

## Interesting facts (Some about octopus)

### 1. Do Octopuses have the ability to change their color?

Octopuses can change their color for camouflage, communication and mood expression. They can do this because of thousands of specialized cells called chromatophores present in their body. Chromatophore cells have sacs of colored pigments like yellow, black, and red. These cells open after the contraction of muscles present surrounding them and the muscle contraction is under the control of the nervous system. Because of these pigment-containing cells, they are able to change their color, shape, and texture and blend with their surroundings.

### 2. Is the statement “octopuses are Intelligent” correct?

Compared to other invertebrates, octopuses have a greater number of neurons, and their nervous system is also different, which allows for both central and local control of their activity. Octopuses are able to solve mazes and they have short-term and long-term memory. They can differentiate between different shapes and patterns. They are also able to use tools, like stones and coconut shells, for building shelters. They are quick learners and use their intelligence to solve their problems.

### 3. Which is the largest known species of octopus?

The Giant Pacific octopus is the largest among all the species of octopus. Their average weight is about 50-110 lb, and they have an arm span of about 14–16 feet. Their whole body is boneless except for its beak, which is like a parrot's beak and hard. Their average life span is about 3–5 years. They live in the Northern Pacific Ocean from California to Japan. They always make their shelter in caves and crevices. They are nocturnal hunters and paralyze their prey by using venom.

### 4. Which is the smallest species of octopus?

The Star-sucker pygmy octopus is the smallest among all the species of octopus. Their average length is about 1.5–2.5 cm, and they weigh about 1 g. They are mainly found in shallow and coastal waters of the Western Pacific Ocean.

## References

- <https://en.wikipedia.org/wiki/Chromatophore>
- [https://en.wikipedia.org/wiki/Giant\\_Pacific\\_octopus](https://en.wikipedia.org/wiki/Giant_Pacific_octopus)
- [https://en.wikipedia.org/wiki/Octopus\\_wolffi](https://en.wikipedia.org/wiki/Octopus_wolffi)