PBOMSES BY BRIAN SCHILLER

DEFINITION

```
function emptyPromise() {
  let callbacks;
  const p = new Promise((resolve, reject) => {
    callbacks = { resolve, reject };
  });
  p.resolve = (val) => callbacks.resolve(val);
  p.reject = (val) => callbacks.reject(val);
  return p;
```

WITHOUT emptyPromise

```
function fileContents(path) {
  return new Promise((resolve, reject) => {
    fs.readFile(path, (e, data) => {
      if (e) reject(e);
      else resolve(data);
    });
  });
```

WITH emptyPromise

```
function fileContents(path) {
  const p = emptyPromise();
  fs.readFile(path, (e, data) => {
    if (e) p.reject(e);
    else p.resolve(data);
  });
  return p;
```

WHEN MIGHT YOU USE IT?

WHEN YOU NEED TO RESOLVE/REJECT A PROMISE OUTSIDE THE SCOPE WHERE THE PROMISE IS CREATED

EXAMPLES

- > CONVERTING CALLBACK-BASED CODE
- > WAITING FOR isLoggedIn TO SETTLE
- > REQUEST CONSOLIDATION

WAIT FOR isLoggedIn TO SETTLE

(LIVECODING)

WAITING ON ACTIONS

```
hagridActions: ['fetchProjects'],
async mounted() {
  await this.hagridPromise('fetchProjects');
  // at this point, you can be confident that projects have been fetched.
  const toSelect = this.$route.query.projectId || this.projects[0].id;
  this.selectProject(this.projects.find(p => p.id === toSelect));
},
```

WAITING ON ACTIONS

```
hagridActions: ['fetchProjects'],
async mounted() {
  await this.hagridPromise('fetchProjects');
  // at this point, you can be confident that projects have been fetched.
  const toSelect = this.$route.query.projectId || this.projects[0].id;
  this.selectProject(this.projects.find(p => p.id === toSelect));
},
```

WHAT IF SOMEONE REQUESTS

hagridPromise('notYetDispatched')?

```
getPromise(actionName) {
setPromise(actionName, p) {
```

```
getPromise(actionName) {
 if (this.promises[actionName]) return this.promises[actionName];
setPromise(actionName, p) {
```

```
getPromise(actionName) {
 if (this.promises[actionName]) return this.promises[actionName];
 if (this.unknownPromises[actionName]) {
   return this.unknownPromises[actionName];
setPromise(actionName, p) {
```

```
getPromise(actionName) {
 if (this.promises[actionName]) return this.promises[actionName];
 if (this.unknownPromises[actionName]) {
    return this.unknownPromises[actionName];
  this.unknownPromises[actionName] = emptyPromise();
setPromise(actionName, p) {
```

```
getPromise(actionName) {
 if (this.promises[actionName]) return this.promises[actionName];
  if (this.unknownPromises[actionName]) {
    return this.unknownPromises[actionName];
  this.unknownPromises[actionName] = emptyPromise();
  return this.unknownPromises[actionName];
setPromise(actionName, p) {
```

```
getPromise(actionName) {
 if (this.promises[actionName]) return this.promises[actionName];
  if (this.unknownPromises[actionName]) {
    return this.unknownPromises[actionName];
  this.unknownPromises[actionName] = emptyPromise();
  return this.unknownPromises[actionName];
setPromise(actionName, p) {
  if (this.unknownPromises[actionName]) {
    this.unknownPromises[actionName].resolve(p);
   delete this.unknownPromises[actionName];
```

```
getPromise(actionName) {
 if (this.promises[actionName]) return this.promises[actionName];
  if (this.unknownPromises[actionName]) {
    return this.unknownPromises[actionName];
  this.unknownPromises[actionName] = emptyPromise();
  return this.unknownPromises[actionName];
setPromise(actionName, p) {
  if (this.unknownPromises[actionName]) {
    this.unknownPromises[actionName].resolve(p);
   delete this.unknownPromises[actionName];
  this.promises[actionName] = p;
```

THANK YOU!

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TWITTER. GITHUB. DENVER DEVS: @bgschiller

- > SLIDES: github.com/bgschiller/empty-promises-talk
- > github.com/binded/empty-promise
- > github.com/bgschiller/vue-hagrid