

Comparison Of Sharks With Bony Fish

Fish species diversity is roughly divided equally between marine (oceanic) and freshwater ecosystems. Coral reefs in the Indo-Pacific constitute the centre of diversity for marine fishes, whereas continental freshwater fishes are most diverse in large river basins of tropical rainforests, especially the Amazon, Congo, and Mekong basins. More than 5,600 fish species inhabit Neotropical freshwaters alone,... b4884ffaaf Most fish are cold-blooded, their body temperature varying with the surrounding water, though some large, active swimmers like the white shark and tuna can maintain a higher core temperature. Many fish can communicate acoustically with each other, such as during courtship displays. The study of fish is known as ichthyology... b4884ffaaf Most bony fishes are covered with the cycloid scales... b4884ffaaf Fish fins are distinctive anatomical features with varying internal structures among different clades: in ray-finned fish (Actinopterygii), fins are mainly composed of spreading bony spines or "rays" covered by a thin stretch of scaleless skin, resembling a folding fan; in lobe-finned fish (Sarcopterygii) such as coelacanths and lungfish, fins are short rays based around a muscular central bud internally supported by a jointed appendicular skeleton; in cartilaginous fish (Chondrichthyes) and jawless... b4884ffaaf Scales vary enormously in size, shape, structure, and extent, ranging from strong and rigid armour plates in fishes such as shrimpfishes and boxfishes, to microscopic or absent in fishes such as eels and anglerfishes. The morphology of a scale can be used to identify the species of fish it came from. Scales originated within the jawless ostracoderms, ancestors to all jawed fishes today. b4884ffaaf

List of largest fish With the extinct *Otodus megalodon* exceeding all other fish extant and extinct (excluding tetrapods) in size. Frill sharks and cow sharks (*Hexanchiformes*) The largest of the frill sharks and cow shark is the bluntnose sixgill shark (*Hexanchus griseus*) Fish vary greatly in size. The extant whale shark and basking shark exceed all other fish by a considerable margin in weight and length. 4 kg (34 lb). Fish in the common usage are a paraphyletic group that describes aquatic vertebrates while excluding the tetrapods, four limbed vertebrates nested within the lobe-finned fish, which include all land vertebrates and their nearest extinct relatives b4884ffaaf

Coral reefs occupy less than 1% of the surface area of the world oceans, but provide a home for 25% of all marine fish species. Reef habitats are a sharp contrast to the open water habitats that make up the other 99% of the world oceans. b4884ffaaf

Osteichthyes They can be contrasted with the Chondrichthyes (cartilaginous fish) and the extinct placoderms and acanthodians, which have endoskeletons primarily composed of cartilage. The vast majority of extant fish are members of Osteichthyes, being an extremely diverse and abundant group consisting of 45 orders, over 435 families and 28,000 species. pattern that is in between the tooth rows of sharks and true bony fishes. Despite the name, these early basal bony fish had not yet evolved ossification and Osteichthyes (ost-ee-IK-theez; from Ancient Greek ὀστέον (ostéon) 'bone' and ἰχθύς (ikhthús) 'fish'), also known as osteichthyans or commonly referred to as the bony fish, is a diverse clade of vertebrate animals that have

endoskeletons primarily composed of bone tissue b4884ffaaf

The group is divided into two main clades, the ray-finned fish (Actinopterygii, which makes up the vast majority of extant fish) and the lobe-finned fish (Sarcopterygii, which gave rise... b4884ffaaf

Diversity of fish Although most fish species have probably been discovered and described, about 250 new ones are still discovered every year. According to FishBase about 34,800 species of fish had been described as of February 2022, which is more than the combined total of all other vertebrate species: mammals, amphibians, reptiles and birds. include sharks, rays and chimaera. Tiger shark Whale shark Stingray This elephant fish is a chimaera Bony fish include the lobe-finned fish and the ray Fish are very diverse animals and can be categorised in many ways b4884ffaaf

However, loss and degradation of coral reef habitat, increasing pollution, and overfishing including the use of destructive fishing... b4884ffaaf

Fish jaw The primary oral jaws open and close the mouth, and a second set of pharyngeal jaws are positioned at the back of the throat. Most bony fishes have two sets of jaws made mainly of bone. The primary oral jaws open and close the mouth, and a second set of pharyngeal jaws are positioned Most bony fishes have two sets of jaws made mainly of bone. The pharyngeal jaws, so-called because they are positioned within the pharynx, are used to further process the food and move it from the mouth to the stomach. The oral jaws are used to capture and manipulate prey by biting and crushing b4884ffaaf

Fish scale The skin of most jawed fishes is covered with these protective scales, which can also provide effective camouflage through the use of reflection and colouration, as well as possible hydrodynamic advantages. Most bony fishes are covered with the A fish scale is a small rigid plate that grows out of the skin of a fish. The term scale derives from the Old French escale, meaning a shell pod or husk. species of fish it came from. Scales originated within the jawless ostracoderms, ancestors to all jawed fishes today b4884ffaaf

Coral reef fish The whitetip reef shark Coral reef fish are fish which live amongst or in close relation to coral reefs. Coral reefs form complex ecosystems with tremendous biodiversity. Among the myriad inhabitants, the fish stand out as colourful and interesting to watch. Other species of reef sharks include the Galapagos shark, the tawny nurse shark and hammerheads. bony fishes and cephalopods. Reef fish have developed many ingenious specialisations adapted to survival on the reefs. Hundreds of species can exist in a small area of a healthy reef, many of them hidden or well camouflaged b4884ffaaf

Cartilaginous fishes, such as sharks and rays, have one set of oral jaws made mainly of cartilage. They do not have pharyngeal jaws. Generally jaws are articulated and oppose vertically, comprising an upper jaw and a lower jaw and can bear numerous ordered teeth. Cartilaginous fishes grow multiple sets (polyphyodont) and replace teeth as they wear by moving new teeth laterally... b4884ffaaf This list therefore excludes the various marine reptiles and mammals, such as the extinct ichthyosaur, plesiosaur and mosasaur reptiles (none of which are dinosaurs) and the extant sirenia and cetacea mammals

(such as the marine tetrapod blue whale, generally considered to be the largest animal known to have... b4884ffaaf

Atlantic sharpnose shark Commonly consumed fish include menhaden The Atlantic sharpnose shark (*Rhizoprionodon terraenovae*) is a species of requiem shark in the family Carcharhinidae. The diet of the Atlantic sharpnose sharks mostly consists of bony fish, worms, shrimp, crabs, and mollusks. It is found in the subtropical waters of the north-western Atlantic Ocean, between latitudes 43°N and 18°N. deep b4884ffaaf

Fish fin clades: in ray-finned fish (Actinopterygii), fins are mainly composed of spreading bony spines or "rays" covered by a thin stretch of scaleless skin, resembling Fins are moving appendages protruding from the body of fish that interact with water to generate thrust and lift, which help the fish swim. Apart from the tail or caudal fin, fish fins have no direct articulations with the axial skeleton and are attached to the core only via muscles and ligaments b4884ffaaf

Shark true sharks underwent great diversification. The earliest confirmed modern sharks (Selachii) are known from the. Some sources extend the term "shark" as an informal category including extinct members of Chondrichthyes (cartilaginous fish) with a shark-like morphology, such as hybodonts. Sharks largely replaced the hybodonts, which had previously been a dominant group of shark-like fish during Sharks are a group of elasmobranch cartilaginous fishes characterized by a ribless endoskeleton, dermal denticles, five to seven gill slits on each side, and pectoral fins that are not fused to the head. Shark-like chondrichthyans such as *Cladoselepe* and *Doliodus* first appeared in the Devonian Period (419–359 million years), though some fossilized chondrichthyan-like scales are as old as the Late Ordovician (458–444 million years ago). Modern sharks are classified within the division Selachii and are the sister group to the Batomorphi (rays and skates) b4884ffaaf

Fish into the more basal jawless fish and the more common jawed fish, the latter including all living cartilaginous and bony fish, as well as the extinct placoderms A fish is an aquatic, anamniotic, gill-bearing vertebrate animal with swimming fins and a hard skull, but lacking limbs with digits. Fish can be grouped into the more basal jawless fish and the more common jawed fish, the latter including all living cartilaginous and bony fish, as well as the extinct placoderms and acanthodians. In a break from the long tradition of grouping all fish into a single class ("Pisces"), modern phylogenetics views fish as a paraphyletic group b4884ffaaf

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