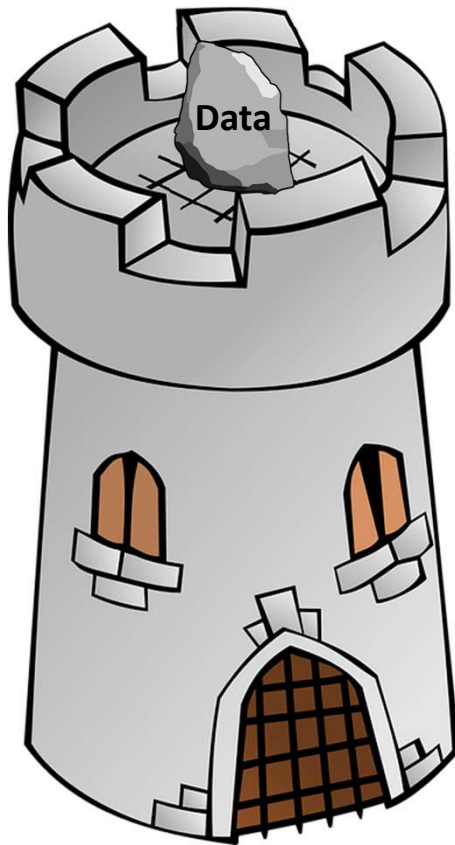


MODULE 4

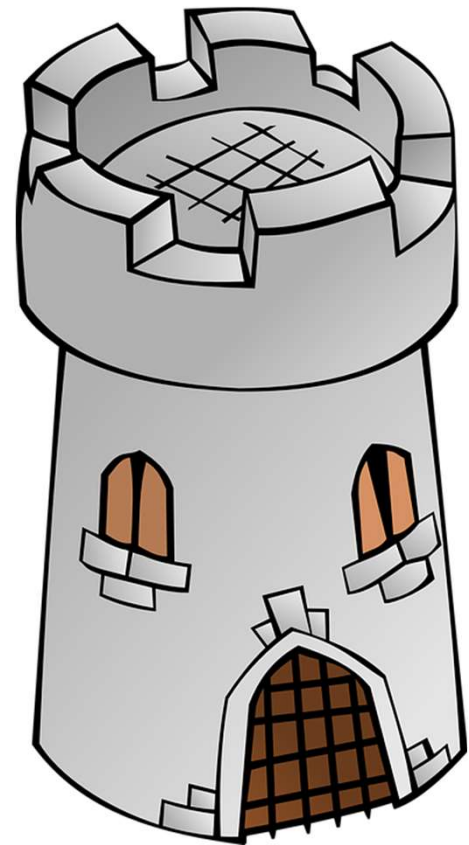
Vue Component Communication



Components are Stand Alone

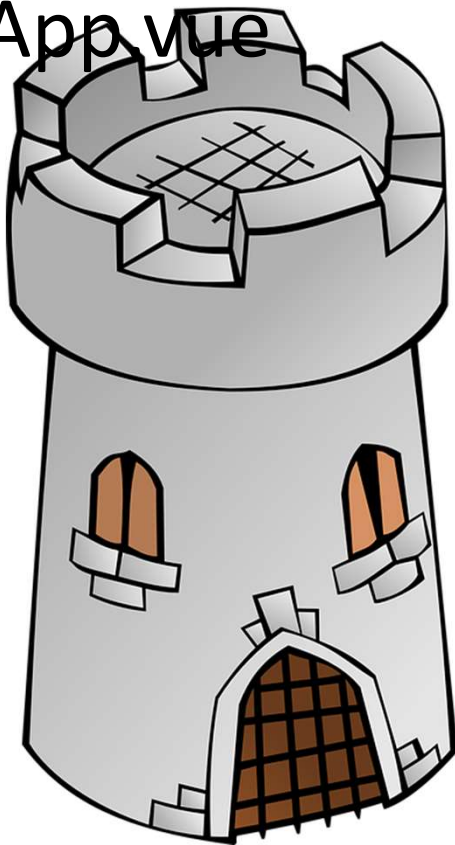


A component is able to contain all of the data, behavior, UI, and general layout needed to run itself and should not need to rely on anything outside of itself to get its own job done.

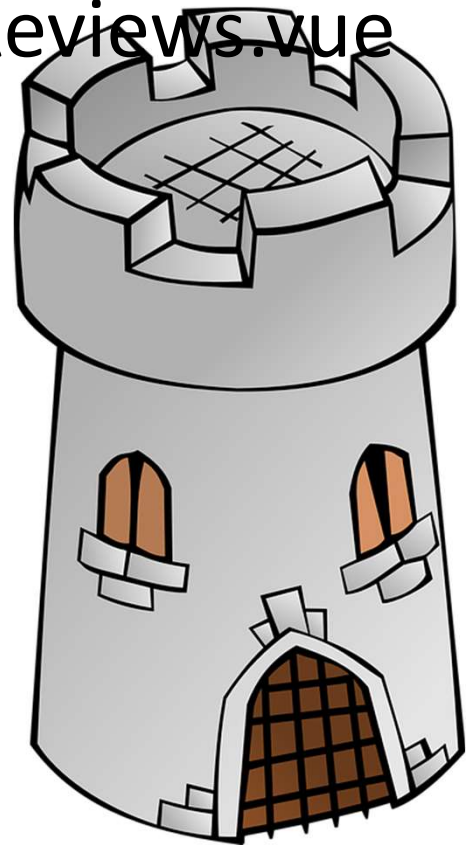


props

App.vue



ProductReviews.vue



props

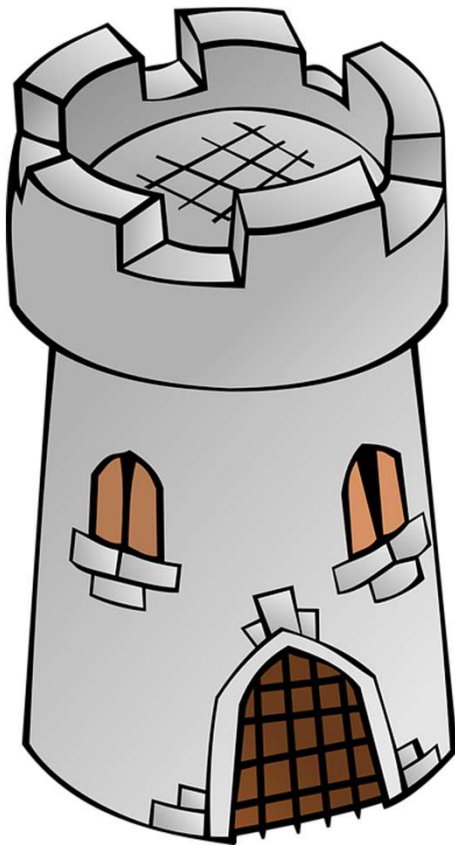
App.vue

```
<product-reviews></product-reviews>  
</product-reviews>
```

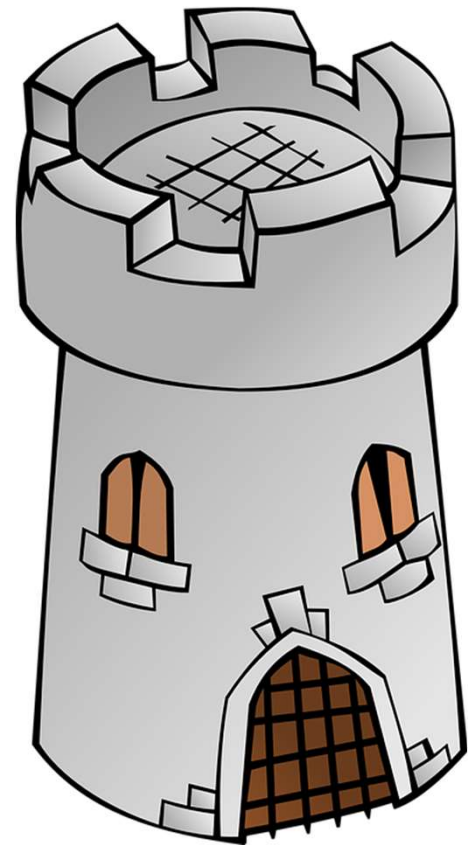
ProductReviews.vue

```
export default {  
  name: 'product-reviews',  
  props: ['review'],  
  data() { ... }  
}
```

Components are Stand Alone



A component is able to contain all of the data, behavior, UI, and general layout needed to run itself and should not need to rely on anything outside of itself to get its own job done.



Product Reviews for Cigar Parties for Dummies

Host and plan the perfect cigar party for all of your squirrely friends.

2.75	1	0	2	1	0
Average Rating	1 Star Review	2 Star Reviews	3 Star Reviews	4 Star Review	5 Star Reviews

Name:

Title:

Rating:

Review:

Save

Cancel

Malcolm Gladwell

★★★★★ What a book!

It certainly is a book. I mean, I can see that. Pages kept together with glue and there's writing on it, in some language.

Favorite? ☐

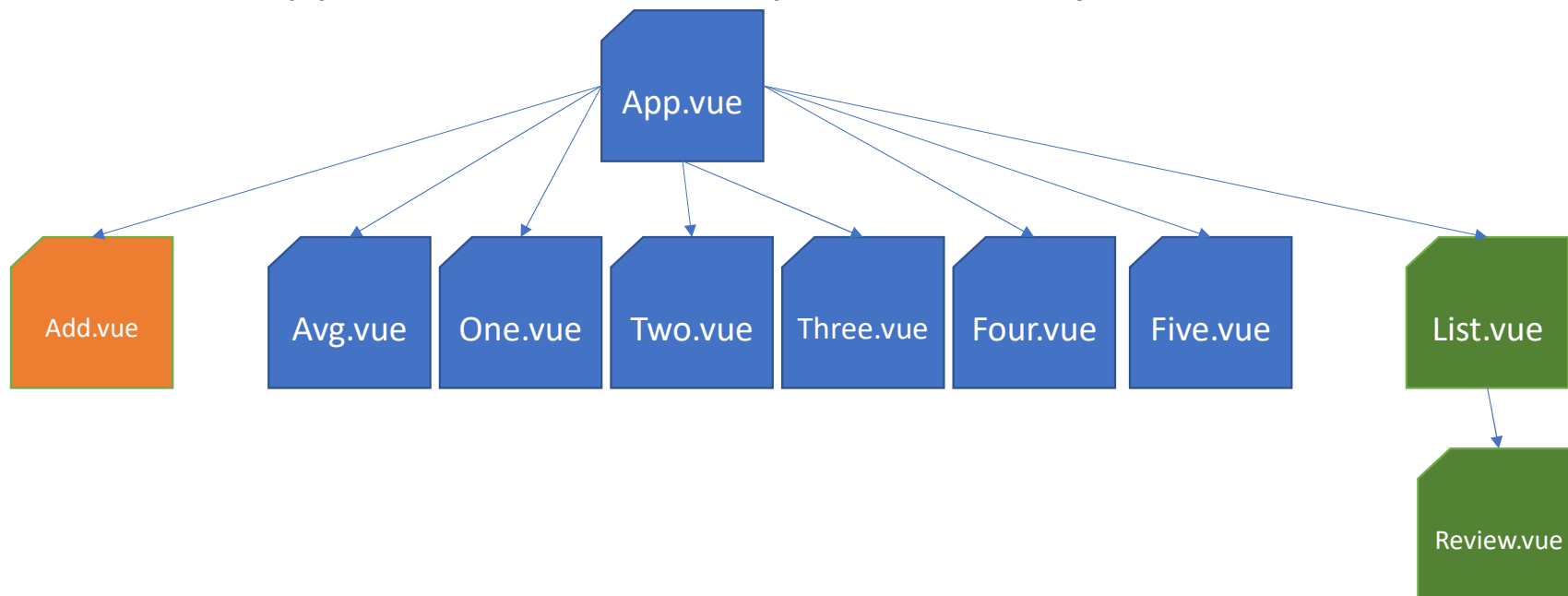
Tim Ferriss

★★★★★ Had a cigar party started in less than 4 hours.

It should have been called the four hour cigar party. That's amazing. I have a few ideas for more

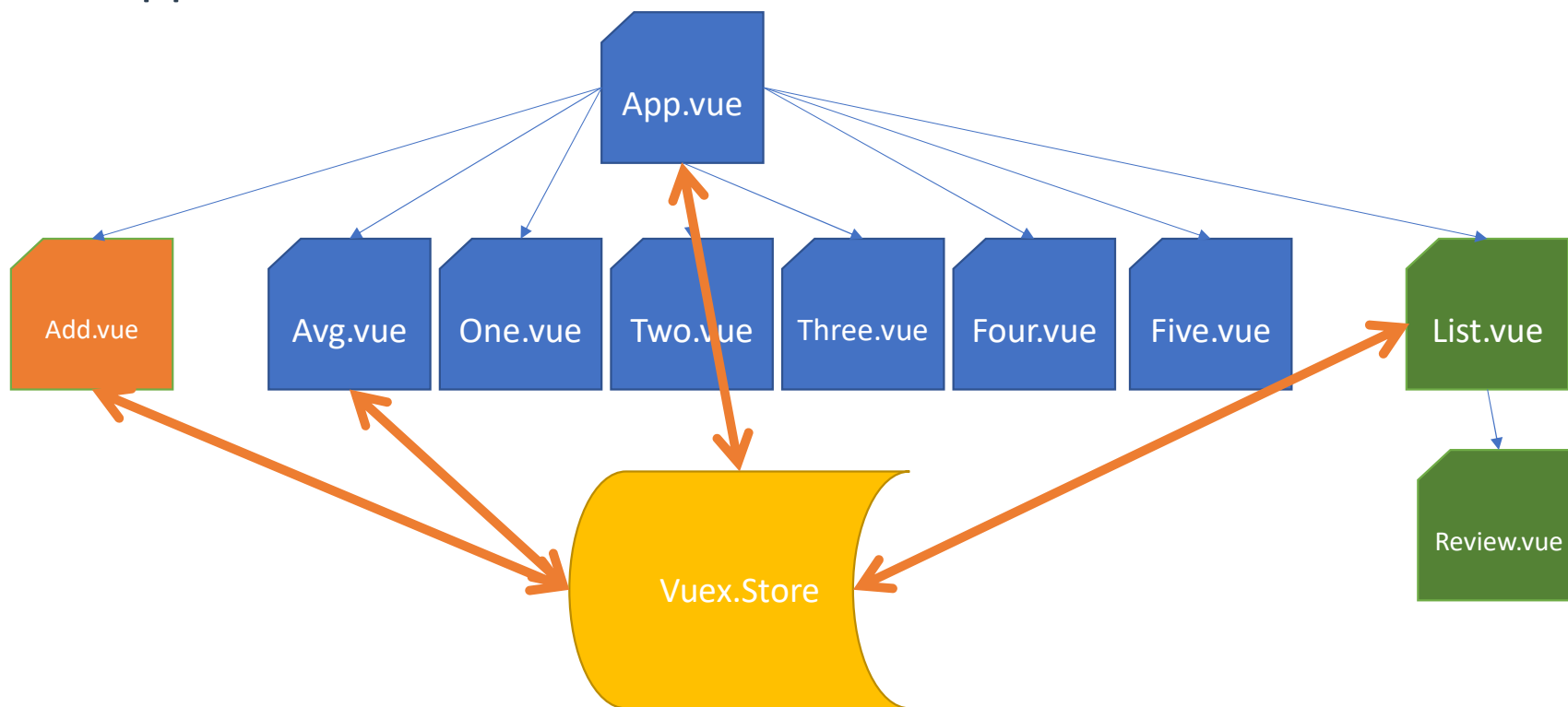
Single Responsibility Principle (SRP)

- The Single Responsibility Principle (SRP) states that each component in the application should only handle one job.



Vuex – Shared Data Store

- **Vuex** is a state management pattern and library for Vue.js applications.



Vuex – index.js

```
export default new Vuex.Store({
  state: {
    reviews: [
      {
        reviewer: 'Malcolm Gladwell',
        title: 'What a book!',
        review:
          "It certainly is a book. I mean, I can see that. Pages kept together with glue",
        rating: 3,
        favorited: false    },
      {
        reviewer: 'Tim Ferriss',
        title: 'Had a cigar party started in less than 4 hours.',
        review:
          "It should have been called the four hour cigar party. That's amazing. I had",
        rating: 4,
        favorited: false    }
    ]
  },
  mutations: {},
  actions: {},
  modules: {}
});
```

ProductReviews.vue

```
let review = $store.state.reviews[0]
```

```
<div v-for='review in $store.state.reviews'
```

Protect the State!

**State
Object**



Bad Data
Hackers
Broken Integrity

Mutations

- Methods to change, or mutate, the data in the store
- Like C# methods to access private properties.

```
mutations: {  
  ADD_REVIEW(state, review) {  
    state.reviews.unshift(review);  
  },  
  UPDATE_FILTER(state, filter) {  
    state.filter = filter;  
  },  
  FLIP_FAVORITED(state, reviewToChange) {  
    reviewToChange.favorited = ! reviewToChange.favorited;  
  }  
}
```

Call Mutation from Component

```
methods: {  
  addNewReview() {  
    this.$store.commit("ADD_REVIEW", this.newReview);  
    this.resetForm();  
  }  
}
```

Vuex – Summary

- Provides a shared data store for all components
- State can be read from the store:
 - `$store.state.<propertyName>`
- State can only be changed through special methods called mutations
- All components that use `$store.state` will automatically update when the `$store.state` changes.



LET'S CODE!



ELEVATE  YOURSELF

WHAT QUESTIONS DO
YOU HAVE?



Reading for tonight:

Vue Router

