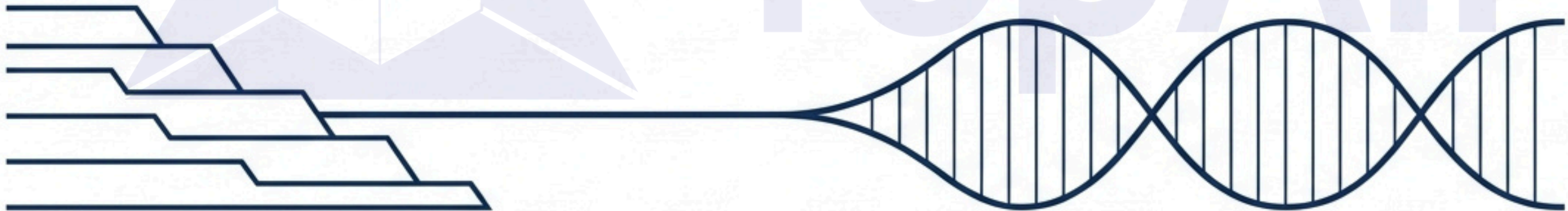
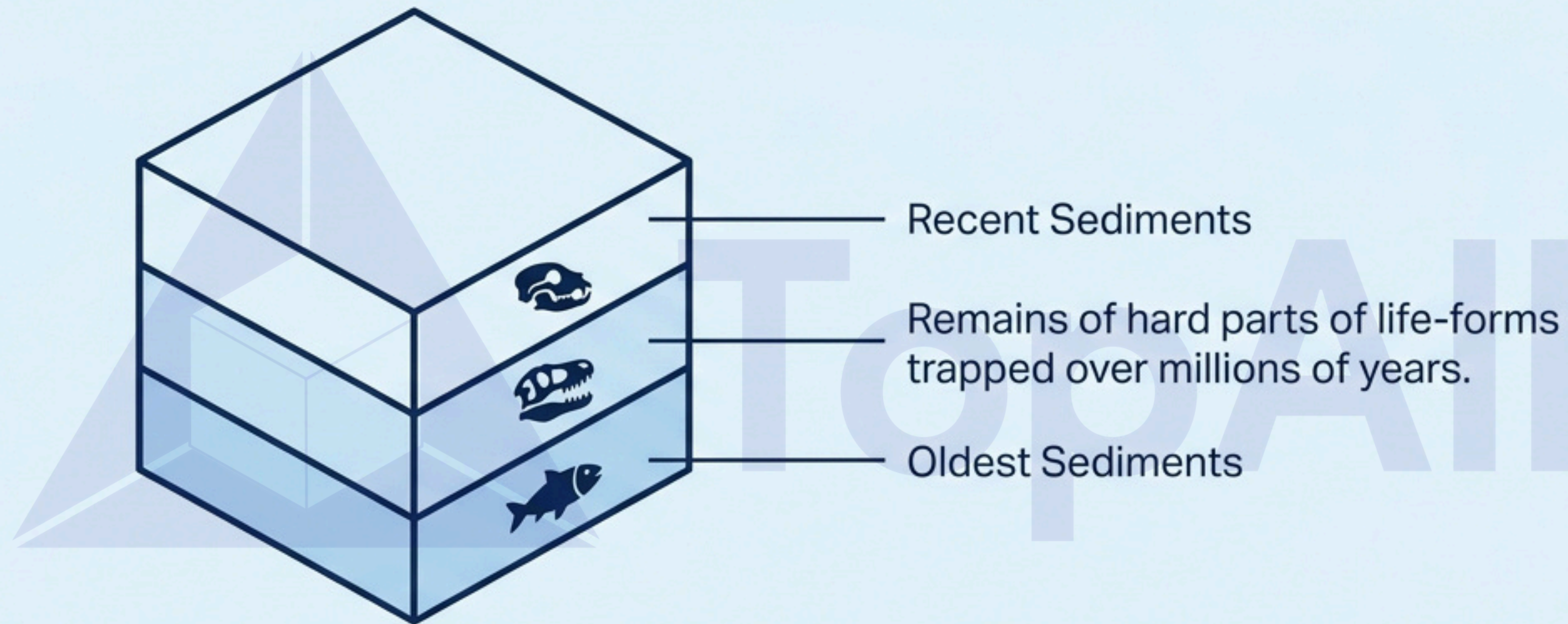


Evidence for Evolution

Paleontology, Embryology, and the Scientific Method

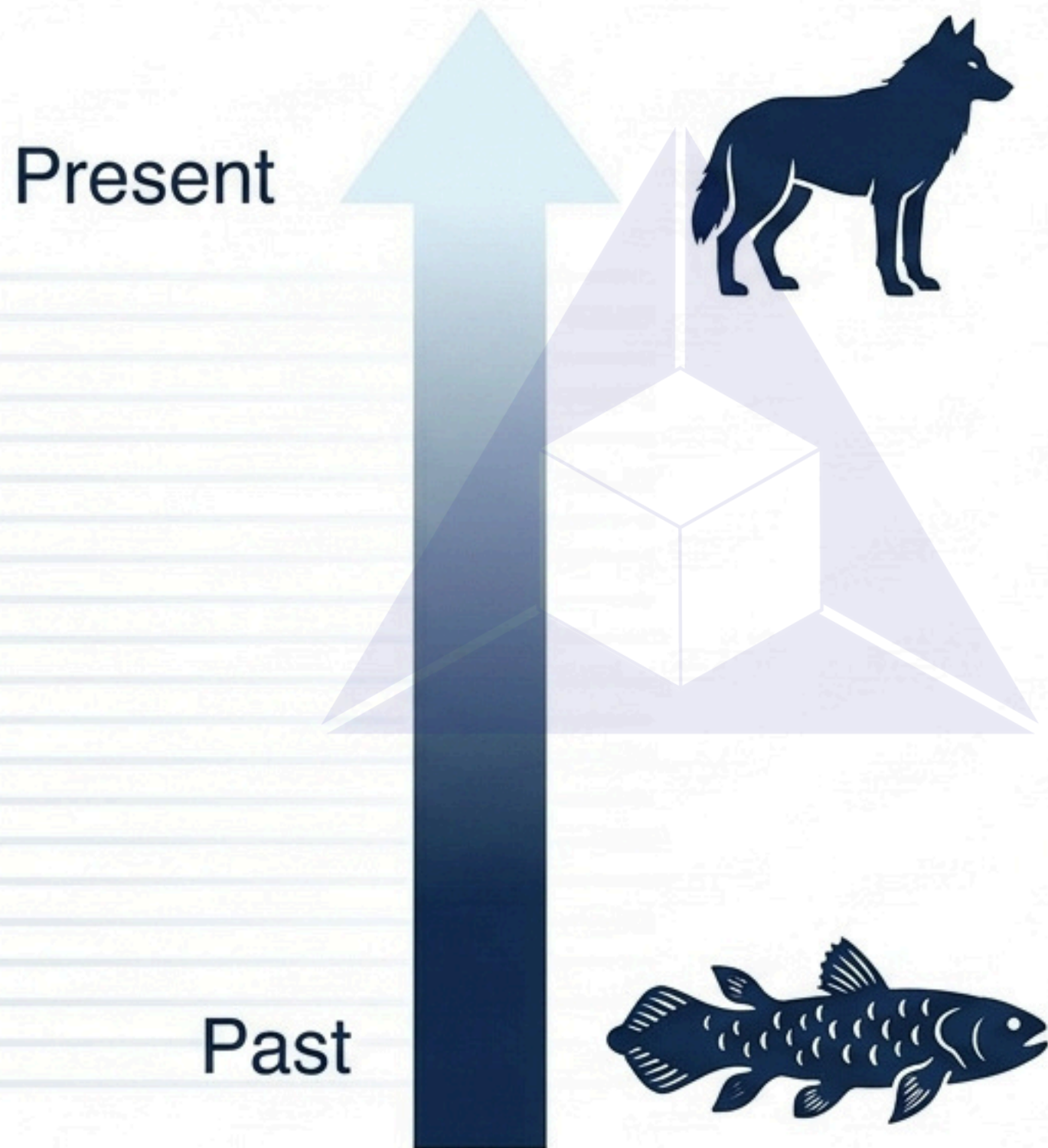


Fossils in Sedimentary Rocks



A cross-section of Earth's crust directly indicates the **chronological arrangement** of long-history sediments.

Paleontological Evidence



Life-forms varied over time.

Specific extinct organisms (like **Dinosaurs**) are heavily restricted to certain geological time-spans.



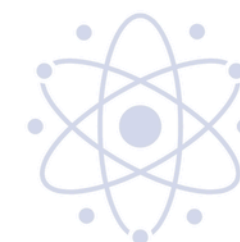
How do we know the age? Radioactive-Dating.

Measures the decay of radioactive isotopes in the surrounding rock to calculate precise fossil ages.



You've Learned the Theory. Let's Test Them Now.

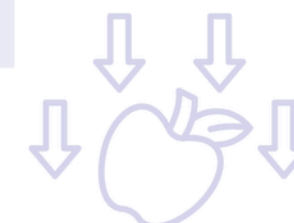
$$E=mc^2$$



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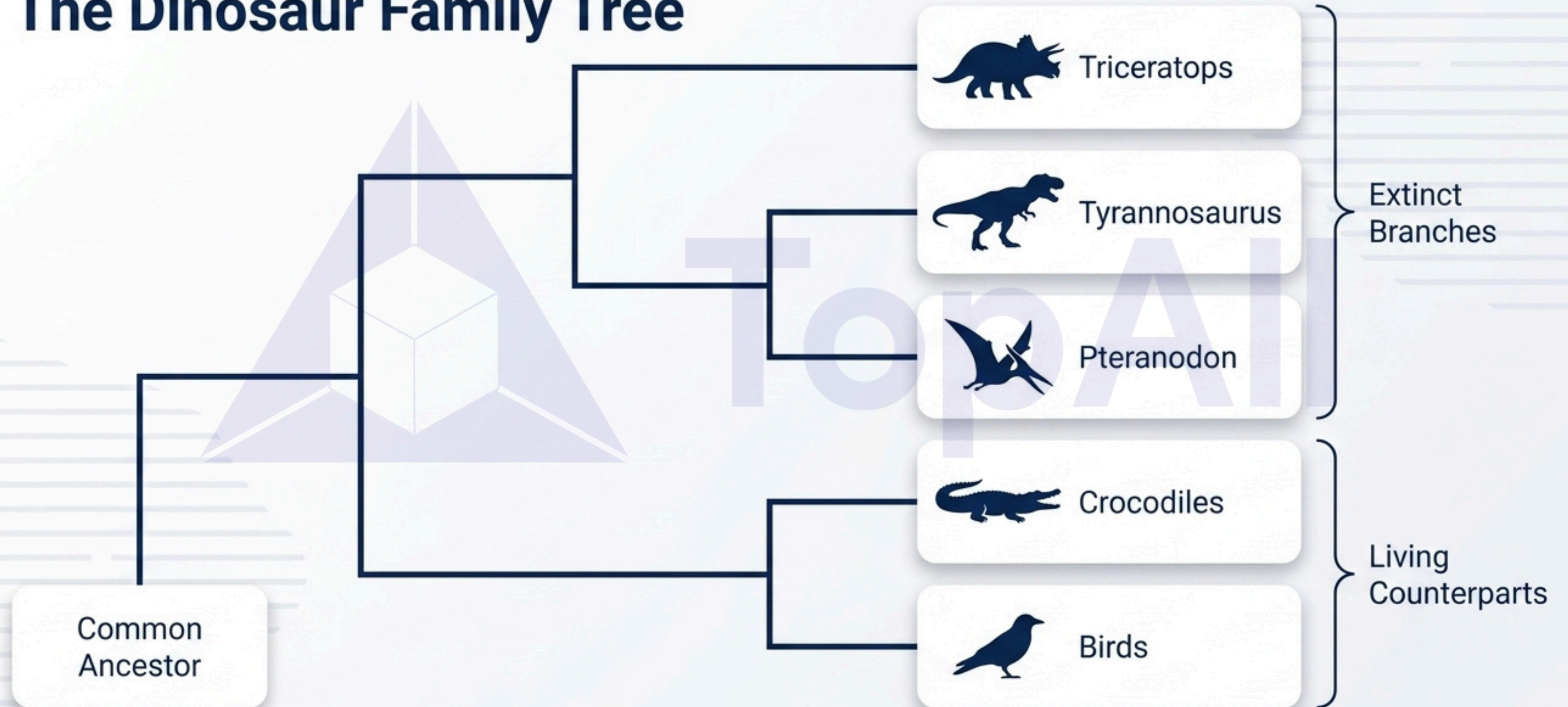
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Divergence Over Time: The Dinosaur Family Tree



Embryological Support (Ernst Haeckel)

Observation: Vertebrates share embryonic features absent in adults.



The Scientific Correction: von Baer's Criticism



Haeckel's Flaw: His theory incorrectly implied that embryos pass through the adult stages of other animals during their development.



**CORRECTED
BY**



Karl Ernst von Baer's Correction: Careful study proved embryos share embryonic stages, but **tiinism**, new **NEVER** pass through the adult stages of other animals.

Key Takeaway: Pillars of Evolutionary Evidence



Paleontology (Macro)

Depth equals time. Fossils prove life forms changed and specific species are restricted to distinct geological eras.



Embryology (Micro)

Shared developmental stages (like vestigial gill slits) point to a common ancestry among diverse vertebrates.

Synthesis: Multiple independent fields of science—from Earth's physical crust to biological development—converge to validate the theory of evolution.



You've Learned the Theory.

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