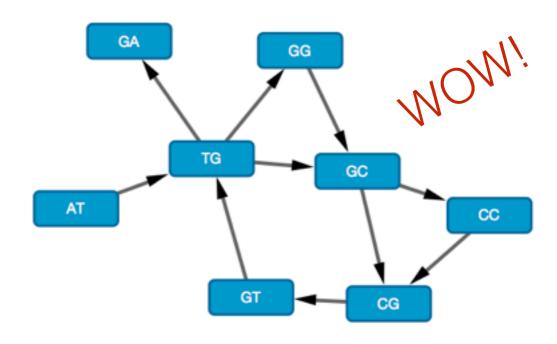
Détection de SNV sans alignement



bubulles



De Bruijn graph



Nouvelle idée



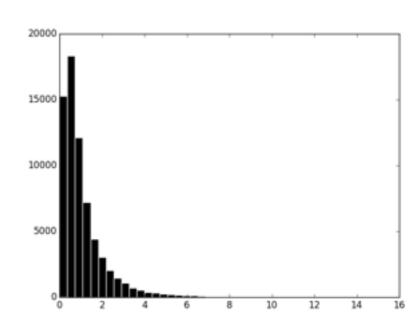




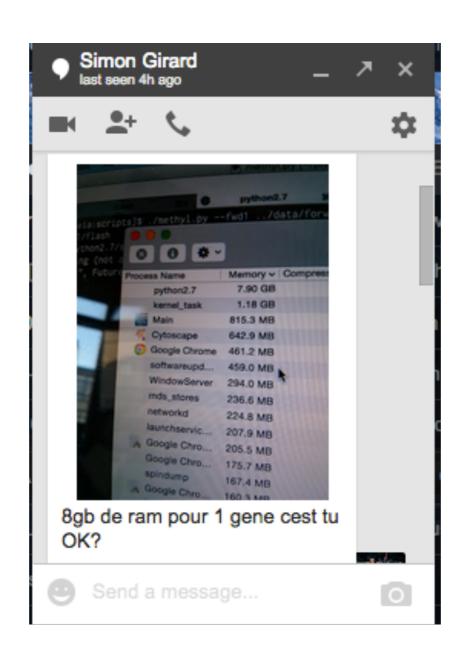
Velvet

Sequence assembler for very short reads

Identification de contigs *fwd* et *rev* "homologues"



à 8h a.m.



Classification

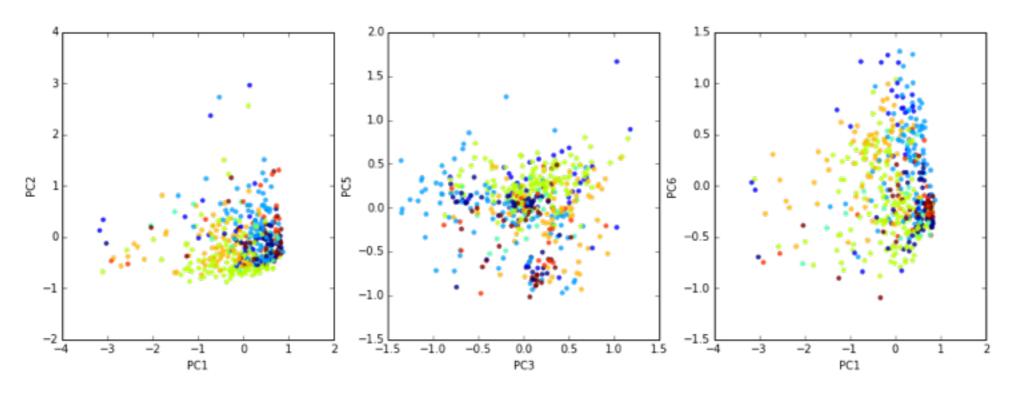
- 8 tissus (outcome)
- Gènes porteurs de SNV, insertions et délétions (prédicteurs)

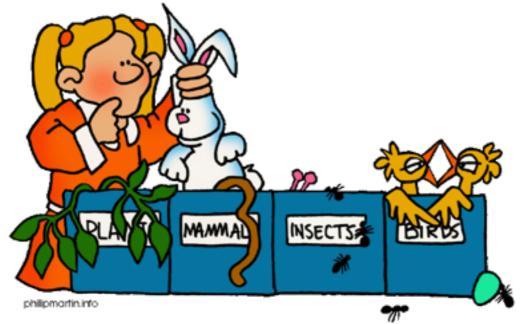


- Gènes tissus-spécifiques (<3 tissus)
- Gènes majoritairement représentés (top 450)
- Total: 11,102 / 16,253 gènes
- Présence/absence de insertion/délétion par chromosome

Dimensionality reduction

De 11,150 features à 900 composantes principales





Classification: SVM (linéaire)
Pénalité L2
Test set (500 nouveaux samples)
Accuracy: 78%
(8 classes)

Accuracy de 74% sur le dataset "secret"

Merci!