AngularJS Coding Standards



Following are the guideline which we have to take in our code:

- Code MUST have a semicolon at the end of statement.
- Code MUST not have unused/unnecessary variables.
- Code MUST not have trailing whitespace.
- Line length MUST be limited to 80 characters.
- Use single quotes, unless you are writing JSON.

For example

Right:

```
var foo = 'bar';
```

Wrong:

```
var foo = "bar";
```

• Control statements MUST have braces on the same line.

For example

Right:

```
if (true) {
   console.log('winning');
}
```

Wrong:

```
if (true)
{
     console.log('winning');
   }
```

• Declare one variable per var statement, it makes it easier to reorder the lines.

For example

Right:

```
var keys = ['foo', 'bar'];
var values = [23, 42];
var obj = {};
```



Wrong:

```
var keys = ['foo','bar'];
    values = [23,42];
    object = {};
    key;
```

 Variables and properties should use lower camel case capitalization. They should also be descriptive. Single character variables and uncommon abbreviations should generally be avoided.

For Example

Right:

```
var adminUser = 'admin';
```

Wrong:

```
var admin_user = 'admin';
```

 Constants should be declared as regular variables or static class properties, using all uppercase letters.

For Example

Right:

```
var SECOND = 1 * 1000;
```

Wrong:

```
const SECOND = 1 * 1000;
```

• Use trailing commas and put short declarations on a single line. Only quote keys when your interpreter complains:

For Example

Right:



Wrong:

• Use triple equality operator in conditions.

For Example

Right:

```
var a = 0;
if (a !== '') {
    console.log('winning');
}
```

Wrong:

```
var a = 0;
if (a != '') {
    console.log('winning');
}
```

• If a condition is very lengthy then assign it to a variable or function.

For Example

Right:

```
var isValidPassword = password.length >= 4 &&
/^(?=.*\d).{4,}$/.test(password);
if (isValidPassword) {
    console.log('winning');
}
```

Wrong:

```
if (password.length >= 4 && /^(?=.*\d).{4,}$/.test(password)) {
    console.log('losing');
}
```

• Function length should be small. Always return function value as early as possible.



For Example

Right:

```
function isPercentage(val) {
  if (val < 0) {
    return false;
  }
  if (val > 100) {
    return false;
  }
  return true;
}
```

Wrong:

```
function isPercentage(val) {
   if (val >= 0) {
      if (val < 100) {
       return true;
      } else {
      return false;
      }
   } else {
      return false;
   }
}</pre>
```

Angular 1.X

- Directory structure must be by feature.
- Use suffix for filename for controller, services, directive etc. Ex.
 - home.controller.js
 - header.directive.js
 - User.service.js
- Must use dependency and injection both in controllers, services, directives, modules etc.
- There must not be any html in your controller.
- Never access DOM element with jquery. Always use angular.element().
- All API calls must be written in services.
- Do not use watch as much as possible.



Angular 2+

- Always install packages via package manager with save attribute.
- Use angular animations only for any kind of animation.
- Use const bindings when declaring references.
- Prefer small functions as a primary means of abstraction.
 - Simplifies understanding program operations and execution along with programmer intent.
 - Maximizes reuse of code through granularity of abstractions.

```
const newMember = new User();
newMember.setName(fullName);
newMember.setEmail(email);
const newTeam = TeamsManager.get(team);
newTeam.invite(newMember);
function invite(team, { fullName, email }) {
  const names = fullName.split(' ');
 const newMember = {
   no: team.length
   firstName: names[0],
   lastName: names[1],
   joinedOn: new Date(),
 };
  const newTeam = team.concat([newMember]);
 return newTeam;
function createUser(fullName, email) {
  const names = fullName.split(' ');
  return {
    firstName: names[0],
   lastName: names[1],
    joinedOn: new Date(),
 };
function addToTeam(team, candidate) {
```



• Use upper CamelCase for classes.

```
// avoid
class button {}

// good
class Button {}
```

