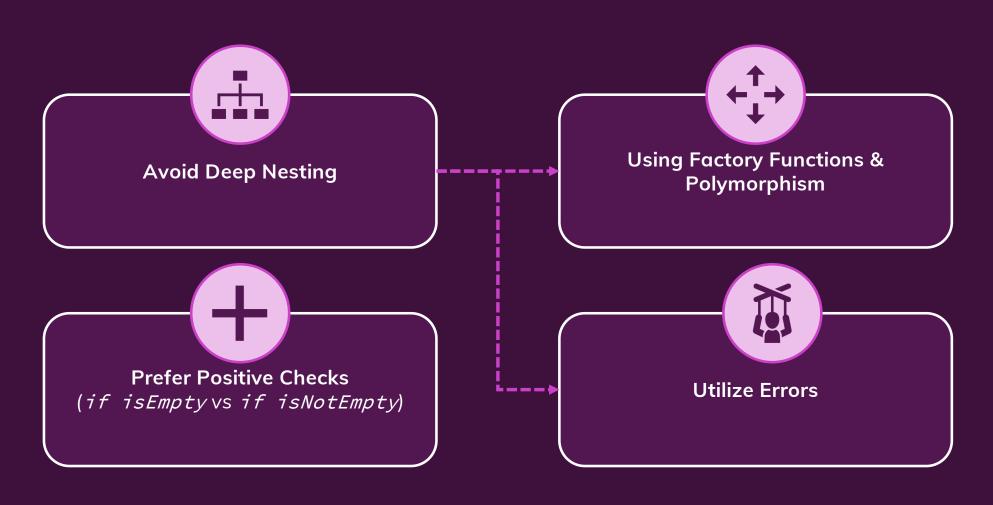


## **Keep Your Control Structures Clean**





## **Use Guards & Fail Fast**

```
if (!email.includes('@'))
                                           return;
                                                                           Guard
if (email.includes('@')) {
                                                        Fail fast
  // do stuff
                                                        runs before main code runs
                                         // do stuff
                                         if (!user.hasPurchases())
                                                                           Guard
if (user.active) {
                                                           Fail fast
                                             return;
  if (user.hasPurchases()) {
    // do stuff
                                         if (user.active) {
                                           // do stuff
```

## **Embrace Errors & Error Handling**

Throwing + handling errors can replace if statements and lead to more focused functions

Simple rule: If something is an error → Make it an error

```
if (!isEmail) {
  return {code: 422, message: 'Invalid input'};
}
```

```
if (!isEmail) {
  const error = new Error('Invalid input');
  error.code = 422;
  throw error;
}
```



## Error Handling is "One Thing"!