

Creeping Animals with Dry Scales

A Biological Profile of Class Reptilia

TAXONOMY: Phylum Chordata > Class Reptilia

The Origin of the Creepers

repere or rectum

to creep or crawl

Refers directly to their distinct mode of locomotion. Limbs, when present, are comprised of two pairs.

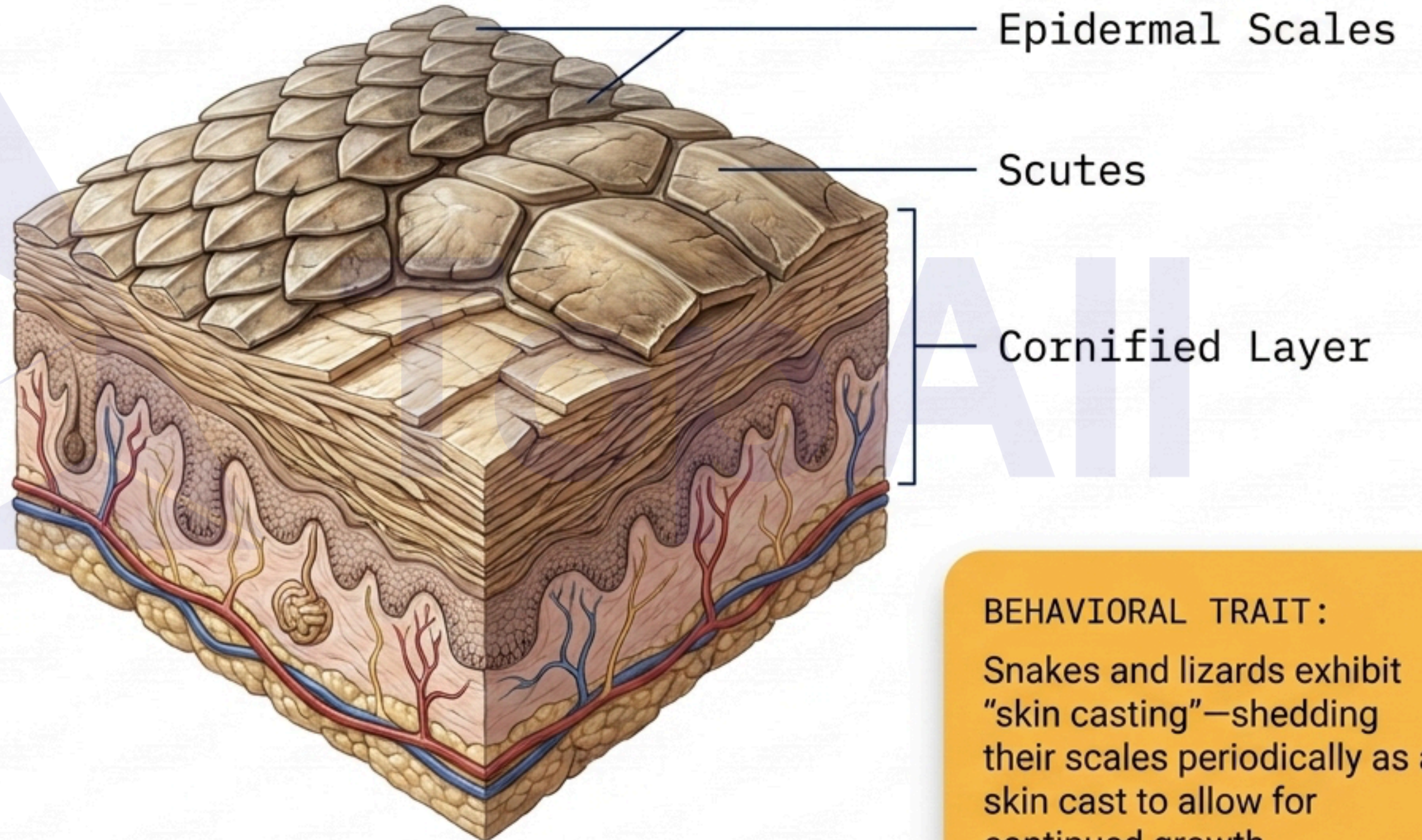


Unlike amphibians, reptiles are mostly terrestrial animals adapted to land-based environments.

EVOLUTIONARY MILESTONE: The transition to a strictly terrestrial lifestyle broke the reproductive dependency on aquatic environments.

Built for the Land: Dry & Cornified Skin

The skin is completely dry, fundamentally lacking the moisture glands found in amphibians.



BEHAVIORAL TRAIT:

Snakes and lizards exhibit "skin casting"—shedding their scales periodically as a skin cast to allow for continued growth.



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$$E=mc^2$$



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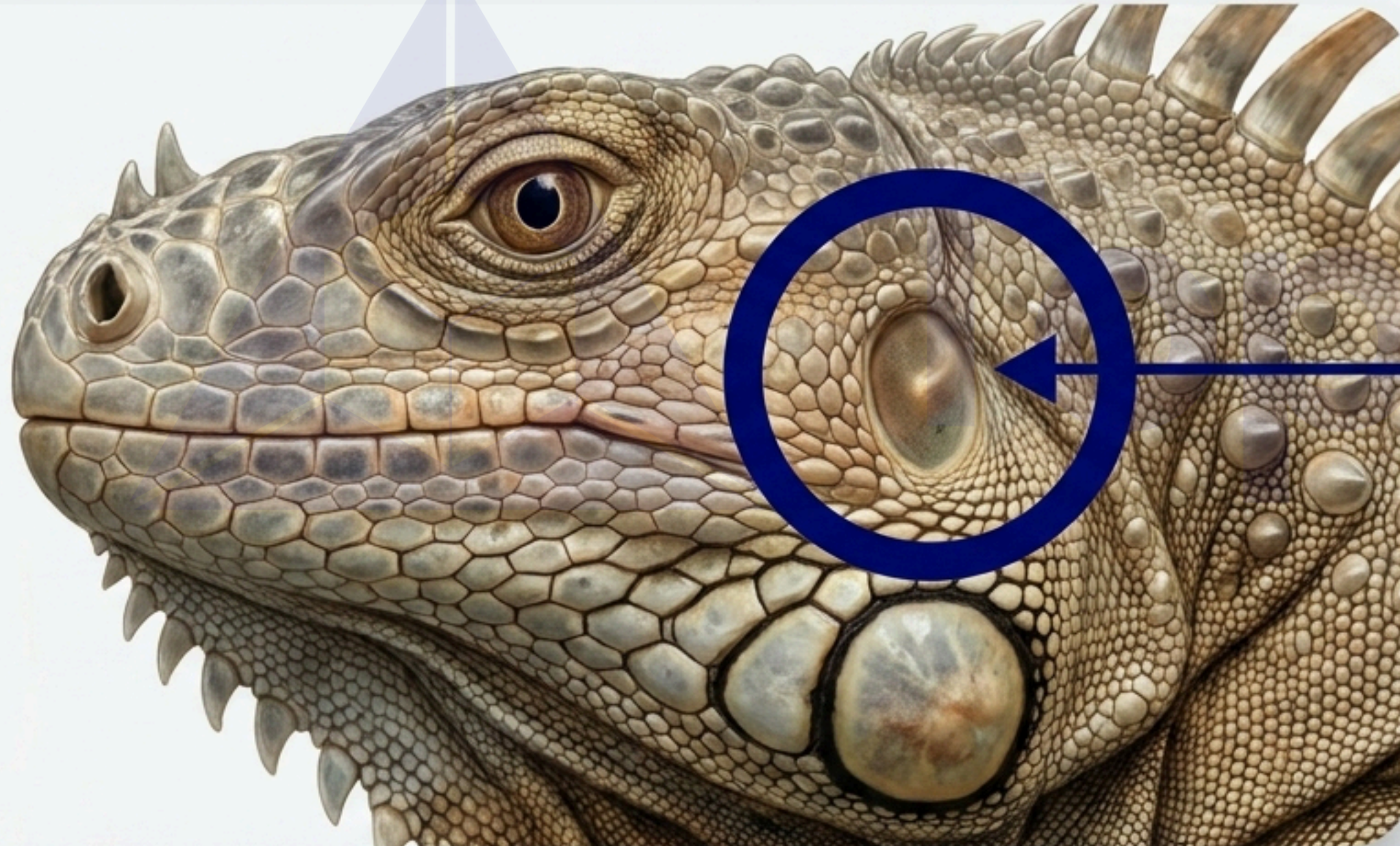
Key Highlights

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- » Push Your Limits with Level-Based Challenges
- » Climb the Leaderboard Among Fellow Aspirants
- » Practice Unlimited MCQs for NEET & JEE
- » Get Clear Explanations, Not Just Marks
- » Track Your Performance Smarter



Sensing Vibrations

Reptiles do not possess external ear openings or fleshy pinnae. Instead, sound vibrations are received directly from the environment through a specialized membrane.



Tympanum

Acts as the ear, functioning as a drum to translate external vibrations into auditory signals.

Cardiovascular Architecture

EXCEPTION:
Crocodilus / Alligator

Standard Reptile



- 2 Auricles
- 1 partially divided Ventricle

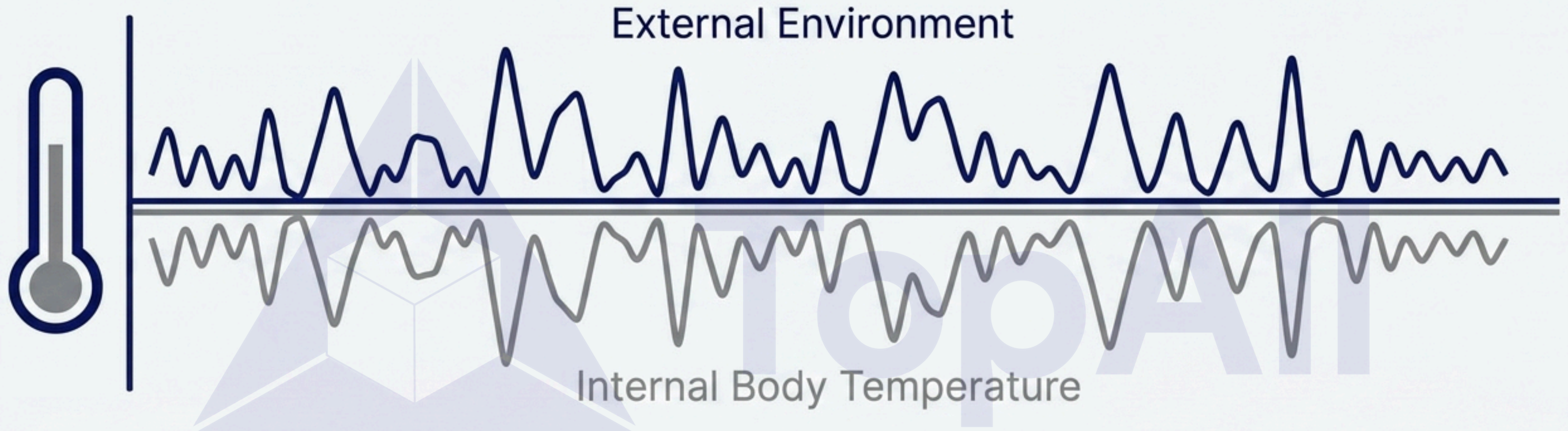
Advanced Adaptation



Crocodilians possess a fully divided four-chambered heart, anatomically bridging the evolutionary gap toward birds and mammals.

Masters of Sun and Shade

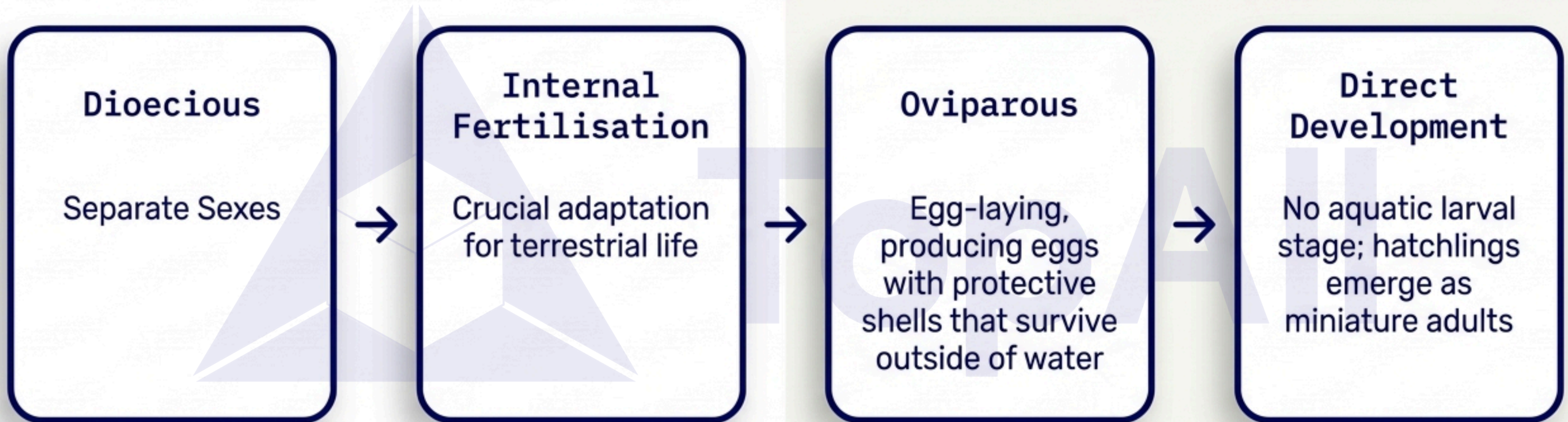
Poikilotherms (Cold-blooded)



Reptiles lack the internal physiological capacity to regulate their own body temperature.

This physiological limitation drives behavioral adaptations—relying on basking in the sun to warm up, or seeking shade to cool down.

Generation to Generation

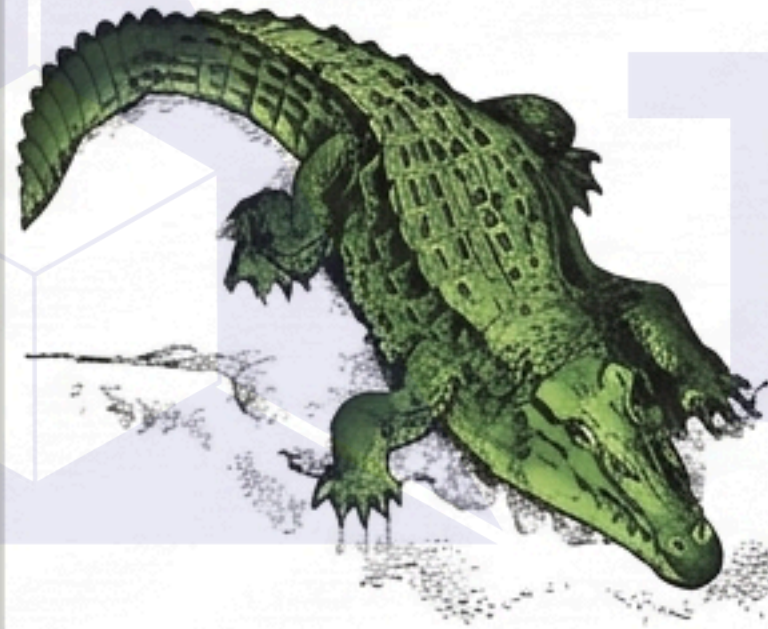


EVOLUTIONARY ADVANTAGE: Internal fertilisation combined with direct development completely freed reptiles from needing water to reproduce.

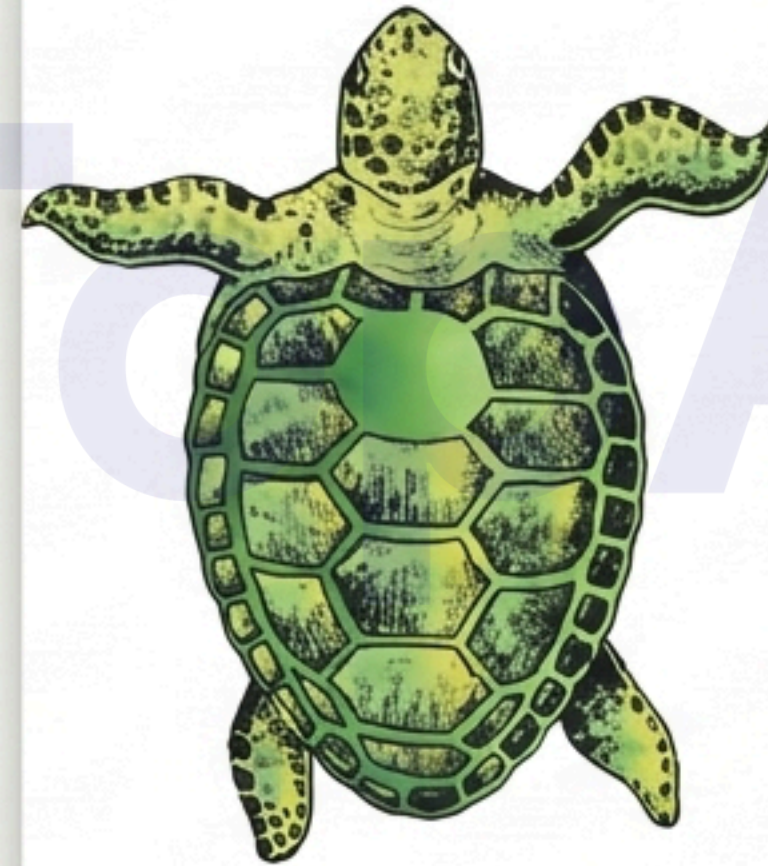
Representative Species (Fig 4.22)



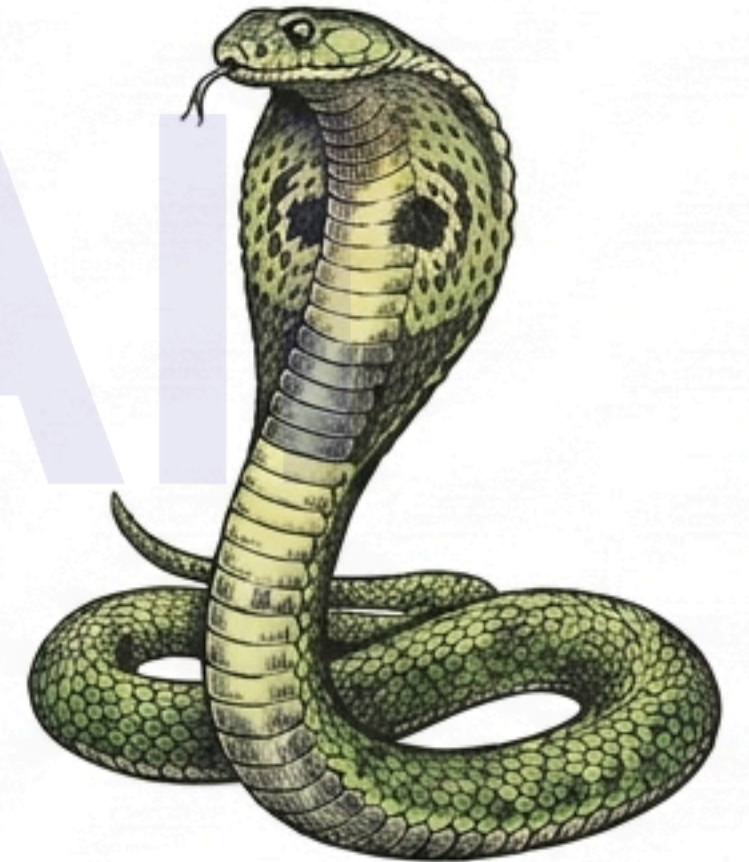
Chameleon (Tree lizard)



Crocodylus (Crocodile)



Chelone (Turtle)



Naja (Cobra)



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