

nipresent Being. This reasoning is so simple and so spontaneous that it has been held in high esteem ever since the epoch of Aristotle.

But there are some persons who tell us that the design in a pump is obvious, because we can fathom the mind which made it; but the design of the pump in us, which does the same work, can not be granted, because we neither know who made it, nor for what purpose it was made, nor whether there was any purpose. This language seems very strange to an unsophisticated intelligence; but human intuitions are not to be balked by any such studied and presumptuous nonsense. I set it down as a first principle of intelligence, that coördination in structure or action, implies *intention*. Finding things so coördinated in nature—for instance, the ball and socket of a joint—we feel inclined to affirm that they were *intended to serve as a joint*; and I believe they were. But *suppose* they were not so intended; these are structures most accurately adjusted to each other—that is not the result of chance. There are not only the fitting shapes, but the ligament which holds them together; the investing membrane which incloses the joint in a bag; the sinovial fluid which lubricates it; the solid bosses on the bones, suitable for the attachment of muscles; the muscles capable of working the joint, and no end of other structures all tributary to the action of the joint. If now, after all, we pretend to complete ignorance of any use or action designed in these structures, we can not possibly resist the conviction that these various things came together *through some intention*. Coördination of parts—simply and alone—regardless too, of the authorship—implies intention. That is a principle of the universal reason. To question it is to dispute with the “multiplication table.”

Glance next, at the prevalence of *plans* in the world. There is the plan of vertebrate structure; I have often made mention of it. In the modification of the plan for beings so diverse, with such different homes and native elements, and instincts and functions, as those which have been formed, it is wonderful that a simple conception should persist through all