

COMP531-Web Development

Backbone.js

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backbone.js is ...

- A very light framework that enables us to organize our Javascript codes in MVC style
- Has less than 1000 lines of javascript core codes
- Supply structures for heavy javascript applications

How backbone.js work...

Model, Collection and View

Model - retrieves and populates the data

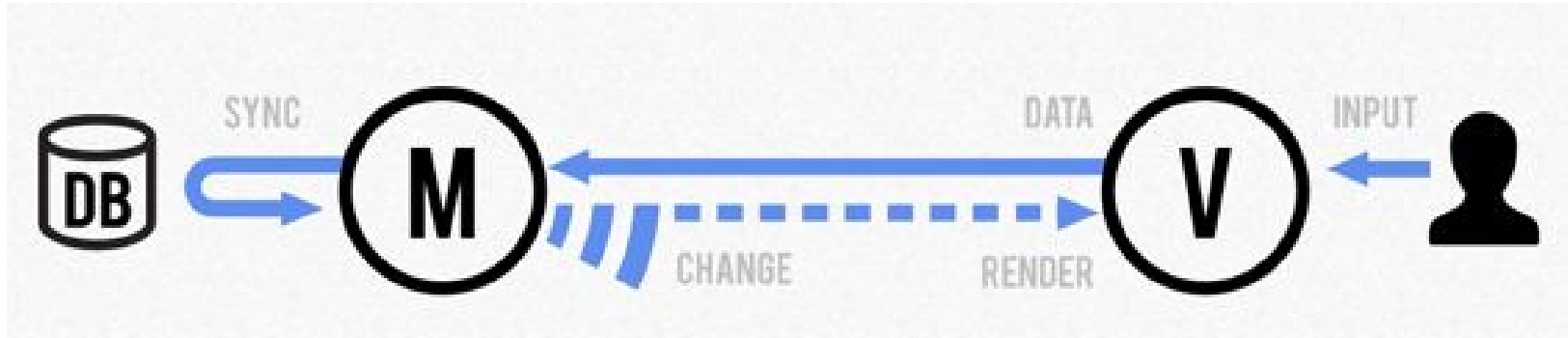
Collection - ordered sets of Model objects

View - the HTML representation of Model and Collection

Events - trigger when any component changes

How backbone.js work...

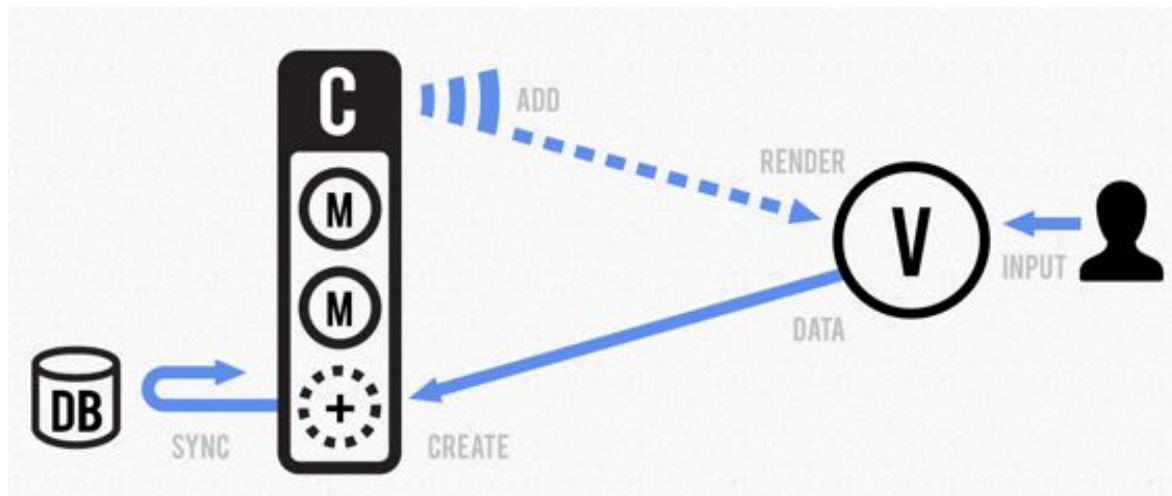
Model and View



Picture cited from [1]

How backbone.js work...

Collection and View



Picture cited from [1]

Advantages compared to reactJs

- Very lightweight thus very fast
- A great foundation to build our own framework on
- Codes are very simple and well documented
- Components are highly decoupled and well organized

drawbacks compared to reactJs

- Needs a lot of work to decide many details on how to structure the applications, such as choose specific plugins
- State changes may lead to memory leaks if memory management is not properly handled
- Lacks the support for two-way data binding
- A few changes to CSS may disable the CSS selector

Summary

- Useful in structuring our javascript codes into MVC style
- Highly decoupled --- Flexible
- Extensible

References

[1] <http://backbonejs.org/>

[2] <https://cdnjs.com/libraries/backbone.js/tutorials>

[3] <https://roost.bocoup.com/blog/why-backbone/>

Thank you