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# MVC Overview

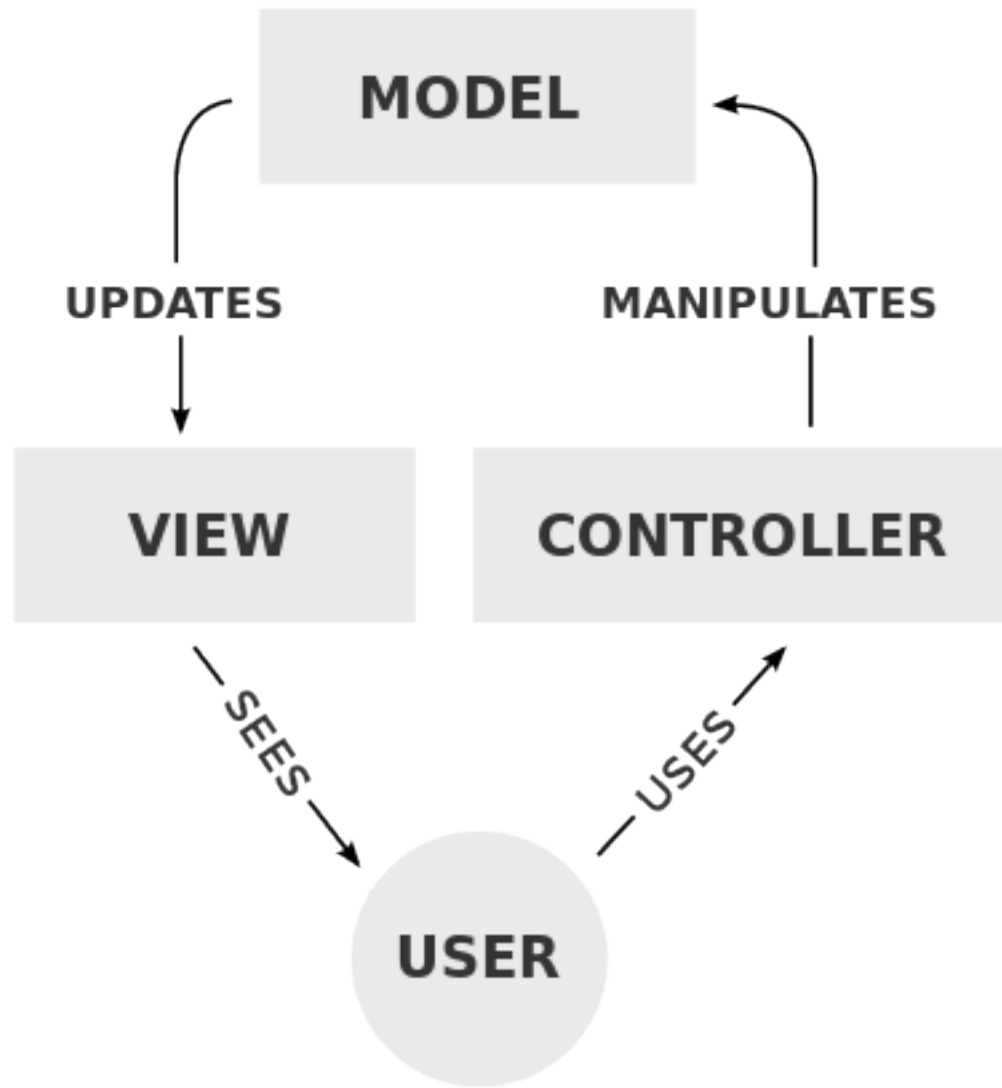
- A software architectural pattern for implementing user interfaces
- Divides a given software application into three interconnected parts that provide abstraction

# History

- Introduced by Trygve Reenskaug in the 1970s
- Integrated into Smalltalk-76
- Expressed as a general concept for the first time in 1988 in an article in The Journal of Object Technology

# Three Components

- Model
  - Consists of application data, business rules, logic and functions
- View
  - Can be any output representation of information, such as a chart or a diagram
  - Multiple views of the same information are possible
- Controller
  - Accepts input and converts it to commands for the model or view



# Model

- Notifies its associated view and controls when there has been a change in its state
- Notification allows the view to produce updated output, and the controllers to change the available set of commands
- Can also be passive and components must poll the model for updates
- This is the backend database that stores the object information

# View

- Requests information from the model that it needs for generating an output representation to the user
- This is the UI, what the user sees and interacts with

# Controller

- Sends commands to the model to update its state
- It can also send commands to its associated view to change the view's presentation of the model
- This is the business logic that controls everything
- The meat of the application



# Videos!

- [https://www.youtube.com/watch?v=LiBdzE\\_DJn4](https://www.youtube.com/watch?v=LiBdzE_DJn4)
- [https://www.youtube.com/watch?v=eTdVkgF\\_Slo](https://www.youtube.com/watch?v=eTdVkgF_Slo)
- [0-4:17]  
<https://www.youtube.com/watch?v=lwwznm9XSME>
- [10:10-21:50]  
[https://www.youtube.com/watch?v=AAcc\\_uZ3fdU](https://www.youtube.com/watch?v=AAcc_uZ3fdU)