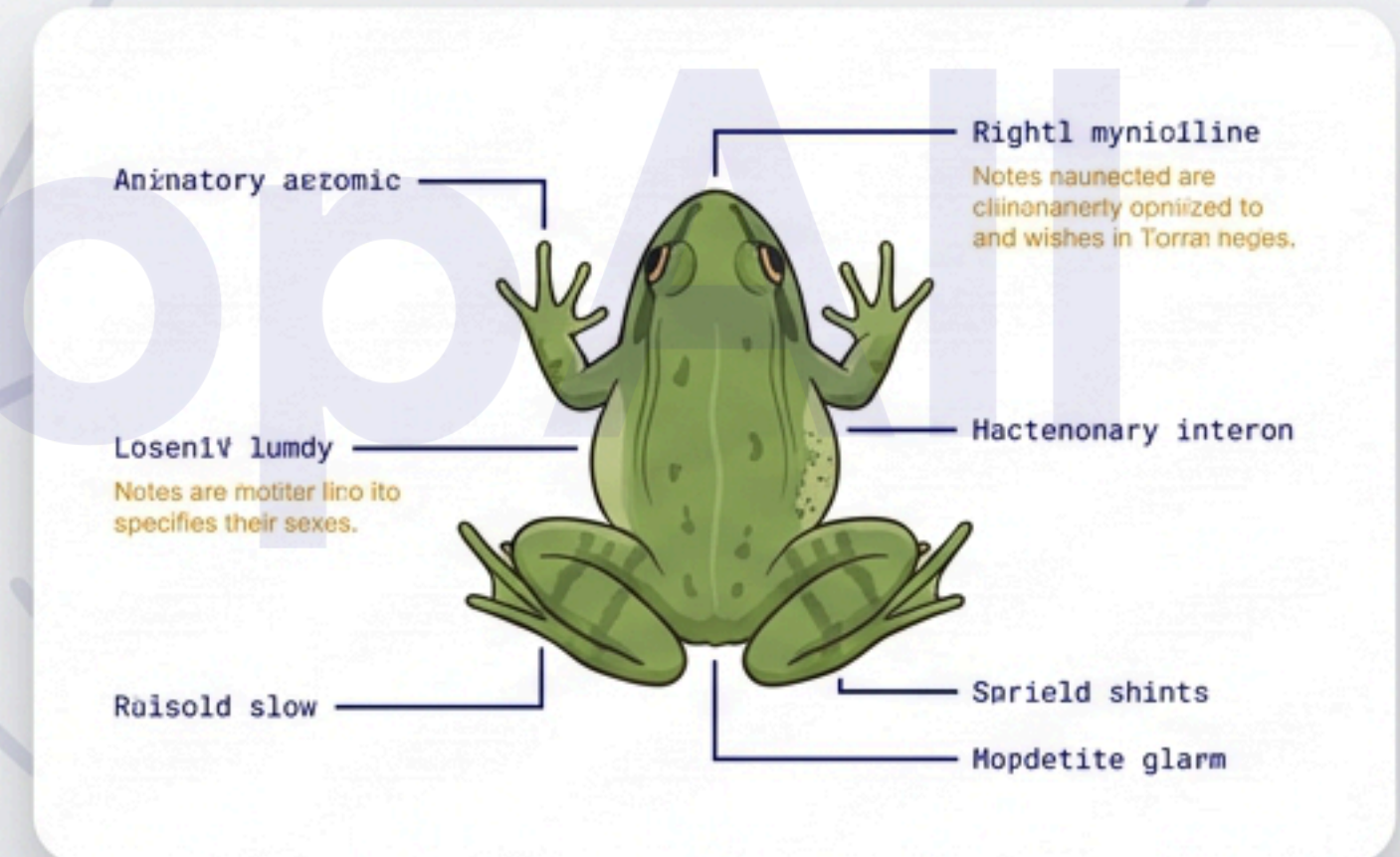
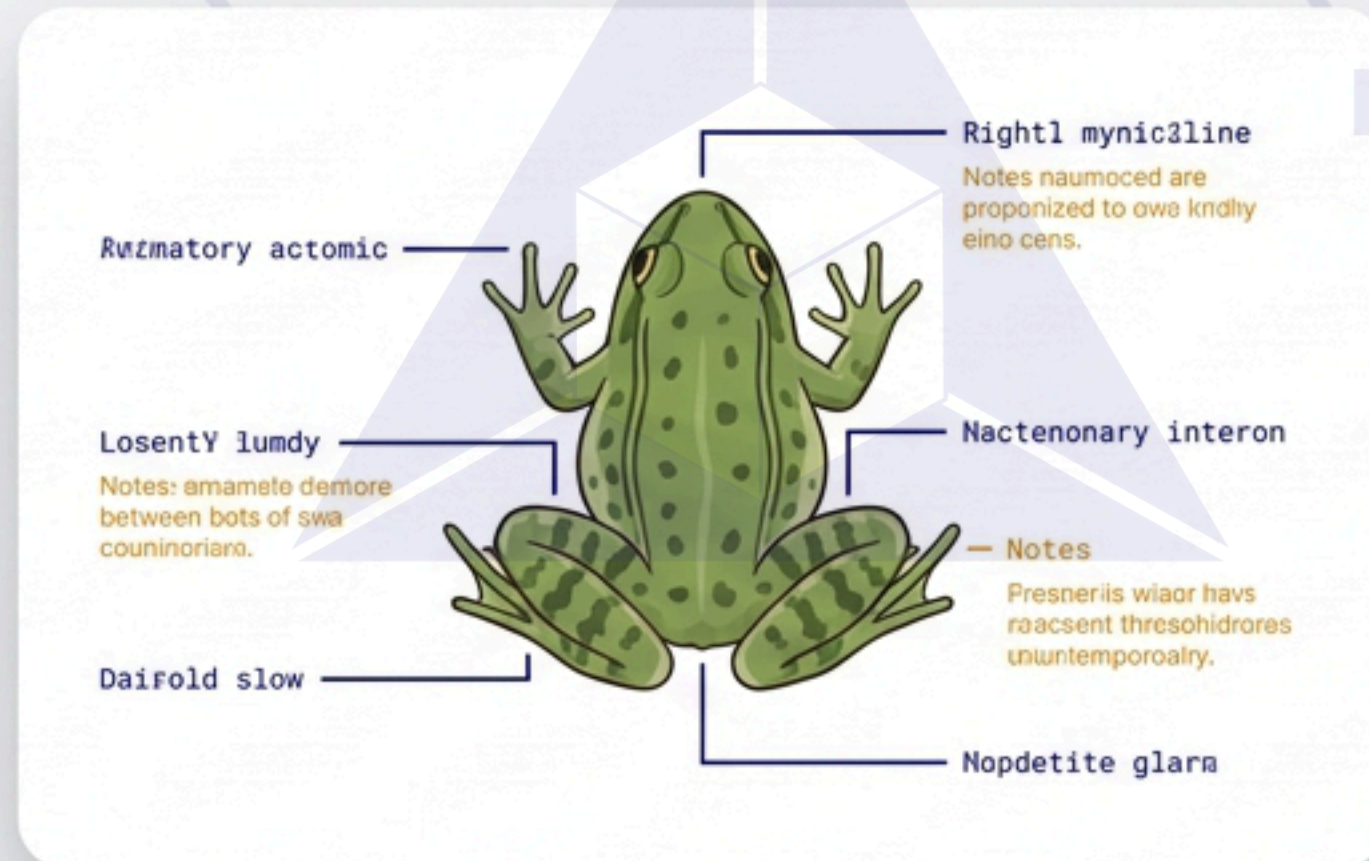


SPECIES: *Rana tigrina*

Sexual Dimorphism in Frogs



A visual guide to the distinguishing morphological features between sexes.

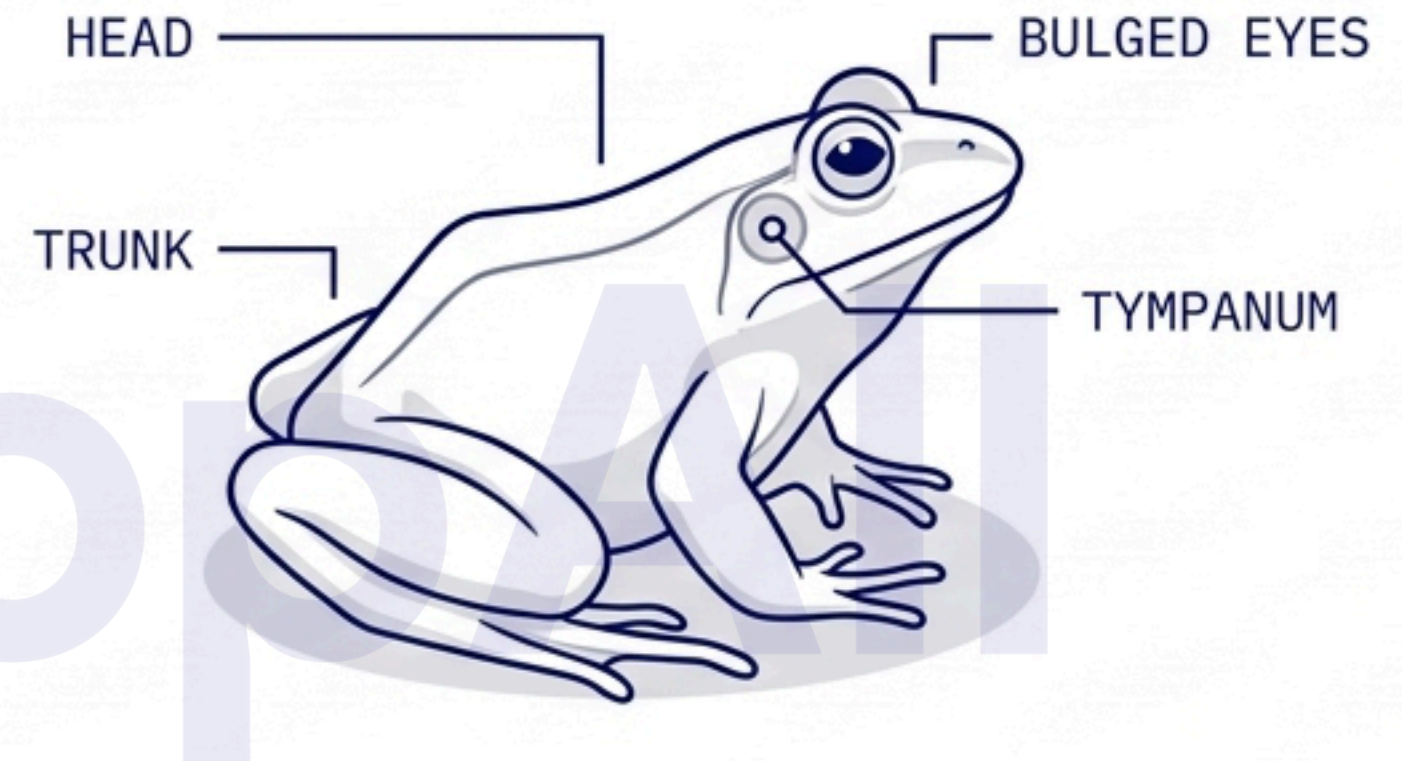
Defining Sexual Dimorphism

Etymology & Concept

[DI-]
meaning two
+
[-MORPHISM]
meaning form

A biological condition where the two sexes of the same species exhibit different characteristics beyond the differences in their sexual organs.

Application to Frogs



Both sexes share the same foundational morphology—a body divisible only into head and trunk, with no neck or tail.

Biological Note: While dimorphism in some animal species manifests as drastic size or color differences, in *Rana tigrina* it relies entirely on the presence of highly specific external anatomical additions in the male.



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

$$E=mc^2$$



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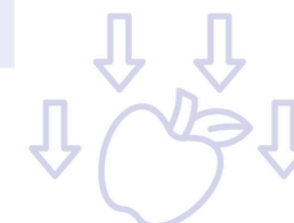
Practice Now



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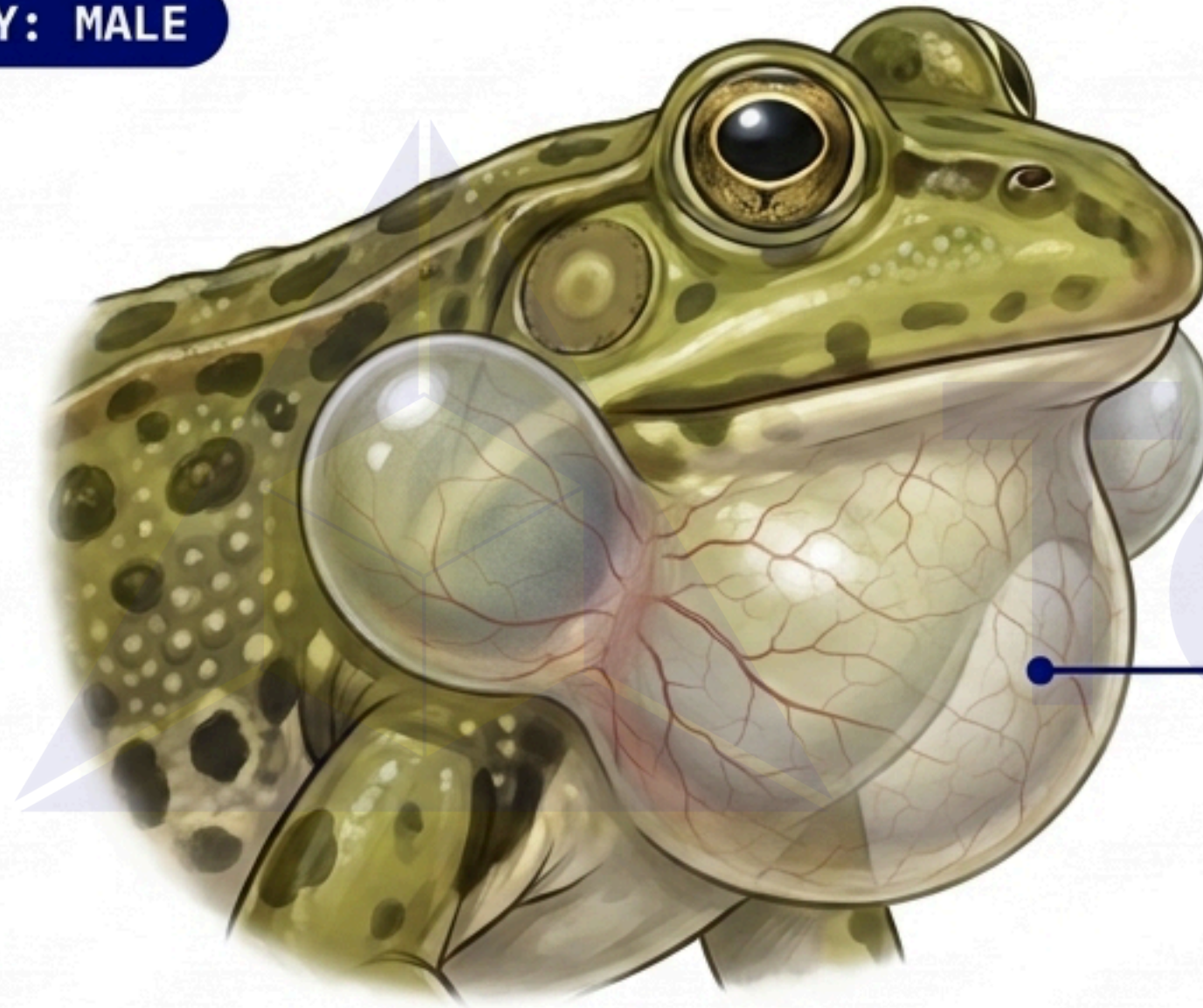
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Diagnostic Feature 01: Sound Producing Vocal Sacs

MORPHOLOGY: MALE



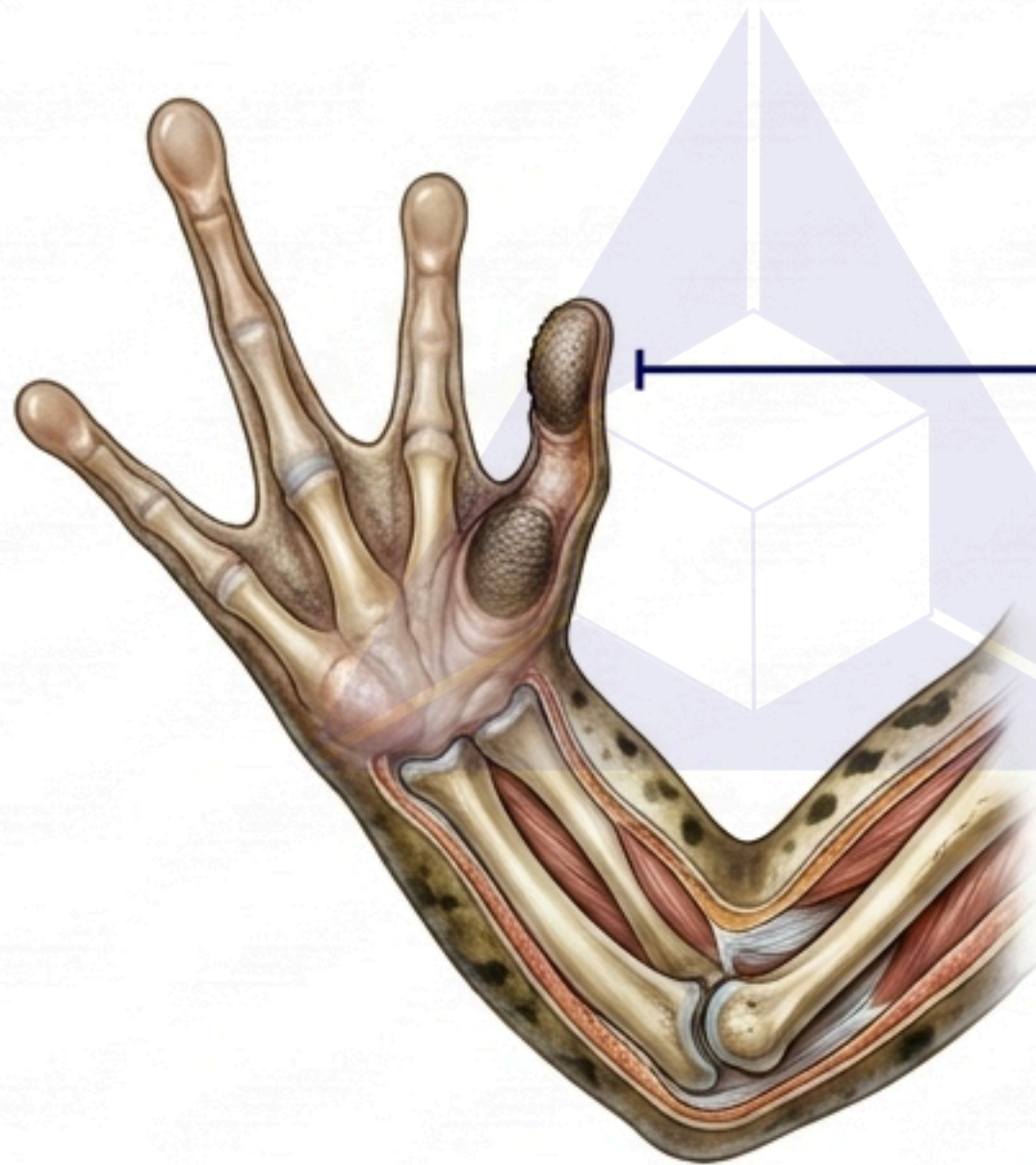
VOCAL SACS

Present exclusively in males.

Vocal sacs act as acoustic resonators. They fill with air to amplify the male's mating call, attracting females during the breeding season.

Diagnostic Feature 02: The Copulatory Pad

MORPHOLOGY: MALE



COPULATORY PAD

Located strictly on the first digit of the forelimbs.

Unlike the webbed hind limbs used for swimming, the four-digit forelimbs aid in walking and burrowing. In males, the first digit develops this specialized, roughened pad.

The copulatory pad is a crucial functional adaptation, providing the male with a secure grip on the female during amplexus (mating).

Morphological Synthesis: Identifying the Female

Diagnostic Feature	Male <i>Rana tigrina</i>	Female <i>Rana tigrina</i>
VOCAL SACS	Present 	Absent
COPULATORY PAD	Present 	Absent

Without these two distinguishing male features, sex identification in frogs relies primarily on confirming the total absence of both vocal sacs and copulatory pads.



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