vesicular, giving a rough imitation of a lung. The gar-pike too, is capable of a vertical motion of the head; that is, unlike all other modern fishes, it has a neck, and can raise the. head, like a reptile. The ancient ganoids were certainly not less reptilian than the modern ones. The possession of bouy armor is also a reptilian prerogative; and it may be added, that the teeth of the ancient ganoids were truly reptilian. Those of Onychodus were strikingly so. As in reptiles, too, the vertebral column continued to the end of the tail. Thus the ancient Ganoids possessed several reptilian characters; while in general form, they were fish-like; in aquatic respiration, in many rayed fins, in cranial and general skeletal structure they were fishes. Thus the ancient Ganoids, and to a similar extent, the modern ones, were a comprehensive type. They anticipated reptiles; they were prophetic of reptiles. Later the ganoid type was resolved. The ichthyic characters were retained in one organism, and the reptilian were gathered together in a different organism. Now, we can not avoid feeling interest in the question: How did it occur that an animal on the whole a fish, should incorporate in its structure. features of a class which was yet far in the future? And what was the purpose of such a combination? I will try to express my views on these questions when I come to a Talk on the method of creation.

The Amphibians are a comprehensive type. They are comprehensive as a whole—as a class-conception; and within the class are subordinate or ordinal types which are specially comprehensive. Structurally they partake of the natures of fishes and of reptiles. They are fish-like in branchial respiration during early life. They are fish-like in the possession of bi-concave vertebræ; in having two occipital condyls, and in other less conspicuous characters of the skull; in the organs which serve as kidneys; and among Batrachians (frog-like) in the double septum which divides the orbits—which is a ganoid character. They are reptilian in breathing air in adult life; in the possession of appendages for locomotion on land, and in the undivided ventricle of the heart. The nervous