

CO-(r)ÉVOLUTION

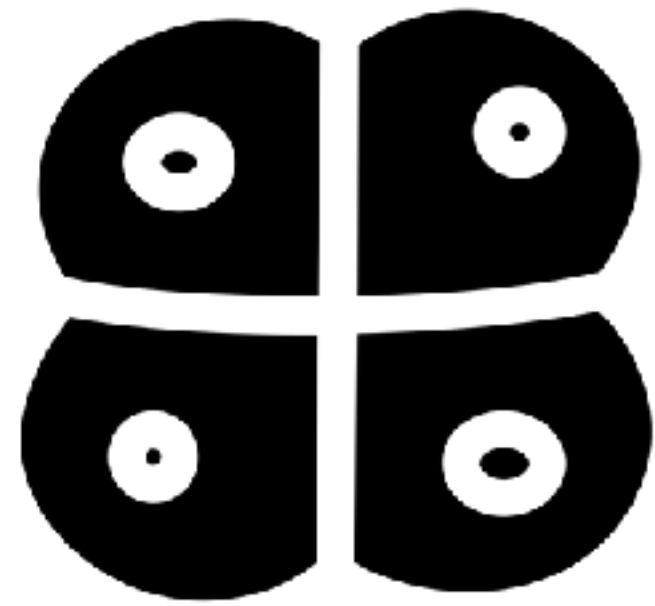
S'inspirer du vivant pour penser partenariat, collaboration, compétition, enrichissements, ...

François MILLET
Directeur projet science et société - Le Dôme
@milletrds

30 Juin 2022



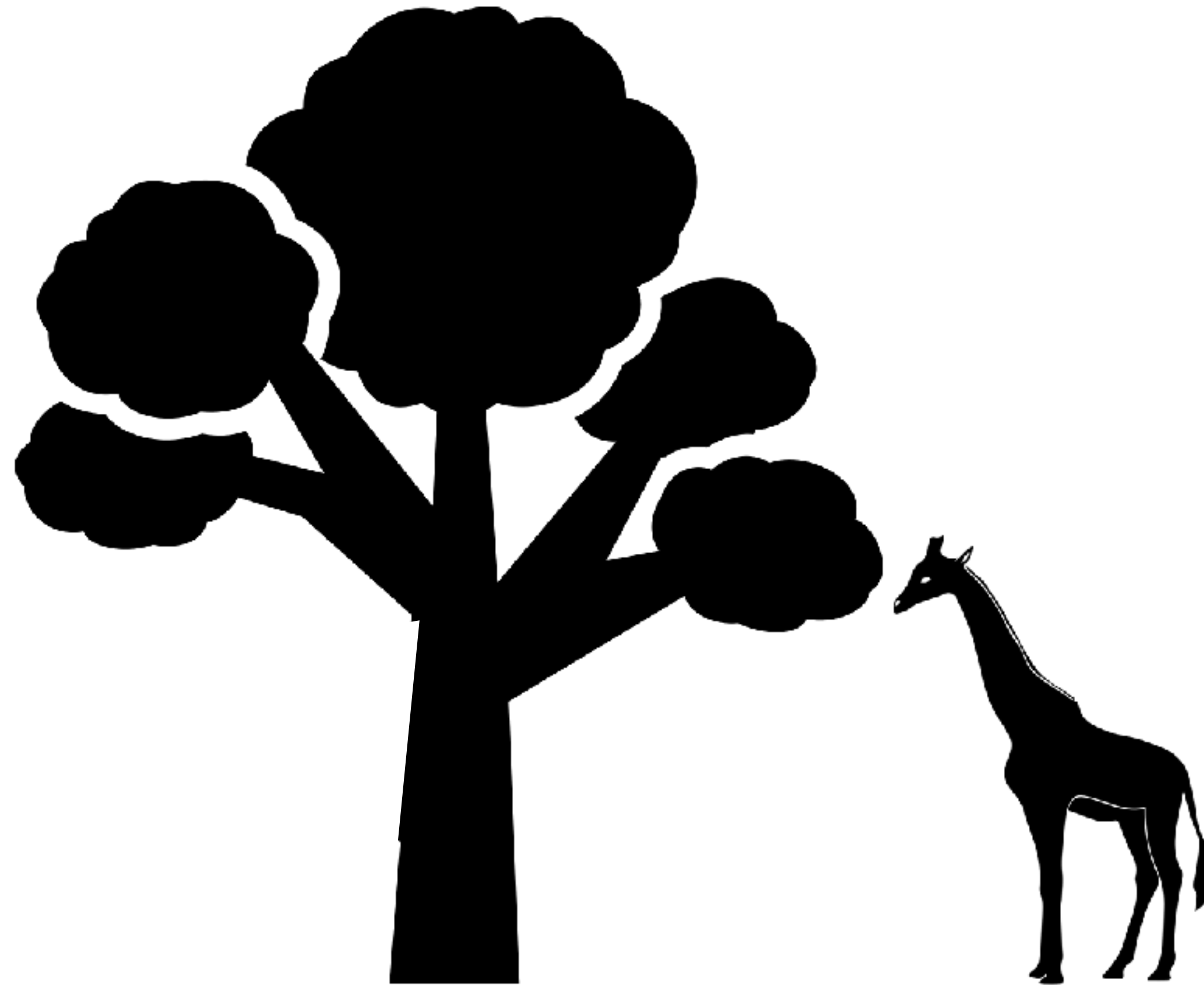
les fonctions du vivants



les contre sens de l'évolution



les contre sens de l'évolution



les contre sens de l'évolution



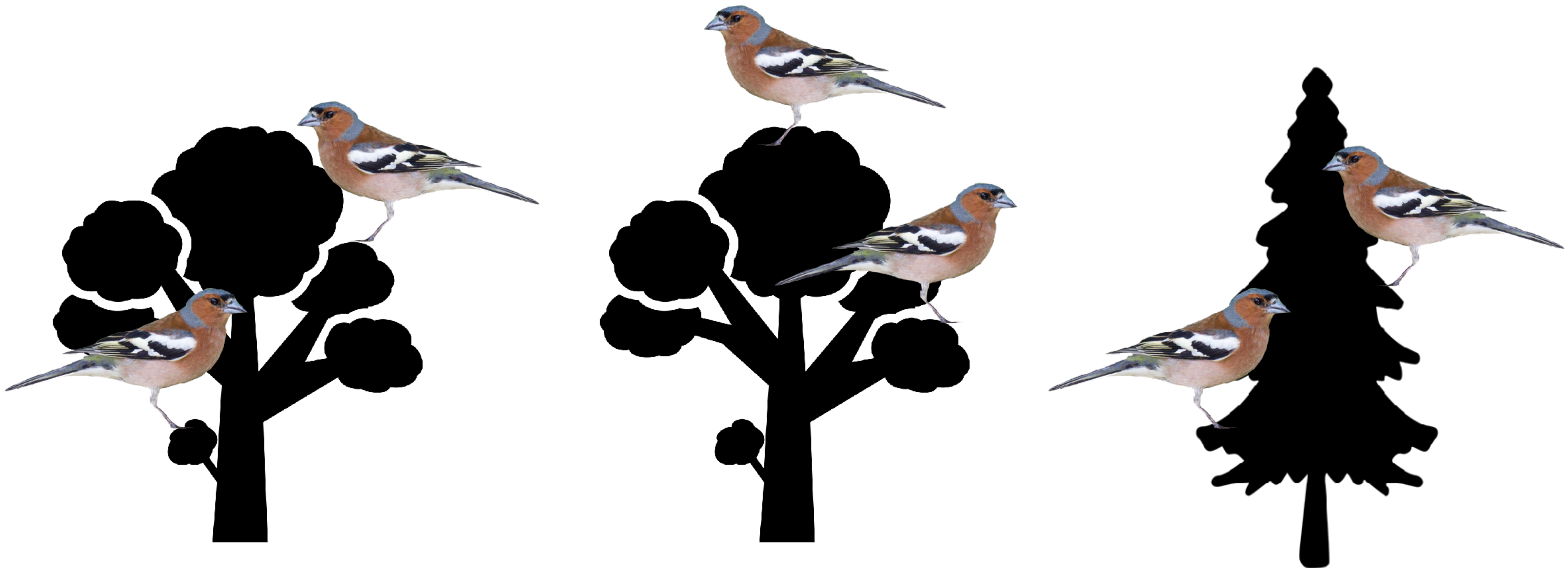
les contre sens de l'évolution



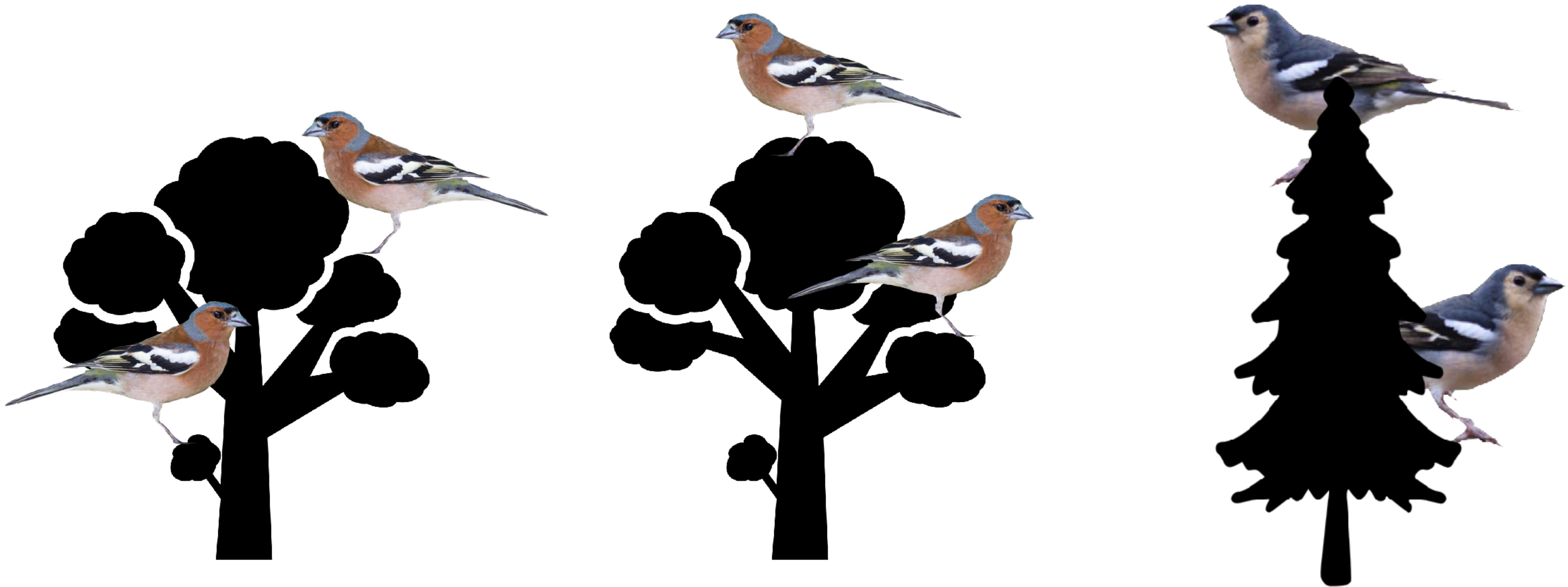
Compétition interspécifique



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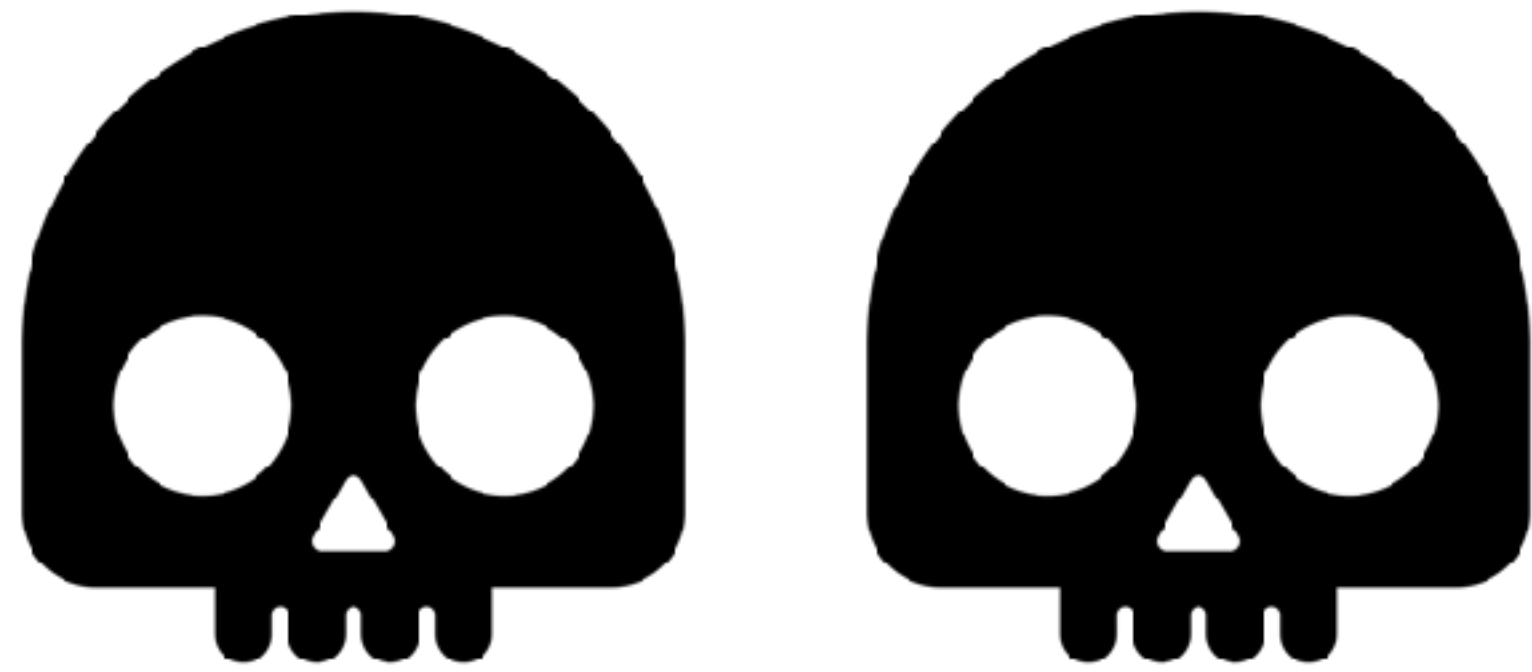
Lotka-Volterra (années 25 et 26)

$$\begin{cases} \frac{dN_1}{dt} = r_1 N_1 \left(1 - \left(\frac{N_1 + \alpha_{12} N_2}{K_1} \right) \right) \\ \frac{dN_2}{dt} = r_2 N_2 \left(1 - \left(\frac{N_2 + \alpha_{21} N_1}{K_2} \right) \right) \end{cases}$$

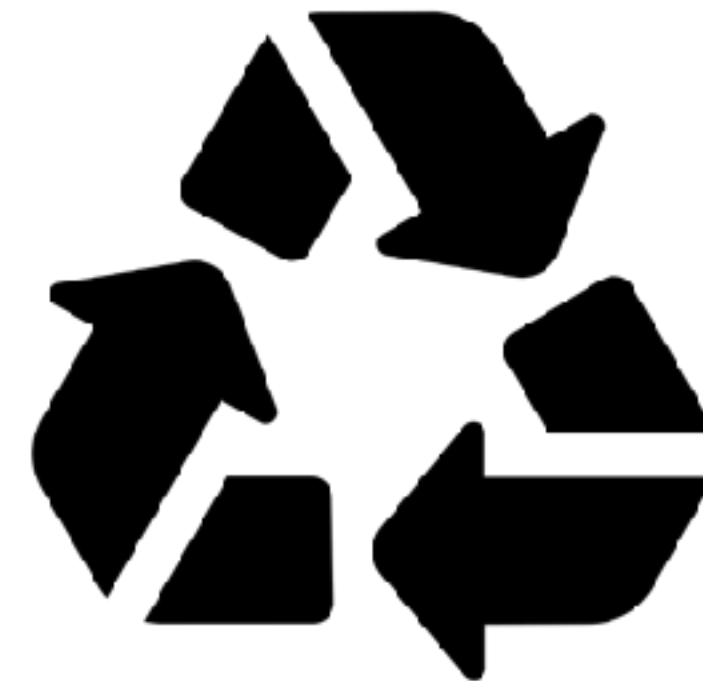
Compétition interspécifique



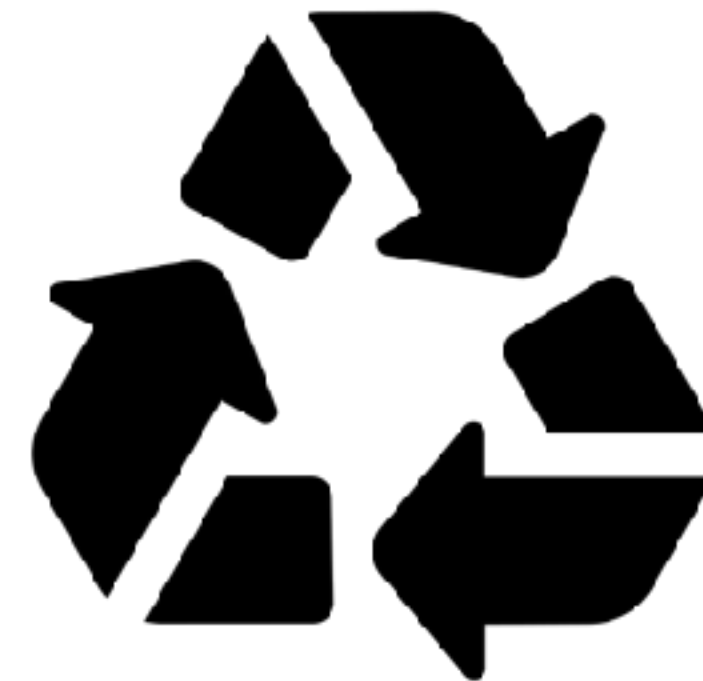
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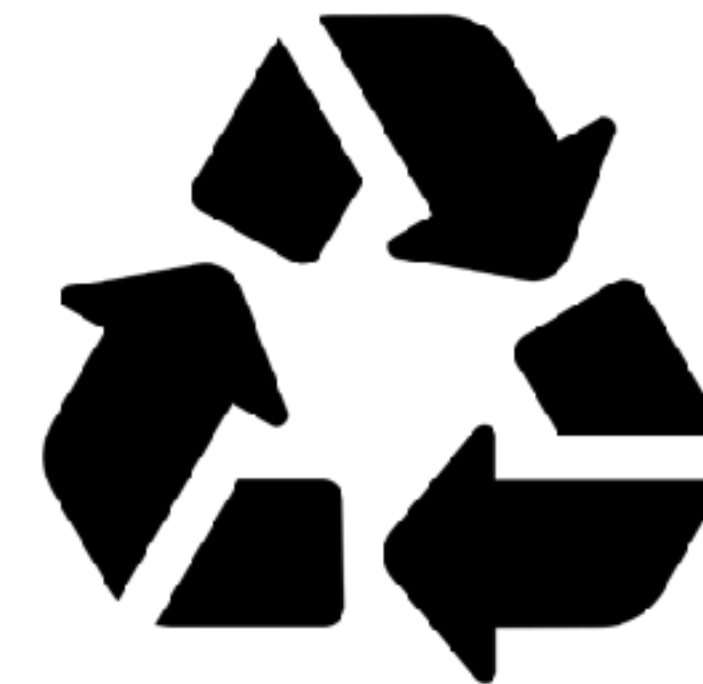
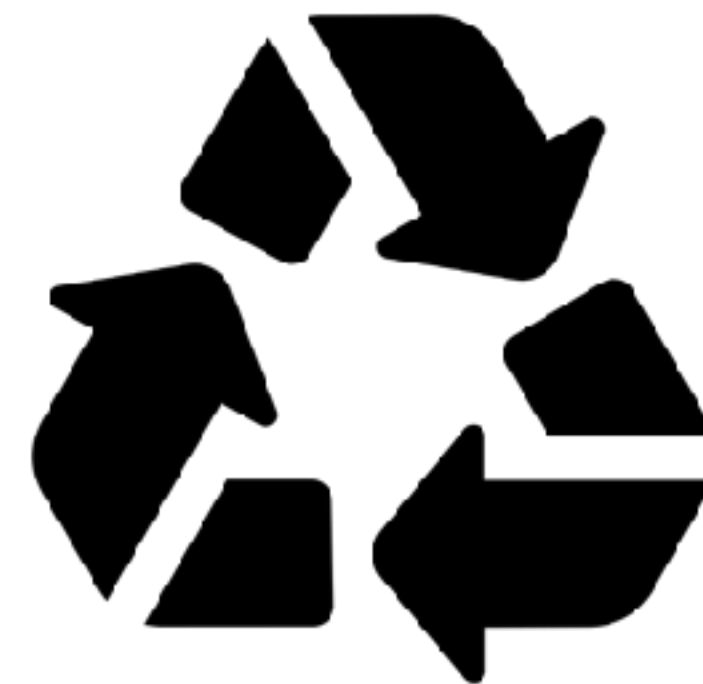
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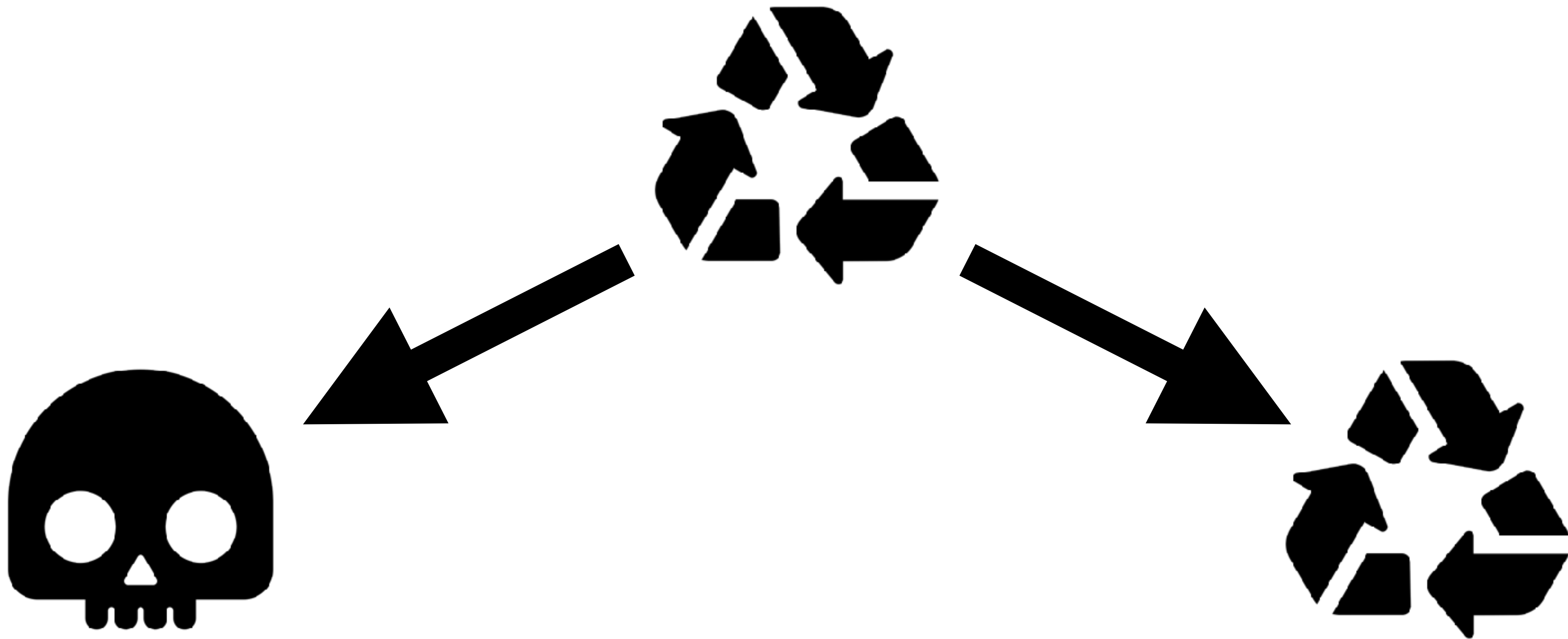
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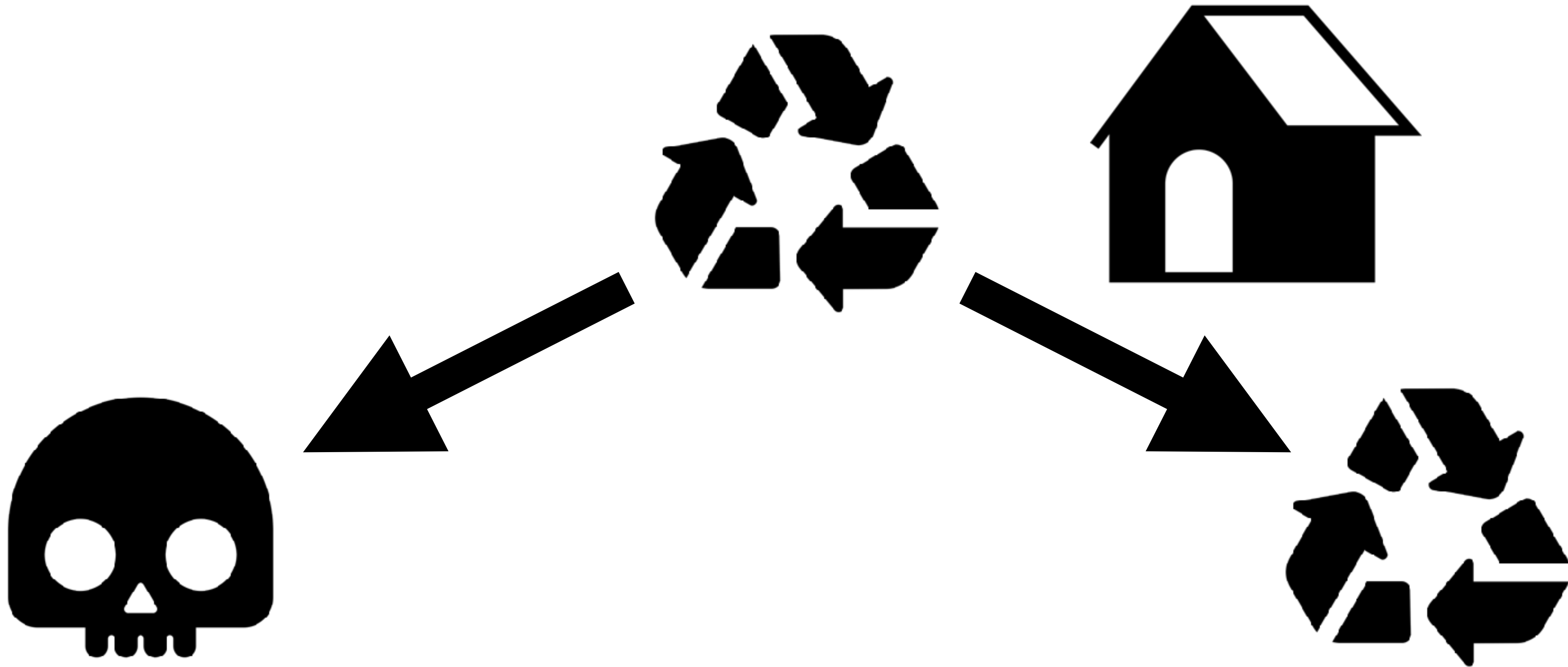
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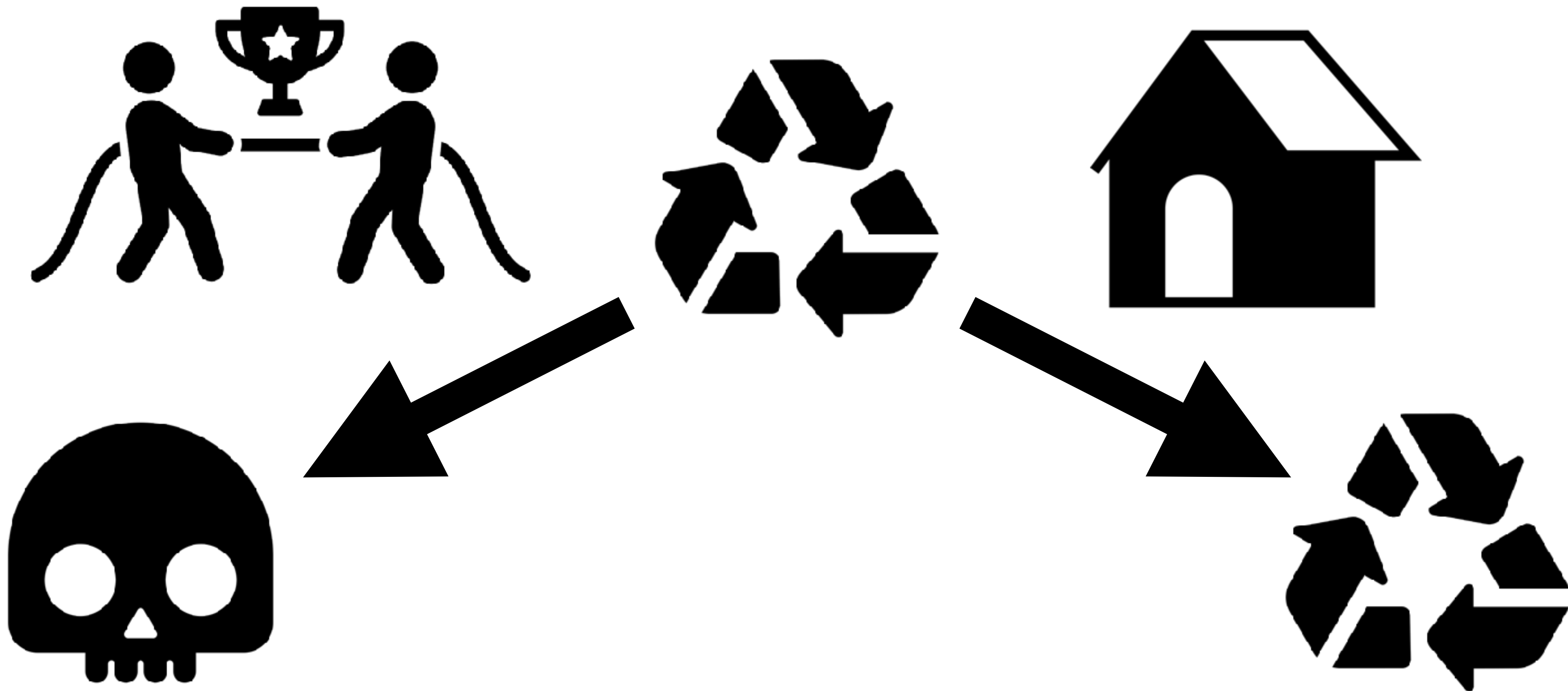
Compétition interspécifique



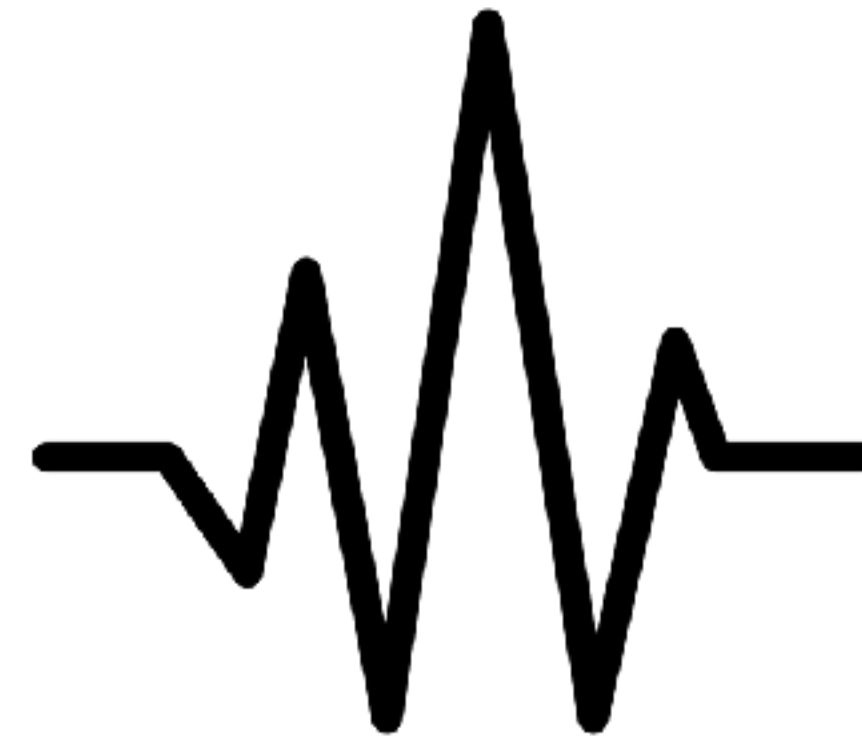
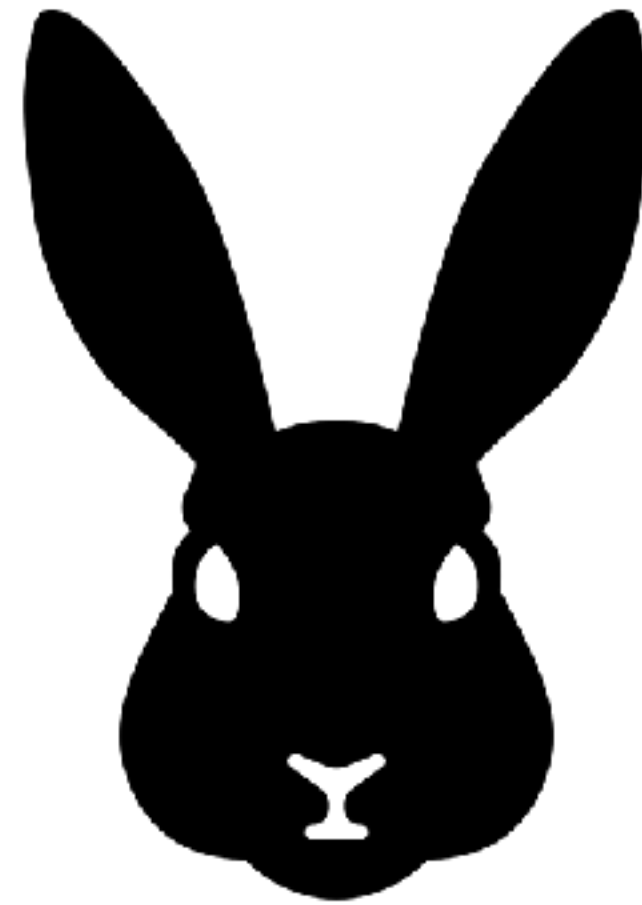
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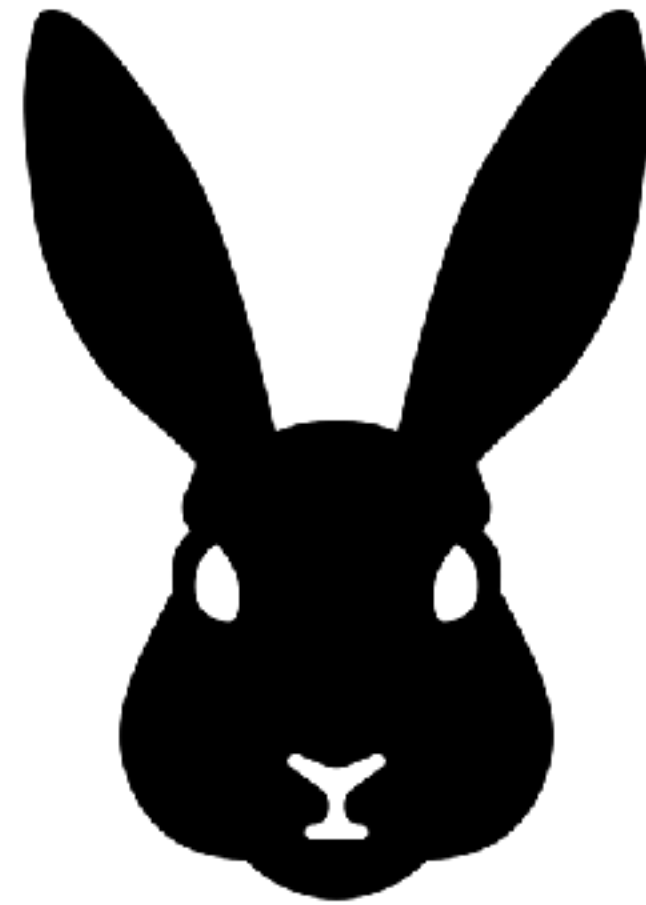
Compétition interspécifique



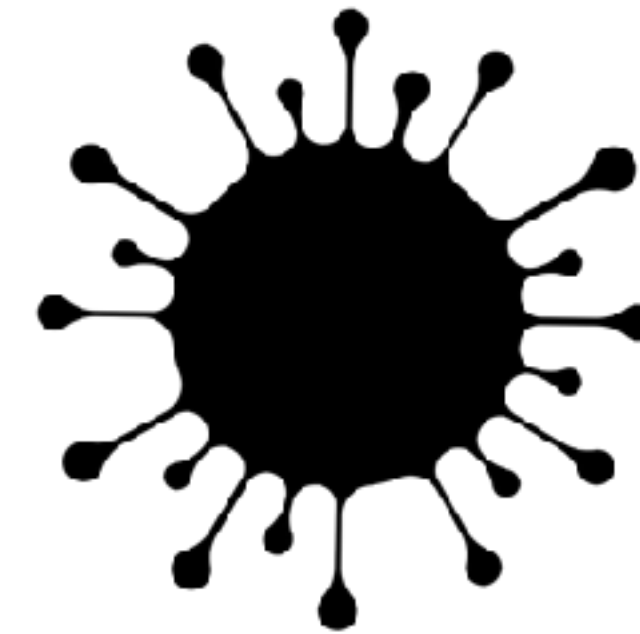
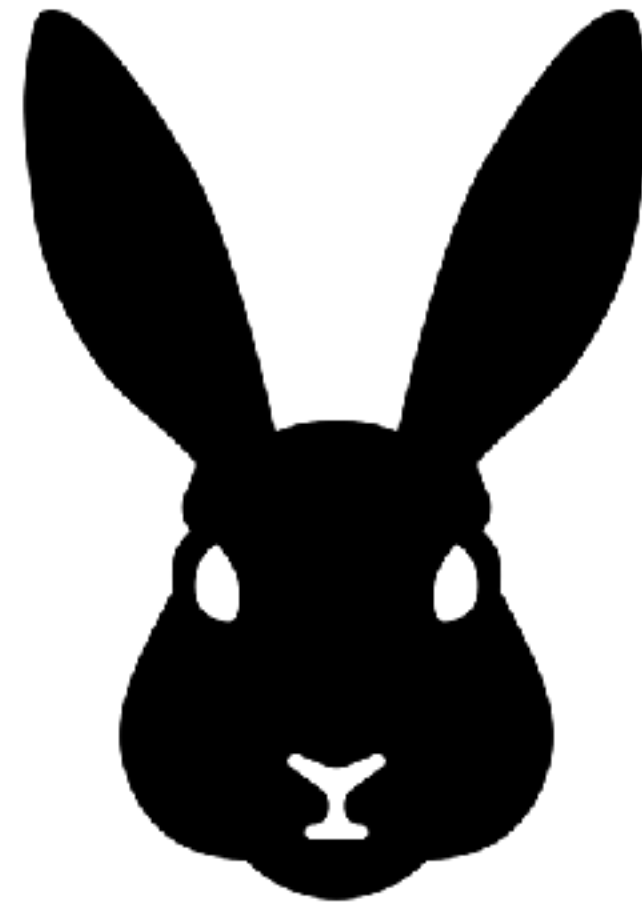
Proie - Prédateur



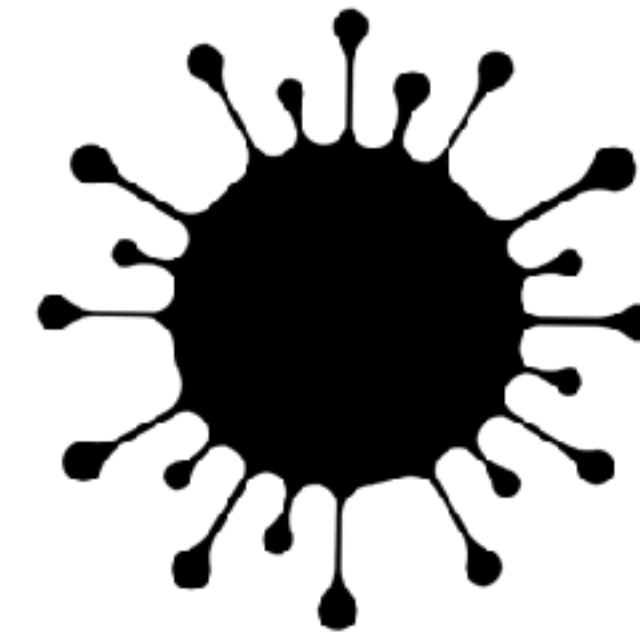
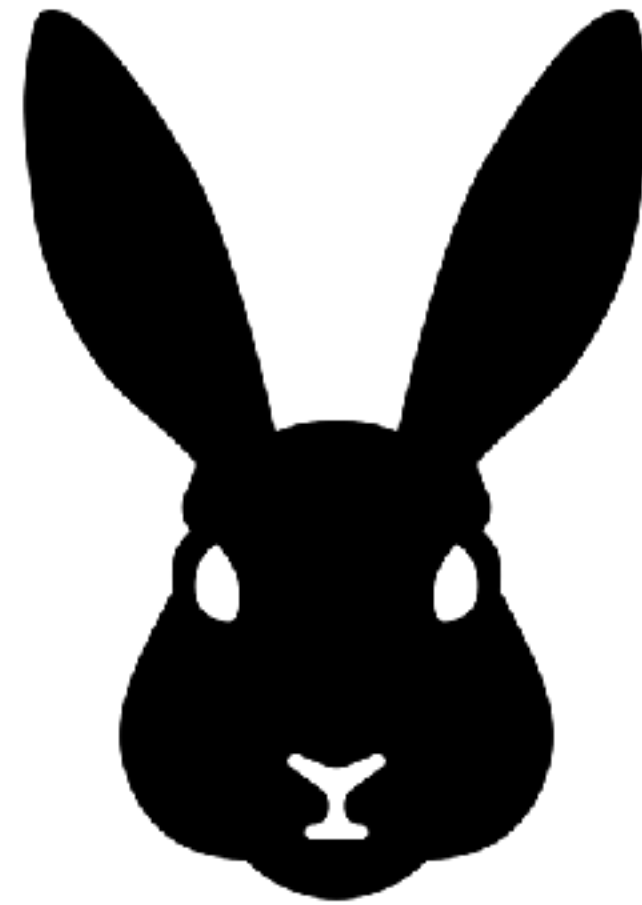
Proie - Prédateur



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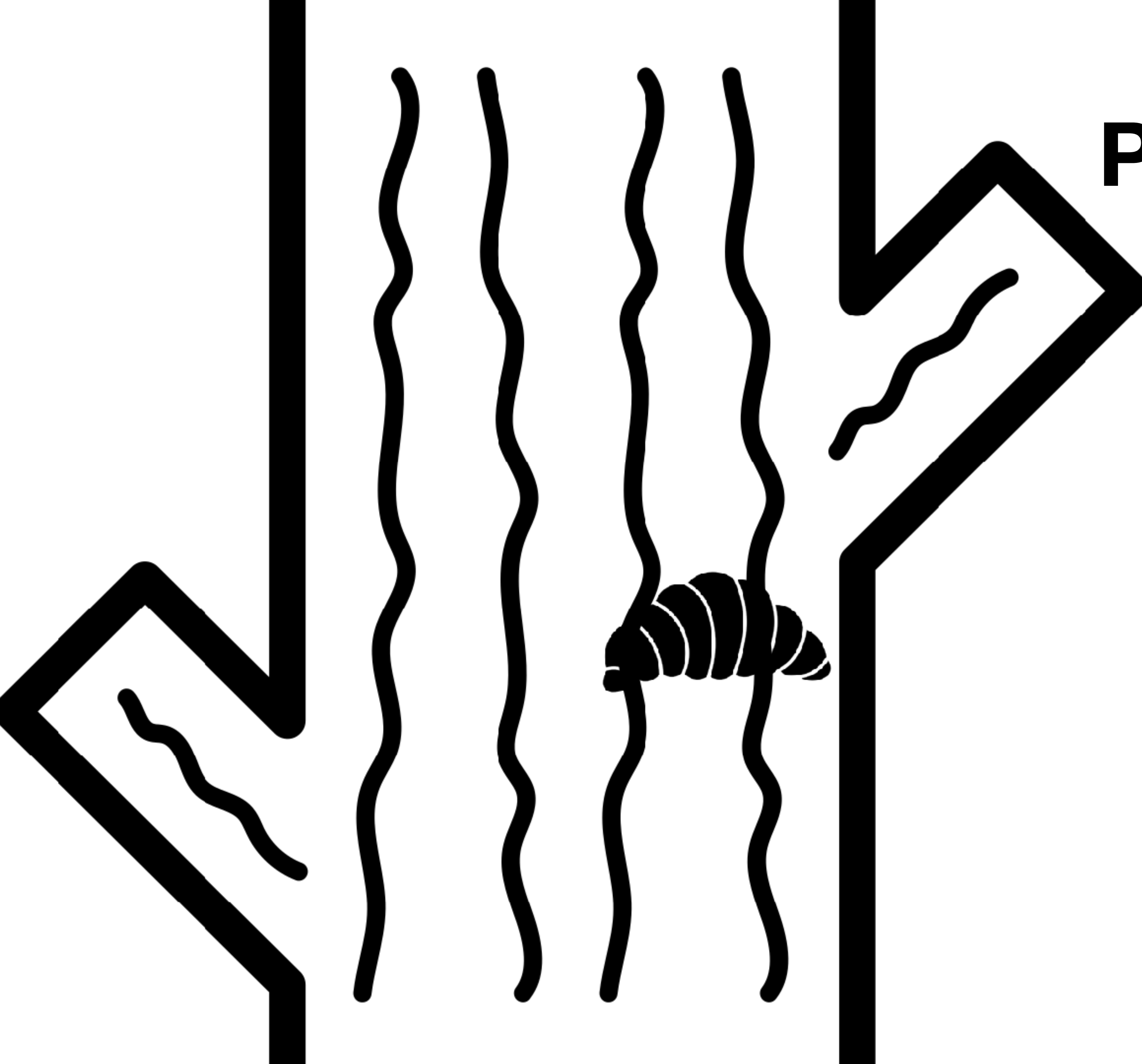
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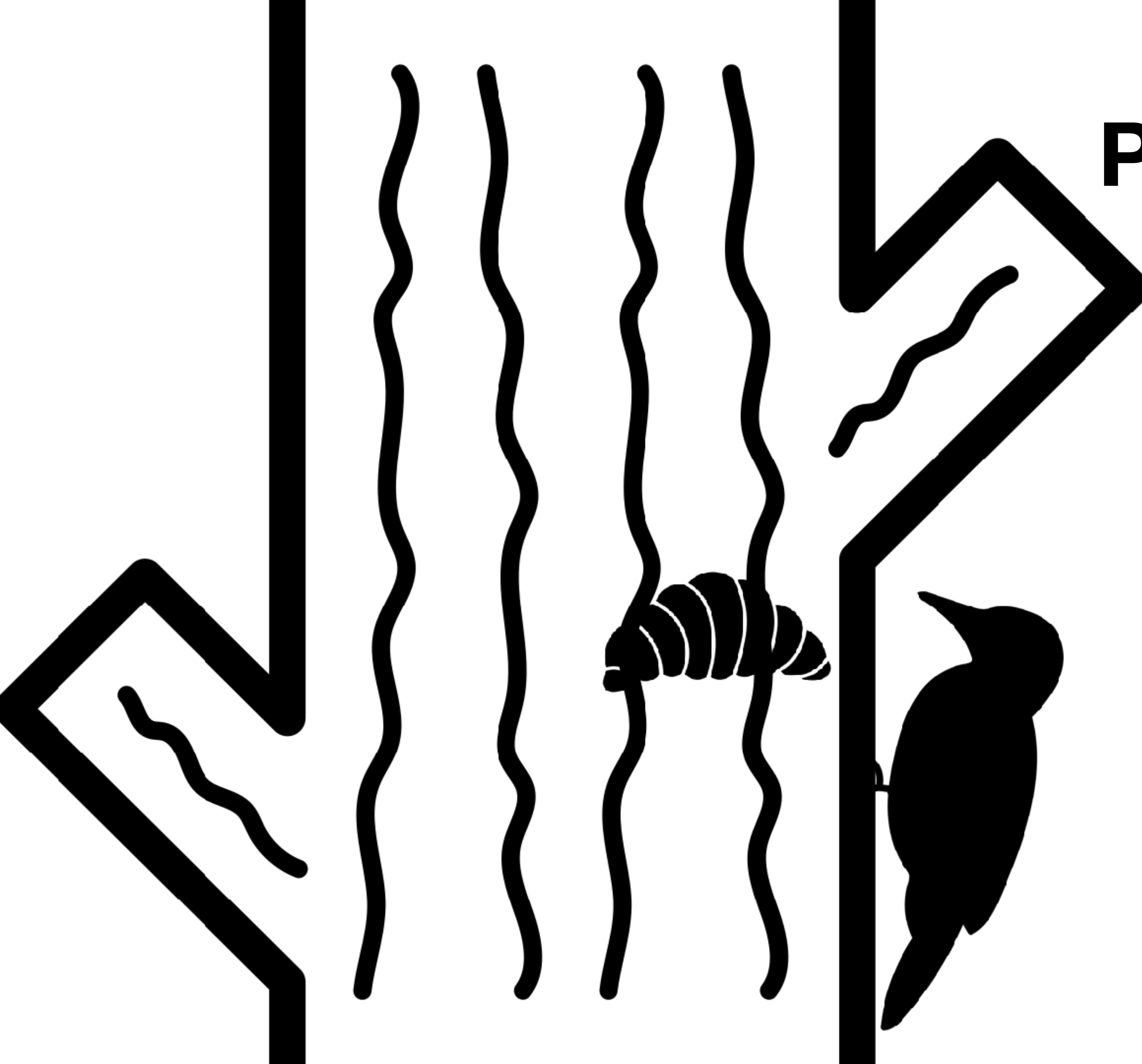
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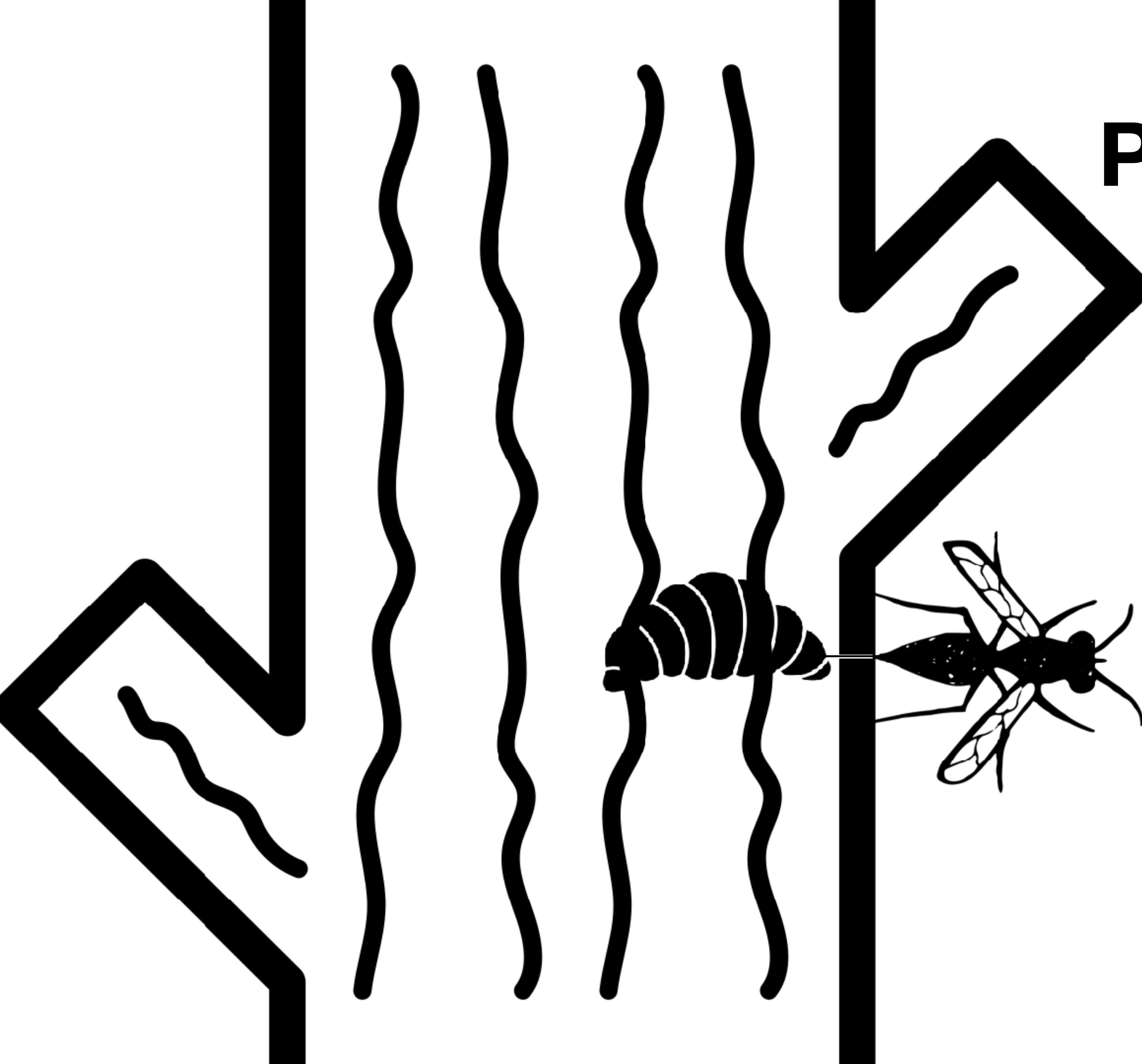
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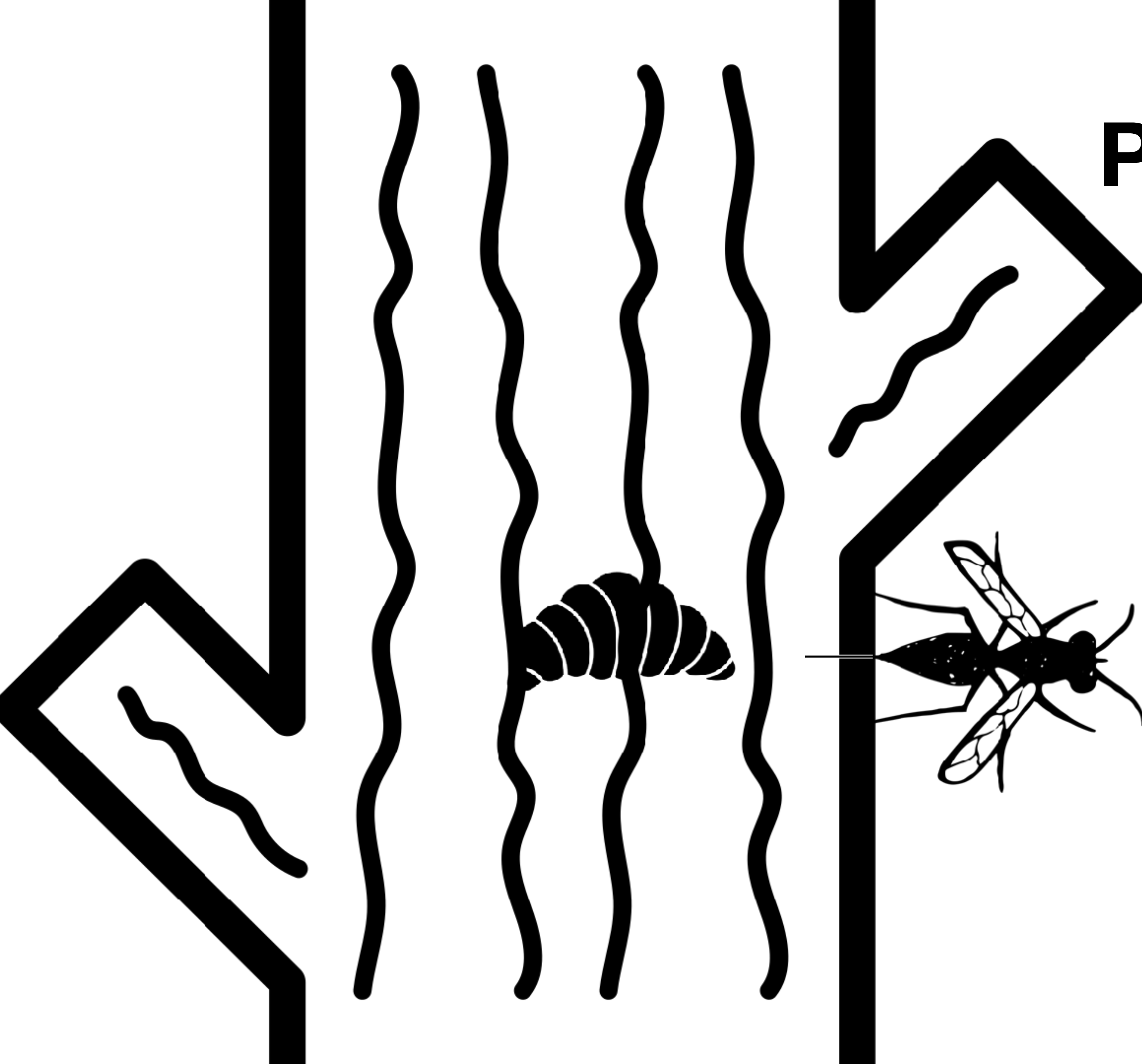
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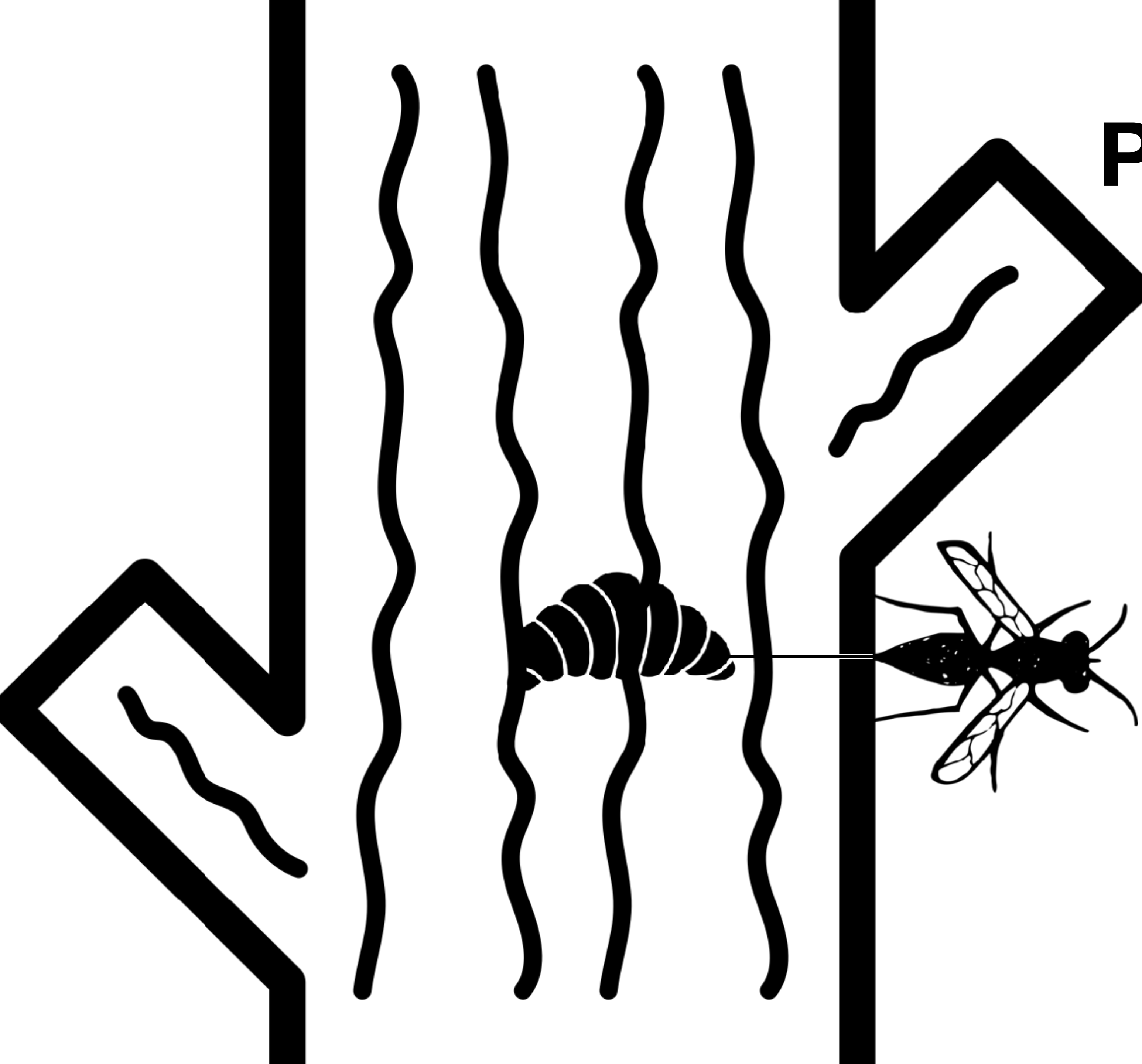
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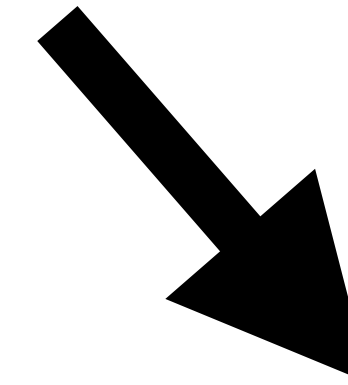
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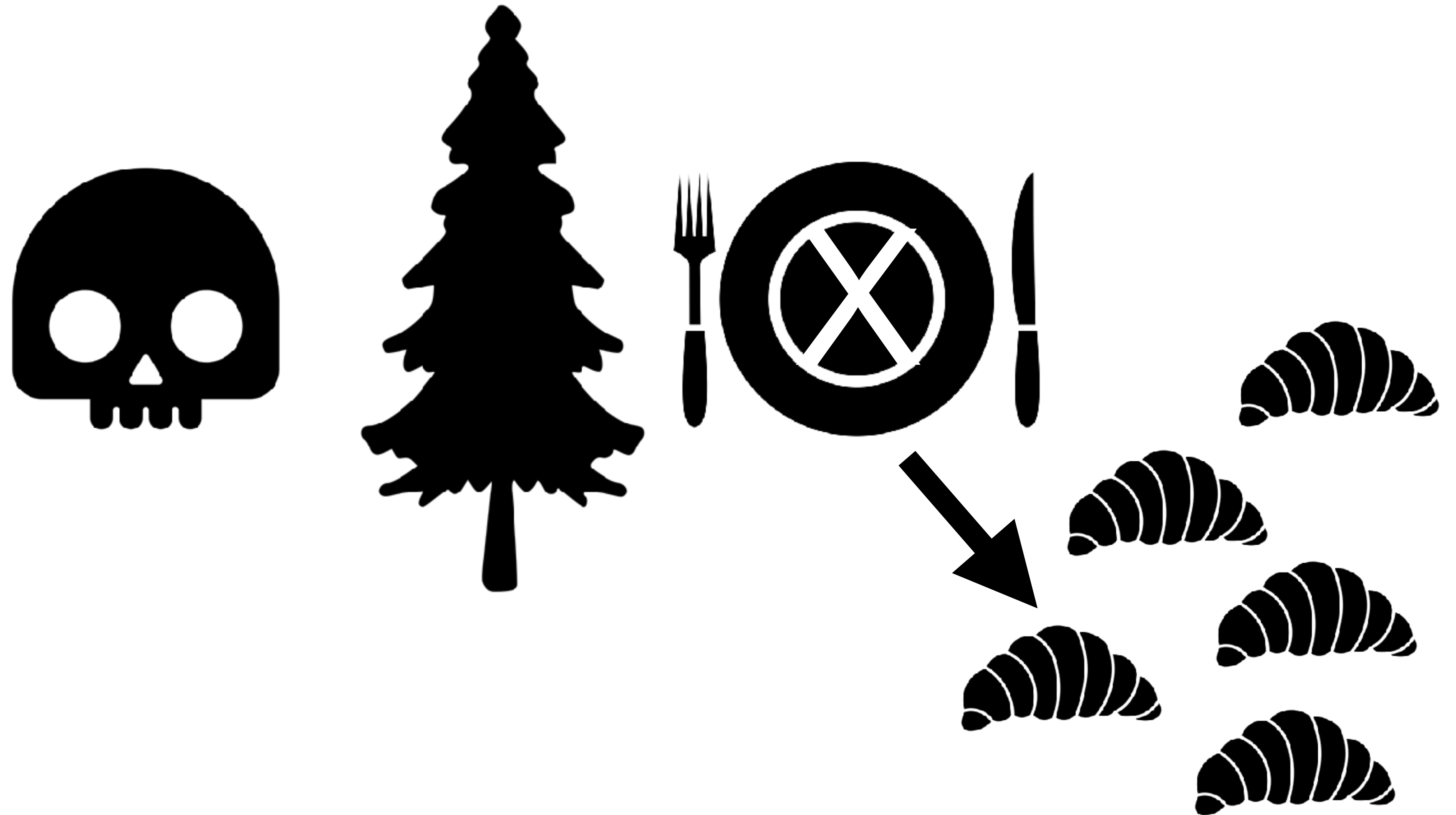
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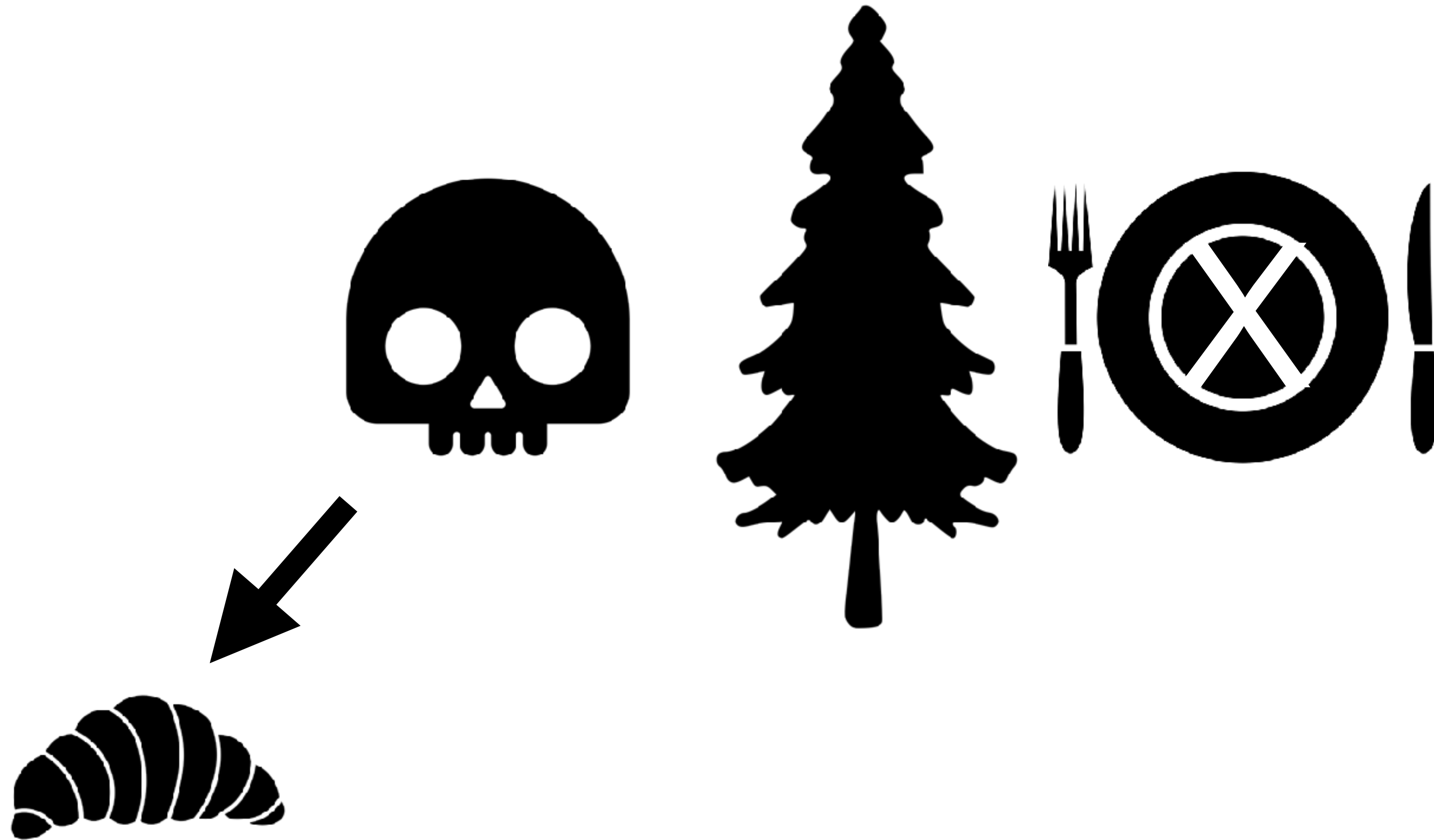
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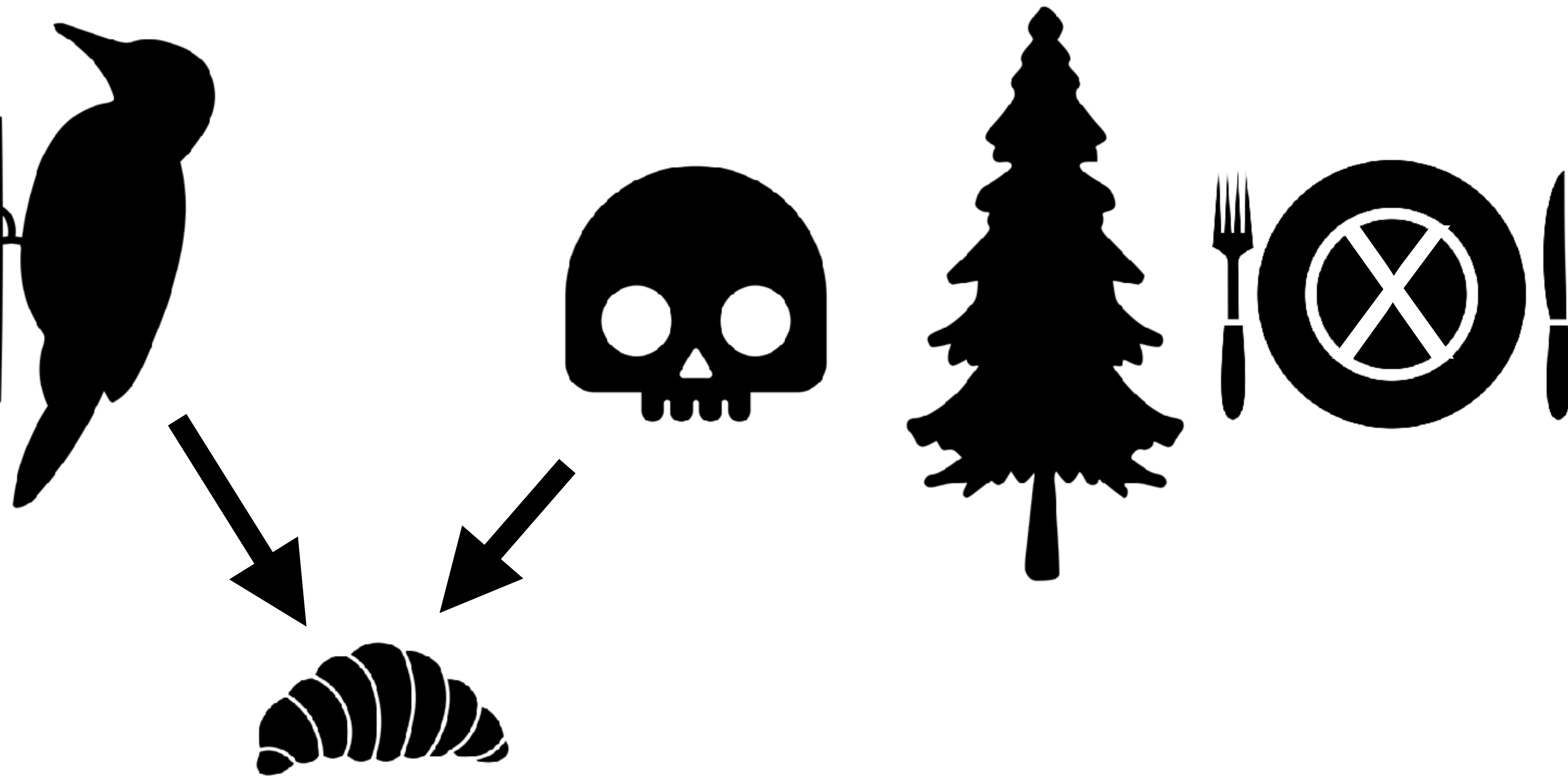
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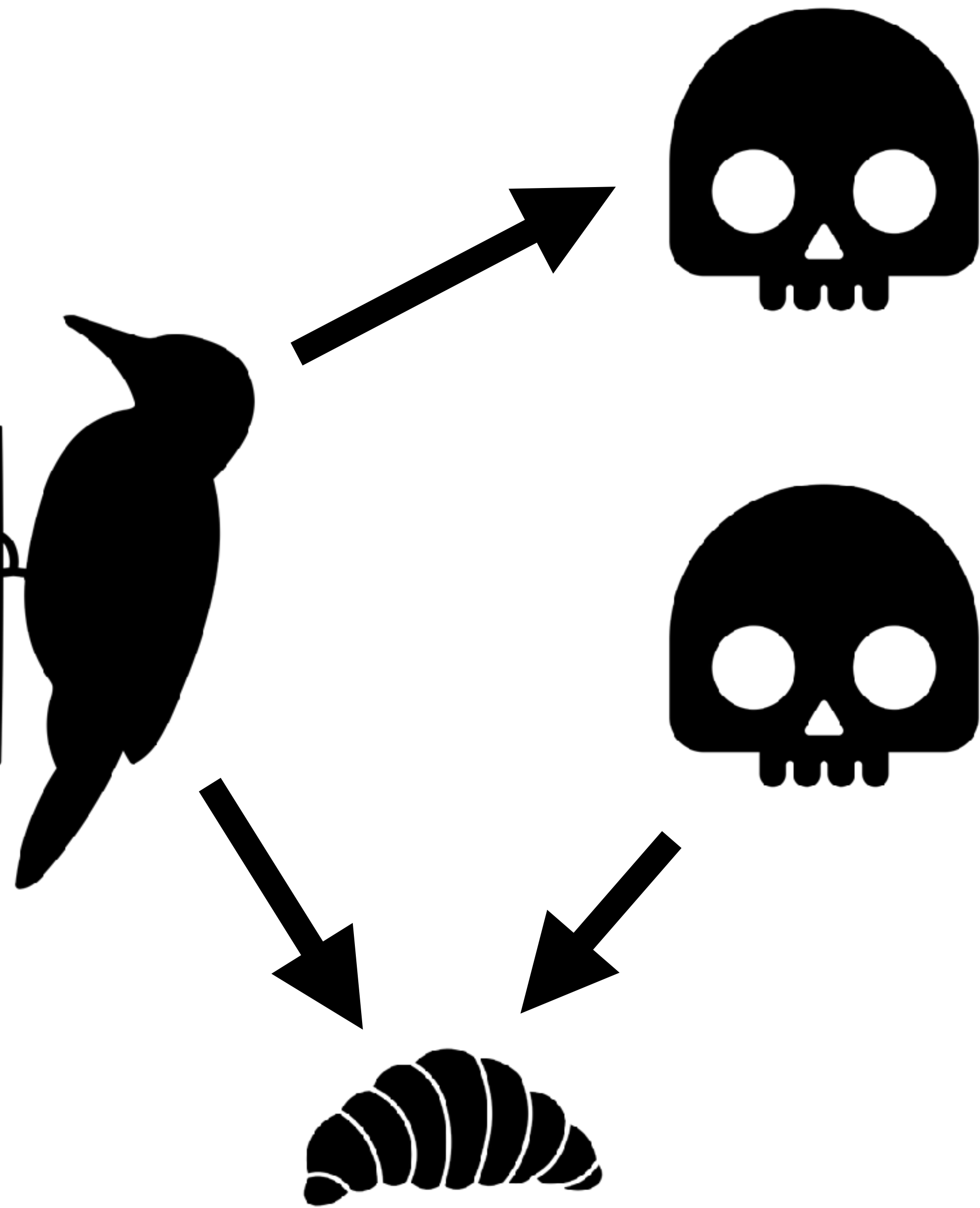


Proie - Prédateur



Proie - Prédateur

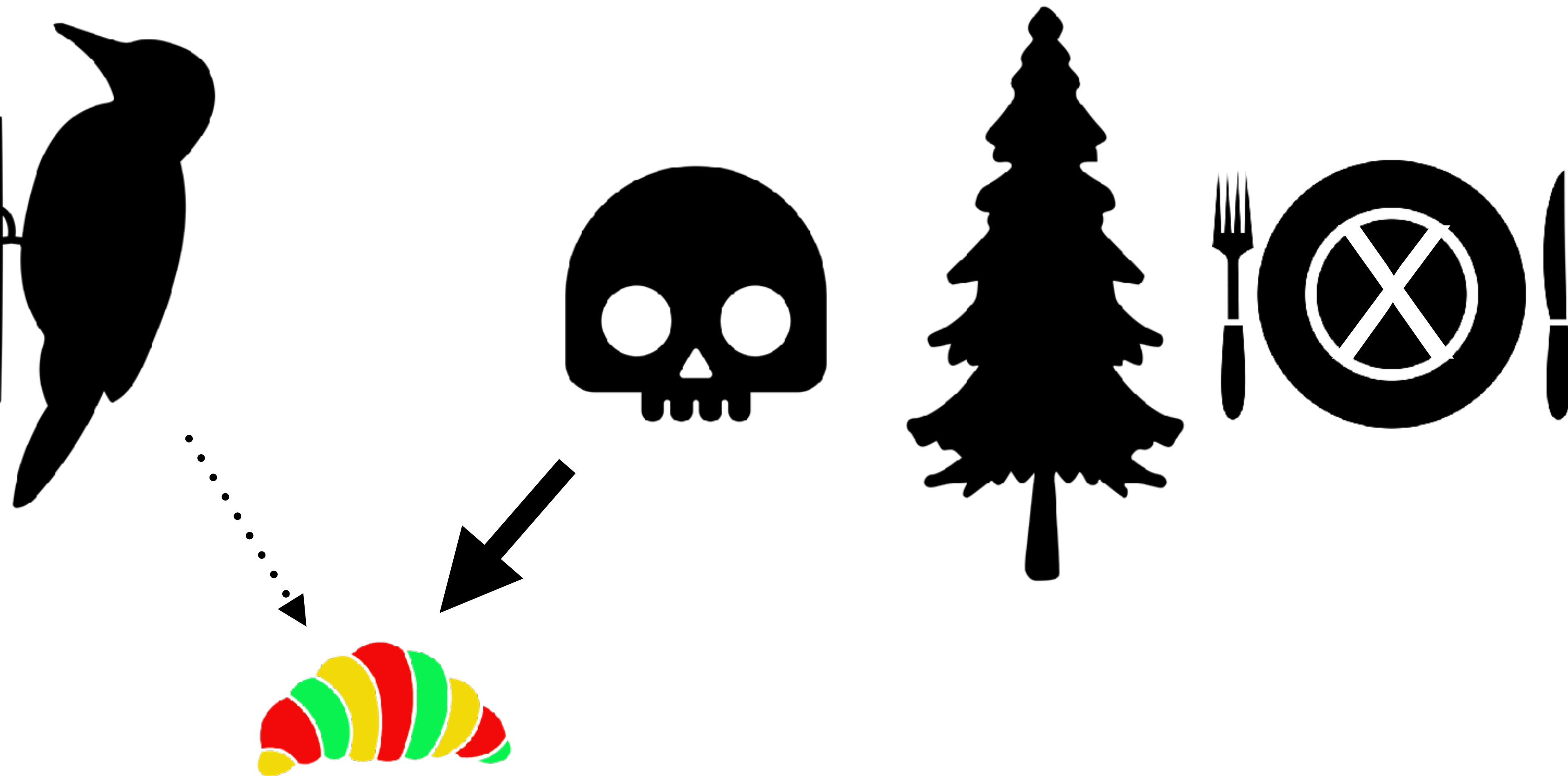




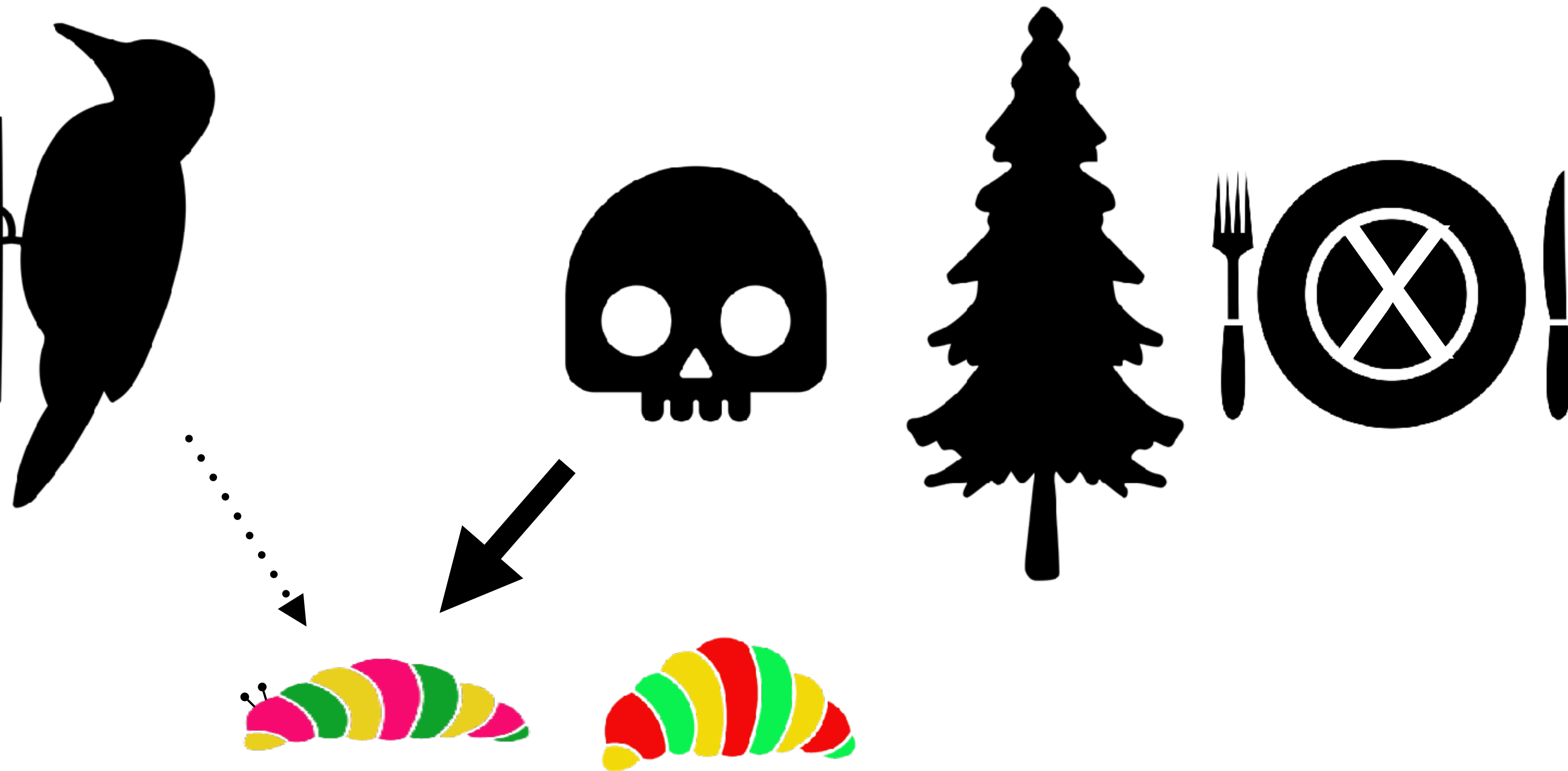
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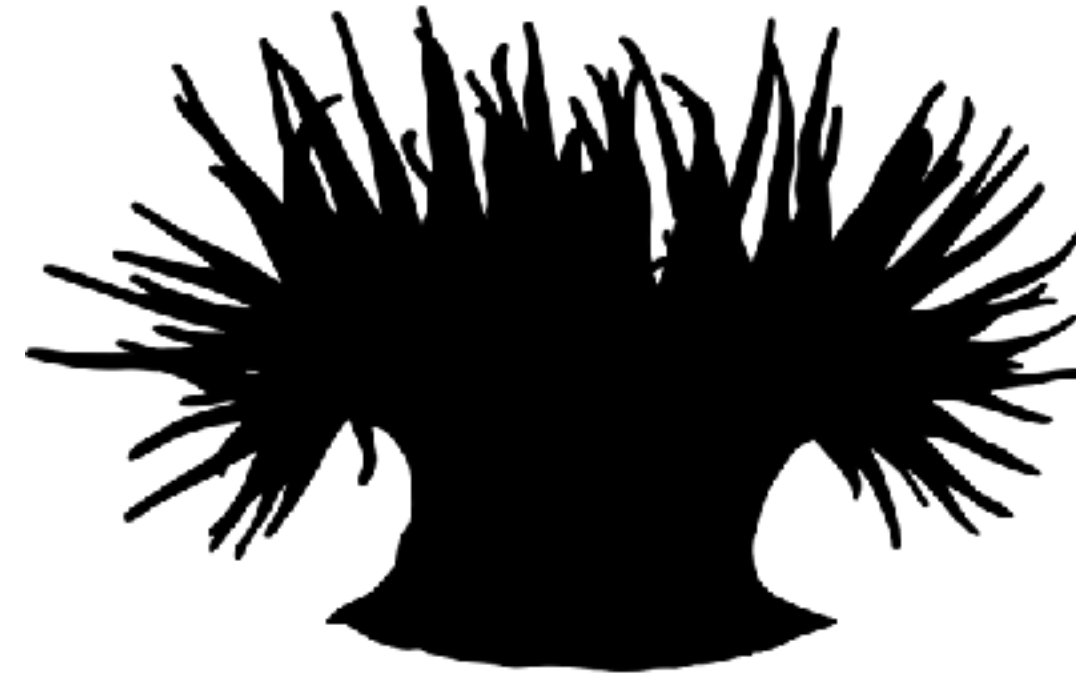
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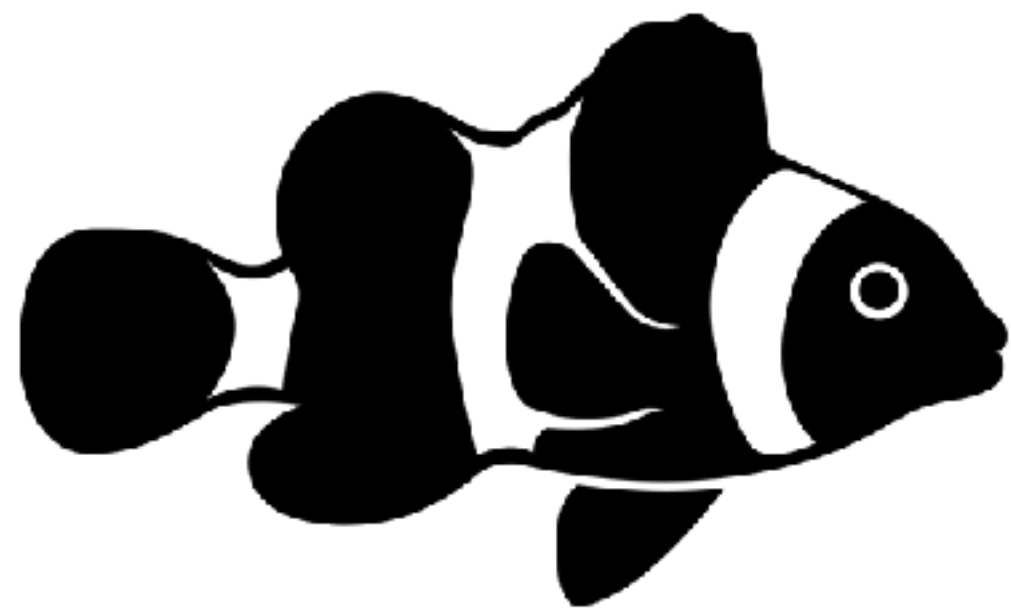
Commensalism



Commensalisme



Mutualisme



Mutualisme



Mutualisme



Mutualisme



Mutualisme contraint



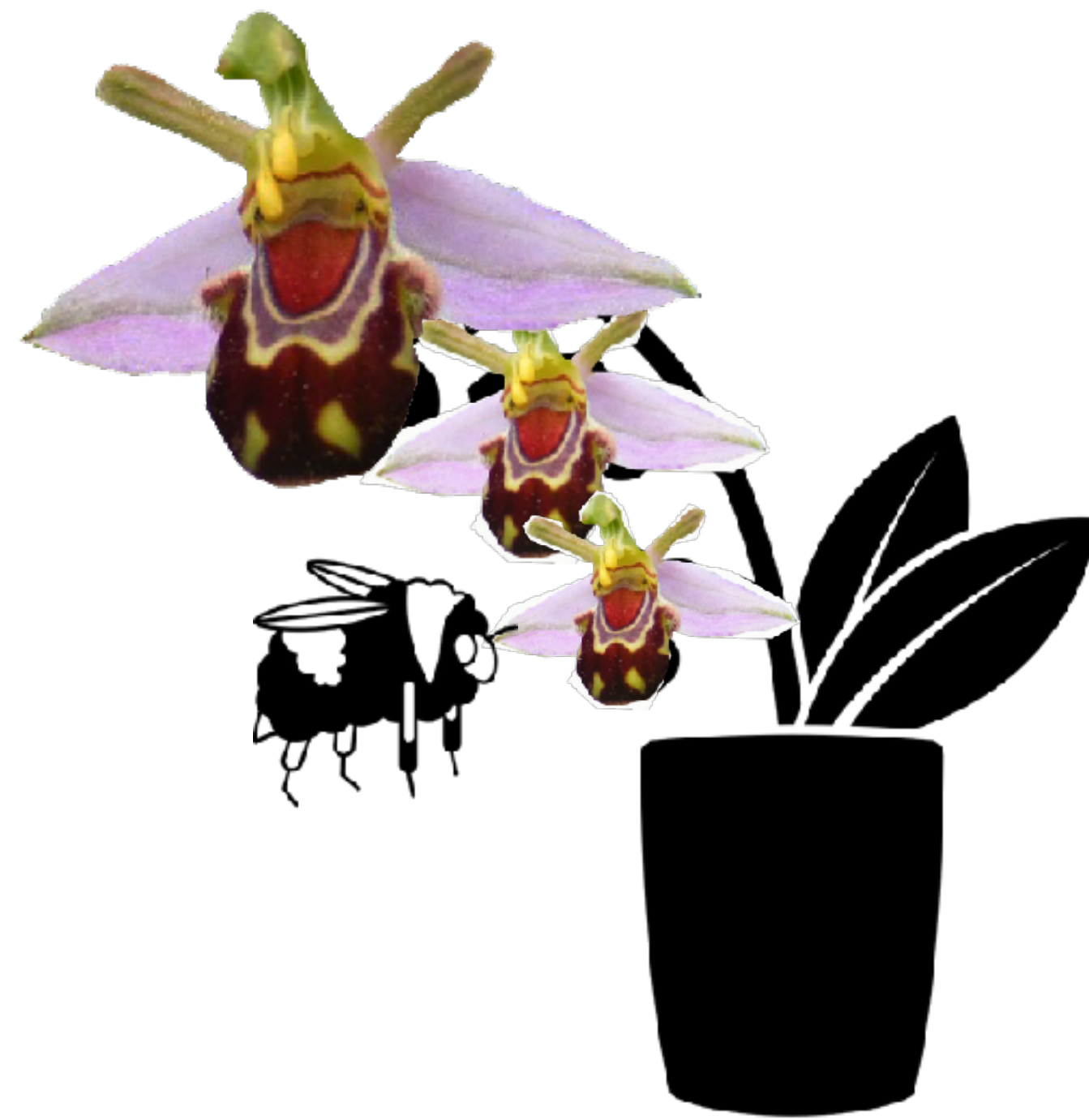
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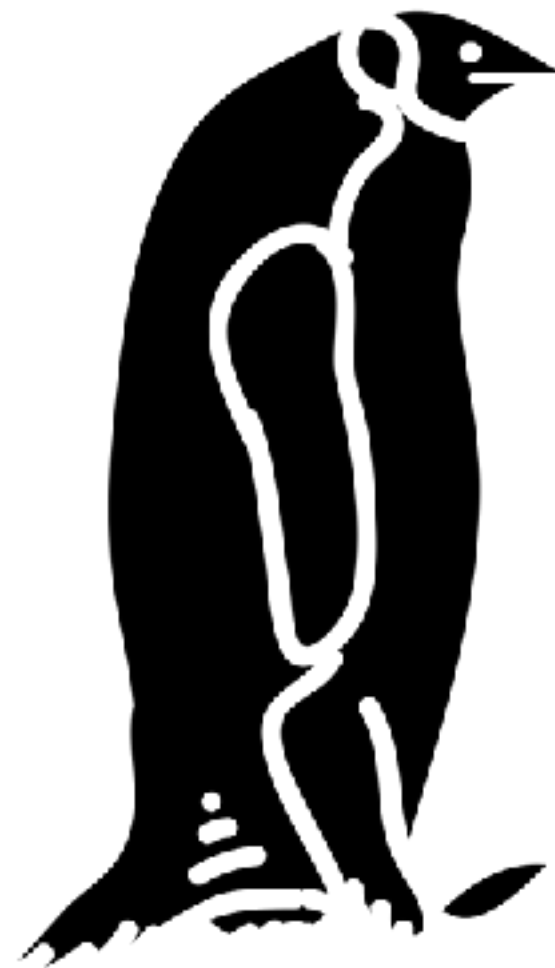
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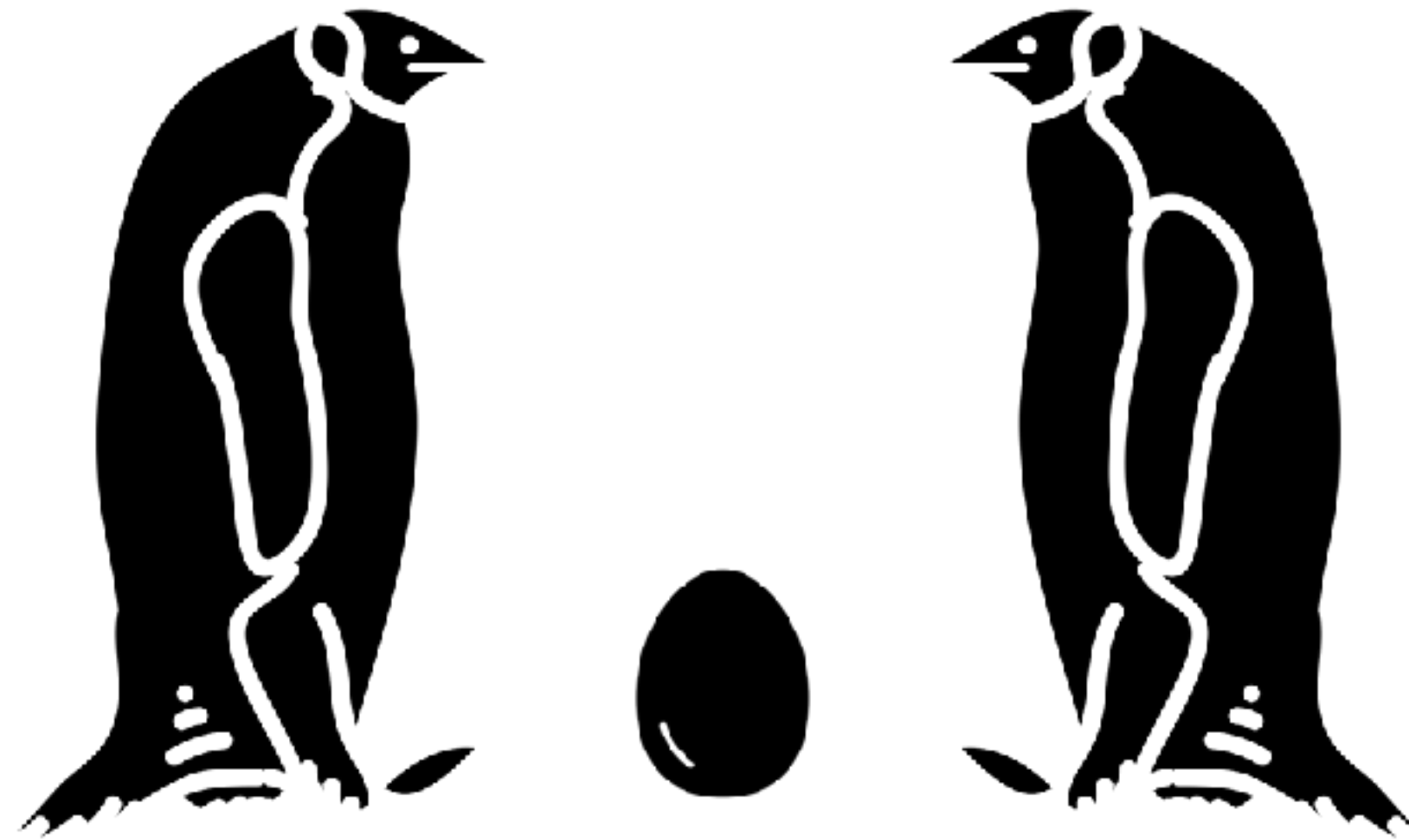
Mutualisme contraint



Stratégie de reproduction



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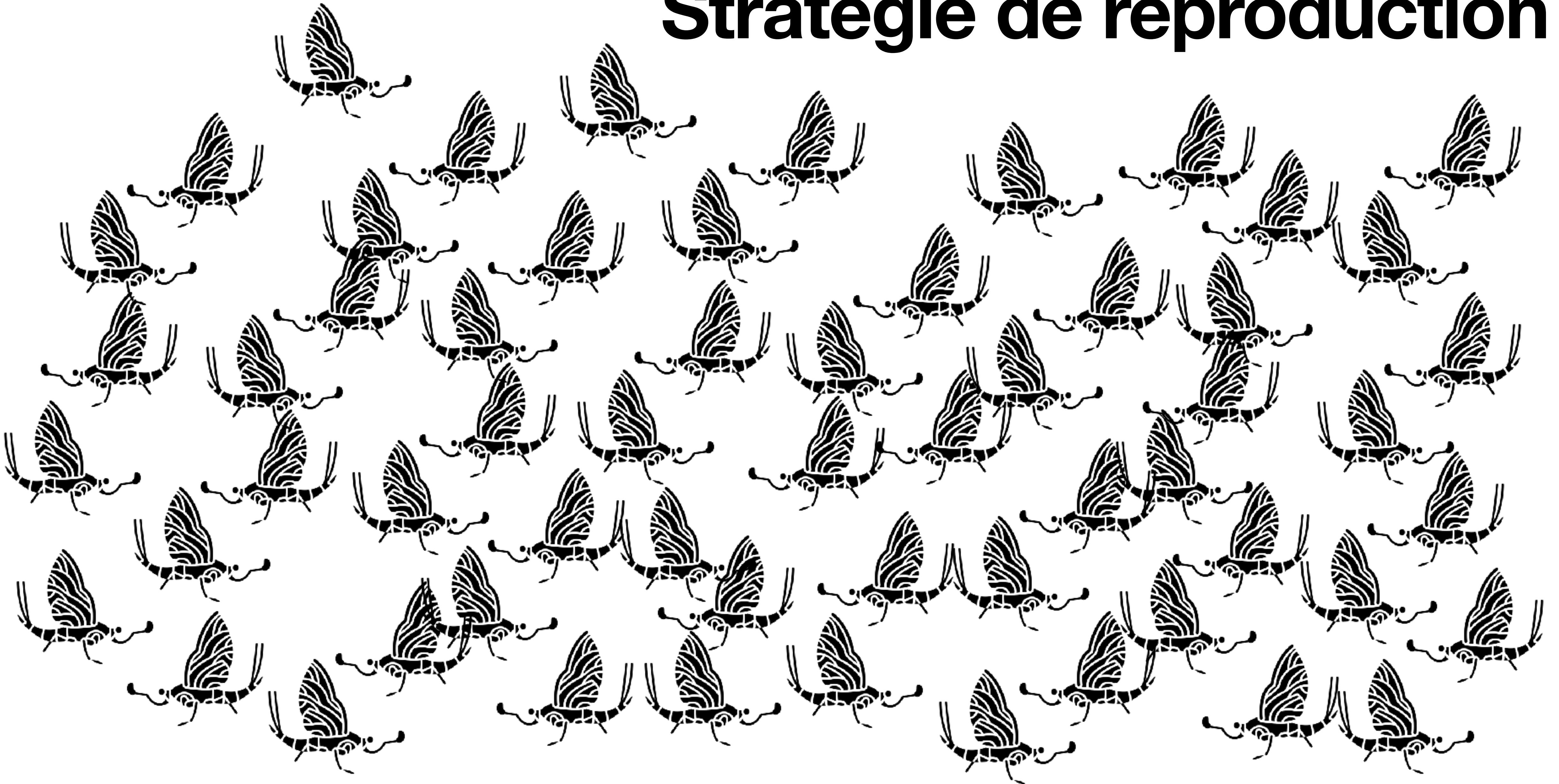
Stratégie de reproduction



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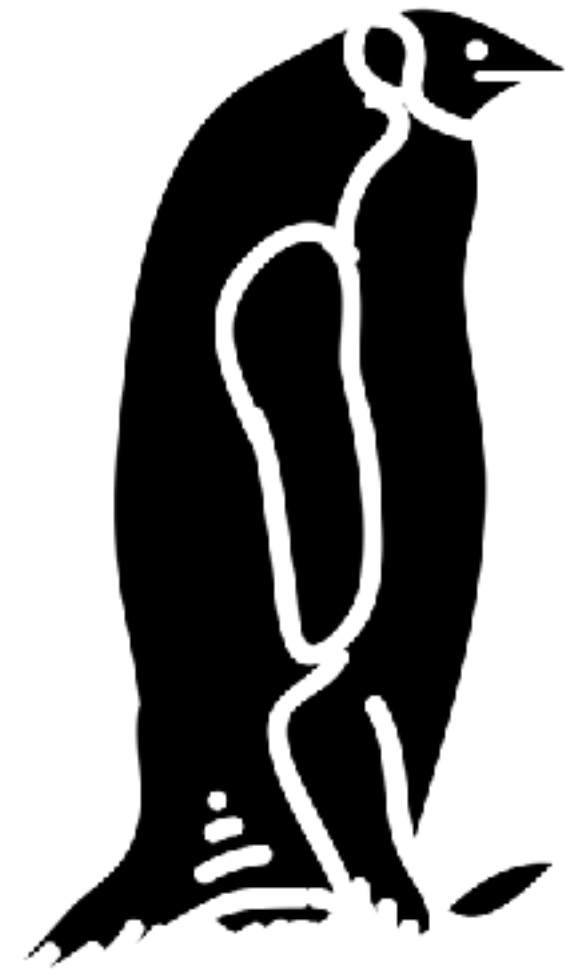


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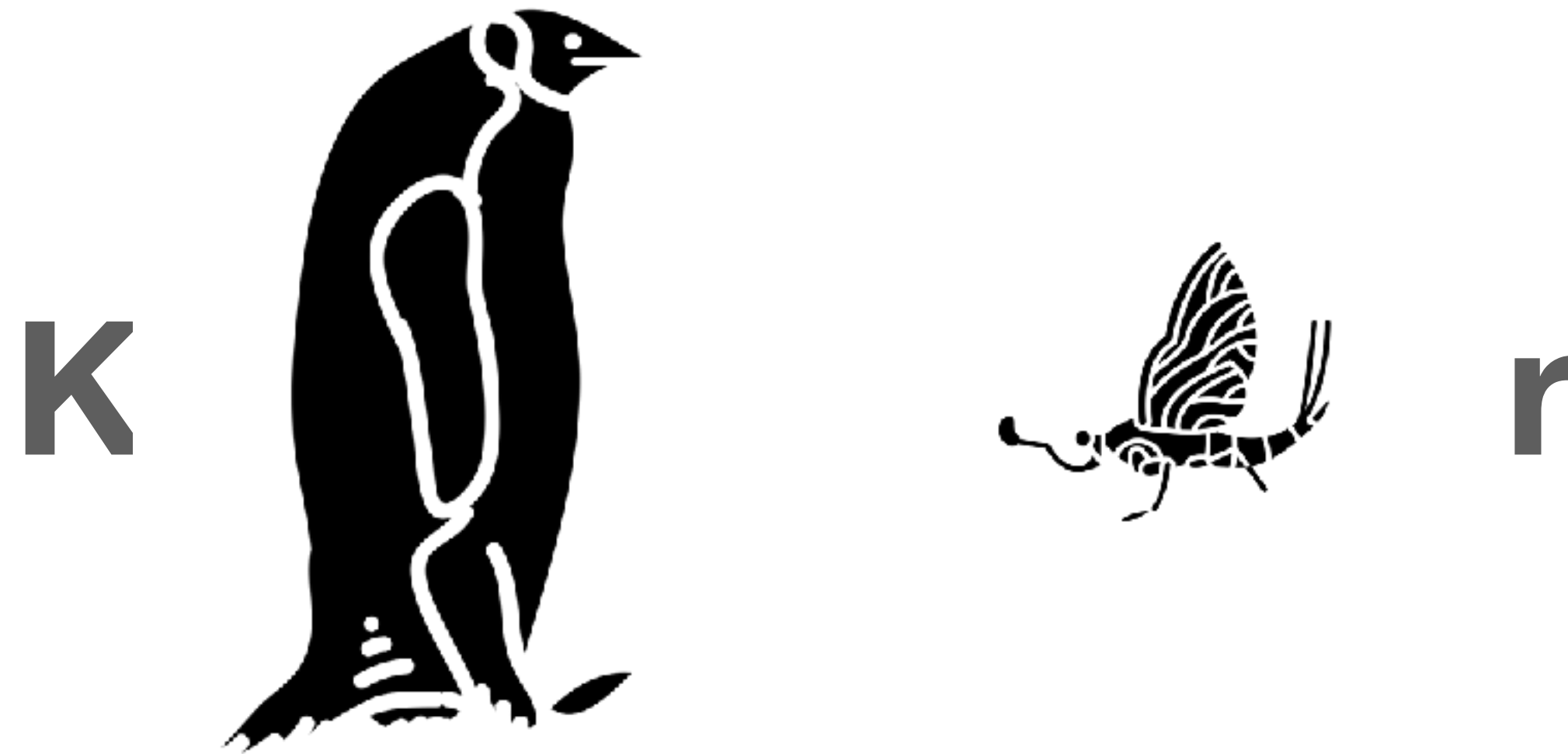
Stratégie de reproduction

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Stratégie de reproduction

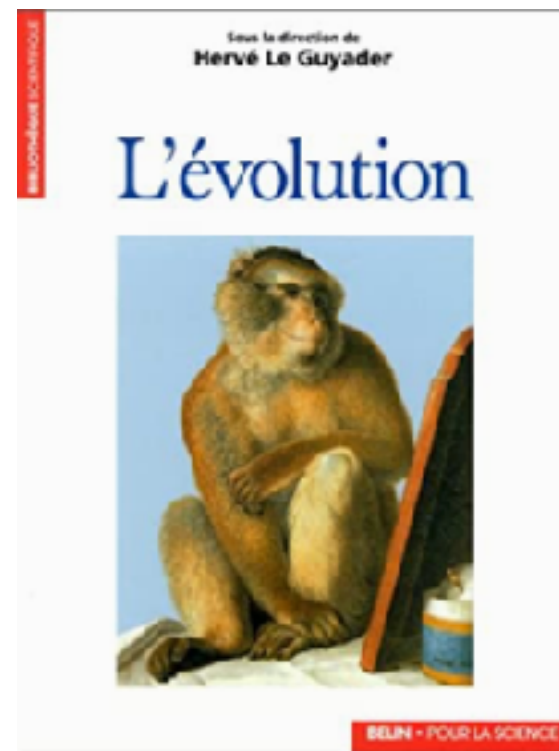


$$\frac{dN}{dt} = rN \left(1 - \frac{N}{K} \right) = rN \left(\frac{K - N}{K} \right)$$

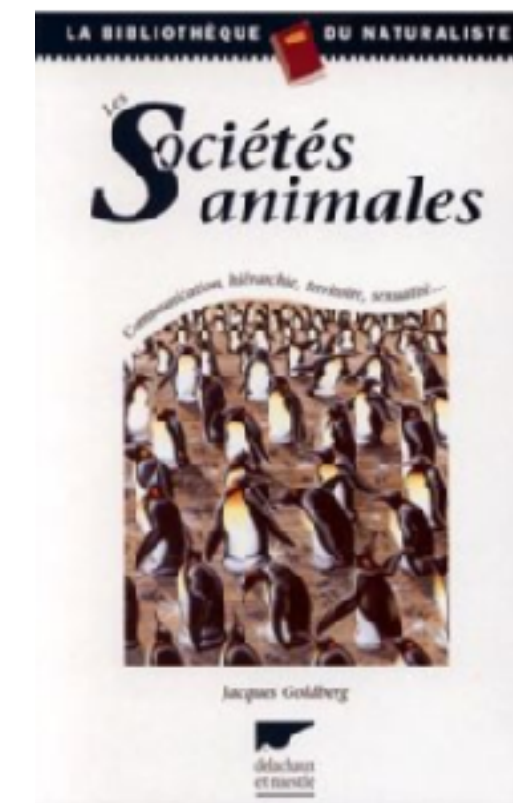
les contre sens de l'évolution



Bibliographie



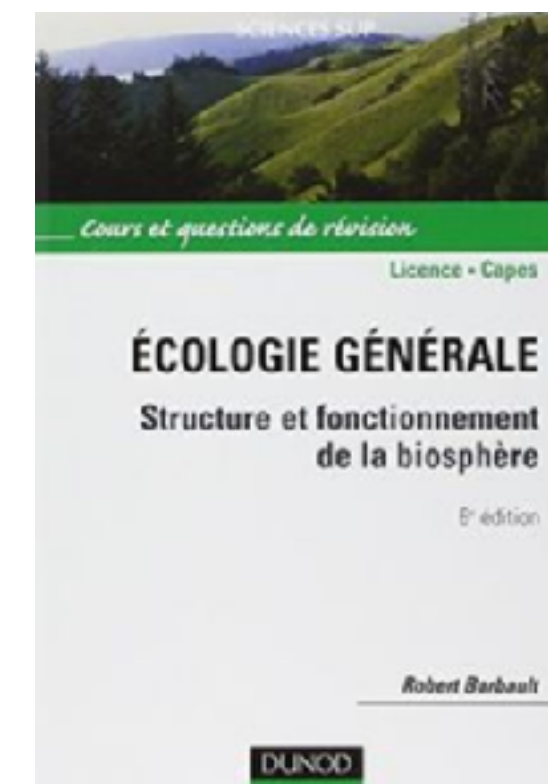
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