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# Why apply Darwinian Evolution to Music

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Hypothesis :Melodies are darwinian populations? Focus on one, “simple” case.

First, why not to look at what's happened ?

- ▶ Record and analyze.
- ▶ Rythmes,
- ▶ Frequencies

Draw it and observe !

# And so ?

Try to apply Darwinian Evolution to cultural entities, ok, but Why? (other theories and tools works well)

- ▶ Musicological studies ?
- ▶ Universal Darwinism.
- ▶ Darwinian Theory of Evolution (Biology) ?

*The hard question!* (cf. O. Morin yesterday).  
Can we use Darwinian Evolution to *help* Musicologists, Historians,  
Anthropologists. To be answered !

To study evolutionary process themselves.

- ▶ Broader approach,
- ▶ Alife-like (Baradiaran et al. 2006),
  1. Les modèles esthétiques,
  2. les modèles d'ingénierie et,
  3. les modèles épistémiques.
- ▶ ...

Bring back lessons learnt from musical evolution to biological evolution :

- ▶ Developmental approach.
- ▶ Rethink ontologies.