

**Part IV:**

2) Character Matrix

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**Key:**

**P** 1 = PRESENT/ONE  
**A** 0 = ABSENT/NONE

← FISH → ← AMPHIBIA → ← REPTILES → ← MAMMALS →

Taxon → Character Measured ↓	Cartilaginous Fish	Bony Fish	Lobe Finned Fish	Legless Amphibia	Salamanders and Newts	Frogs	Turtles	Snakes and Lizards	Crocodiles and Alligators	Rodents (Mice)	Dogs	Monkeys
<u>Vertebral Column</u>	P 1	P 1	P 1	P 1	P 1	P 1	P 1	P 1	P 1	P 1	P 1	P 1
<u>Jaws</u>	P 1	P 1	P 1	P 1	P 1	P 1	P 1	P 1	P 1	P 1	P 1	P 1
<u>Four Limbs</u>	A 0	A 0	A 0	P 1	P 1	P 1	P 1	P 1	P 1	P 1	P 1	P 1
<u>Watertight Egg</u>	A 0	A 0	A 0	A 0	A 0	A 0	P 1	P 1	P 1	P 1	P 1	P 1
<u>Pair of Openings in Palate</u>	A 0	A 0	A 0	A 0	A 0	A 0	P 1	P 1	P 1	A 0	A 0	A 0
<u>Synapsid (single) Openings</u>	A 0	A 0	A 0	A 0	A 0	A 0	A 0	A 0	A 0	P 1	P 1	P 1

3) Cladogram: Next page