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MVC Paper

What is a MVC and how is it used in swift? MVC stands for Model View Controller and is a software development pattern. In software engineering, a software design pattern is a reusable solution to commonly occurring problems within a given context or code. Now the “model” portion of “MVC” is where your data is located. Things like managers,model objects, parsers,etc. The “view” is the face of your app or screen that you (the user) can visibly see. The “controller” portion is the mediation between the two (View and Model) from the delegation pattern. Normally the controller entity won’t know the concrete view it’s dealing with so instead it communicates with an abstraction via a protocol. Example: UITableView connecting to its data source UITableViewDataSource.

OOP programs have many benefits by adapting the MVC design pattern for their designs. Now that MVC has been adapted, the programs are much more reusable and more interchangeable with better defined interfaces. Because of this MVC has become one of the more prominent choices in delegation patterns in technology.

Some pros for MVCs are as follows: Multiview of the same model, easier for collaborators to work together, easier to update the applications, multiple levels written properly which allows for easier debugging, and there are pluggable views and controllers. There are also a few notable cons however that developers have complained about. For example, the learning curve is a little much for classic style developers; potentially excessive updates, inevitability of change to view and controller when porting; close coupling of views and controllers to a model.