

Elephants

African elephants have been shown to have audible memory and voice recognition. They can recognize over 100 other female elephant voices even after being separated for a while.

We can dig wells for water! and cover it to save the water



Common Cuttlefish

Coral Reef Squid (Sepioteuthis sepioidea) have been observed forming schools with larger squid surrounding smaller squid. Scientists think this is a form of social behavior.



Coral Reef Squid

We can make our own tools!



American Crow

Most corvids can make tools!

The American crow can hold a grudge! They can recognize the face of other dangerous animals including people! They can also perceive places as dangerous as well.

Crows

We can solve mazes!

The California Two Spot Octopus (Octopus bimaculoides) have been trained to categorize. Scientists taught them to choose odd shaped shells in a patterned sequence for treats!



California Two Spot Octo

Cephalopods (octopus, cuttlefish and squid)

WHAT DEFINES INTELLIGENCE?

Self-control
Causal and inferential reasoning

Mental attribution
Future planning

Episodic-like memory

Self-recognition



SOURCES

Photos

Inaturalist - Alexis (CC-BY-NC) (two spot octopus)
Inaturalist - Georgina Jones (CC BY-SA) (Common Cuttlefish)
Inaturalist - Matteo Cassella (CC BY-NC) (coral reef squid)
Inaturalist - Markus Lilje (CC BY-NC-ND) (african elephant)
Inaturalist - Monika, (CC-BY-NC) (american crow)

Information

Schnell, Alexandra K., et al. "How intelligent is a cephalopod? Lessons from comparative cognition." Biological Reviews 96.1 (2021): 162-178.
Ikeda, Yuzuru. "A perspective on the study of cognition and sociality of cephalopod mollusks, a group of intelligent marine invertebrates 1." Japanese Psychological Research 51.3 (2009): 146-153.
Bates, Lucy A., Joyce H. Poole, and Richard W. Byrne. "Elephant cognition." Current Biology 18.13 (2008): R544-R546.
Marzluff, John W., et al. "Lasting recognition of threatening people by wild American crows." Animal Behaviour 79.3 (2010): 699-707.

Be kind to animals! They are smarter than you think!

Animal Intelligence

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Do you ever wonder what animals are thinking? How smart are they? Can they understand Mozart? Can they....play Mozart??? Well, not that we know of but science has shown us that many different animals are capable of complex thinking and multi-step problem solving!



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