Polymorphism promotes extensibility because you have one method in a superclass being sent (extent) to a variety of methods in subclasses that has many forms of results. This reduces substantial lines of codes as new classes can be added with little or no modification to the general portions of the program, as long as the new classes are part of the inheritance hierarchy of the program. In effect new classes can extend the same base method, which allows extensibility. The commonality of the same base method allows for faster updates and building of features and extended functionality based on the base core.