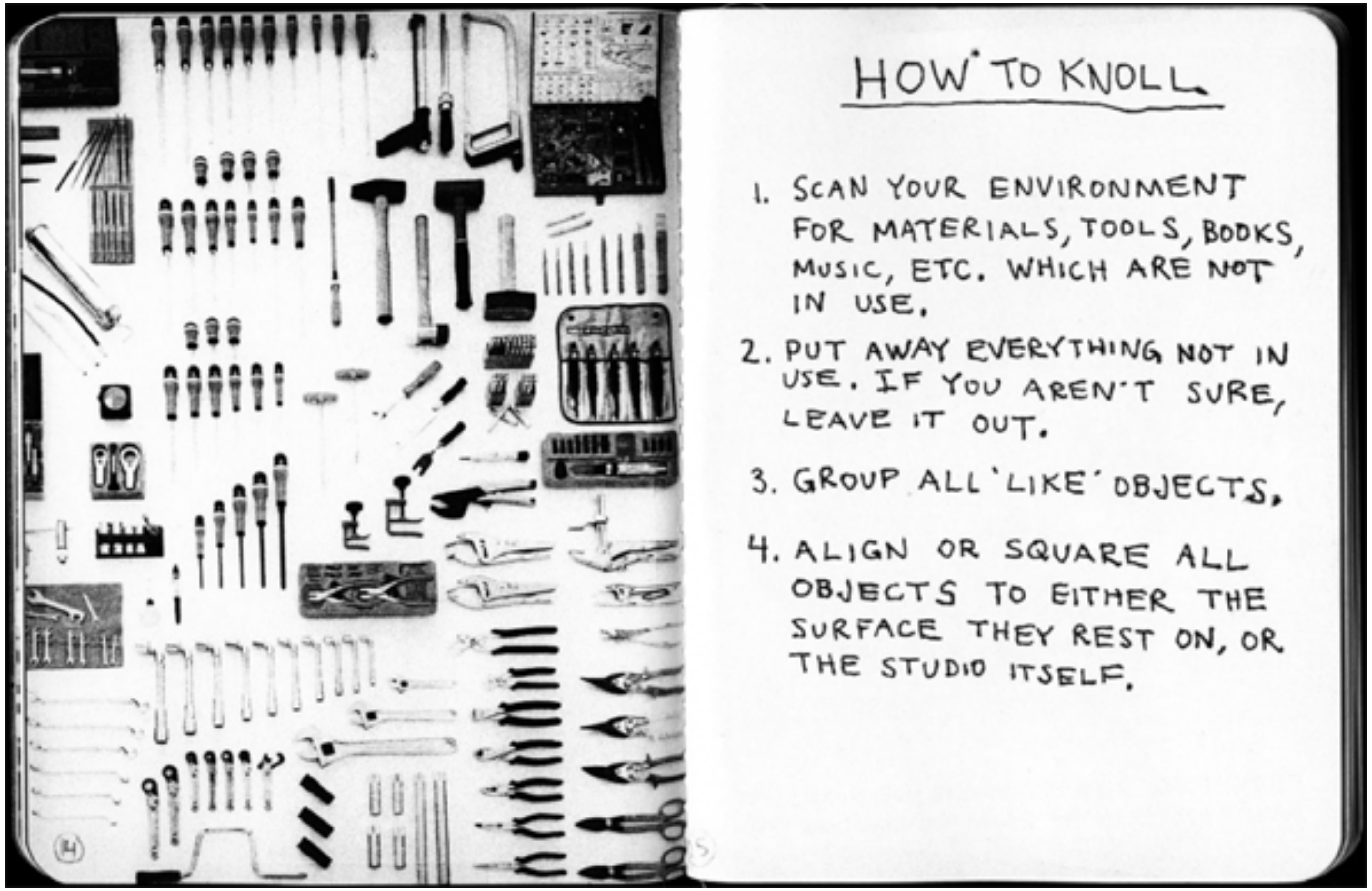
Objectives

- Explain what linting is.
- Explain why linting your JavaScript is useful.
- Use ESLint to lint your own JavaScript code.

ALWAYS BE KNOLLING



HOW TO KNOLL

1. SCAN YOUR ENVIRONMENT FOR MATERIALS, TOOLS, BOOKS, MUSIC, ETC. WHICH ARE NOT IN USE.
2. PUT AWAY EVERYTHING NOT IN USE. IF YOU AREN'T SURE, LEAVE IT OUT.
3. GROUP ALL 'LIKE' OBJECTS.
4. ALIGN OR SQUARE ALL OBJECTS TO EITHER THE SURFACE THEY REST ON, OR THE STUDIO ITSELF.

Linting is the process of running a program that analyzes code for potential errors. The word "linting" comes the lint Unix utility which flags suspicious and non-portable constructs in C language code. Linting code is useful because suspicious and non-portable constructs are likely to produce bugs.

- A linter is any tool that flags suspicious usage of coding constructs and syntactic style.
- Linters are used to find syntax errors and to highlight code that doesn't adhere to certain style guidelines.

WHO BENEFITS FROM A LINTER FOR JAVASCRIPT?

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1. The person writing the code.
2. The system that executes the code.
3. The team that maintains or works on the code in the future.

THE PROCESS:

1. Initialize node for your project npm init -y
2. Install linter module (for node or atom)
3. Create a .eslintrc.js configuration file.
4. Add language configuration and environmnent configuration to the .eslintrc.js file.
5. Run eslint locally and see lots of errors
6. Curse, then fix errors

Example .eslintrc.js

```
module.exports = {
  extends: [
     'airbnb'
  ],
  rules: [
    "semi": "off",
    "no-plusplus": "off
  ]
};
```

SETUP IN TERMINAL

```
npm install -g eslint eslint-config-airbnb

(
  export PKG=eslint-config-airbnb;
  npm info "$PKG@latest" peerDependencies --json | command sed 's/[\{\},]//g ; s/: /@/g' | xargs npm install -g "$PKG@latest"
)
```

```
touch ~/.eslintrc.js
```

```
atom ~/.eslintrc.js
```

add the configuration to ~/.eslintrc.js

```
npm get prefix
```

IN ATOM SETTINGS:

Install & Enable Packages:
- linter
- linter-ui-default
- linter-eslint
- make sure jslint is disabled or not installed

In Linter Settings:

- Check 'Lint on Change' if you want to lint as you go. Lint on save is a less annoying.

In linter-eslint Settings:

- Uncheck "Disable when no ESLint config is found"
- Add ~/.eslintrc.js to ".eslintrc Path"
- Add result from npm get prefix to "Global Node Installation Path" e.g. '/usr/local'
- Check "Show Rule ID in Messages:
- Check Use global ESLint Installation

Exercise:

* Install and configure the linter
* Then lint the code your wrote for your warm up.

My preferred eslintrc.js

```
module.exports = {
 "extends": [
    'ryansobol/browser',
    'ryansobol/es6',
    'ryansobol/jquery'
  ],
  rules: {
    "semi": "off",
    "prefer-const": "off",
    "no-implicit-globals": "off",
    "strict": "off",
    "quotes": "off",
    "no-unused-vars": "off",
    "no-else-return": "off",
    "no-multiple-empty-lines": "off"
  }
};
```

RESOURCES

Comparison of Linting Tools