Building a Real World Extension



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Real World Extension



What's the Problem?

Create the Project

Define Our Functions

Insert File or Image Links

Write Unit Tests

Interactively Build and Insert Figure Tag



What's the Problem?





Build a Better Blog with a Static Site Generator

by Jeff Ammons

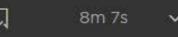
Make your blog load faster than your reader can blink with a static website generator without resorting to hand written HTML.

▶ Resume Course

Table of contents Description Exercise files Discussion Learning Check Recommended

Expand all





What Are

What Are the Top 10 Static Site Generators?

4m 35s

Course author



Jeff Ammons

Jeff has been passionate about and active in software for over 20 years. He currently works for Sage Software as a Principal Architect and runs the Gwinnett Georgia, Microsoft User Group (GGMUG.com...

Course info

Level Intermediate

Rating ***** (57)

My rating *****

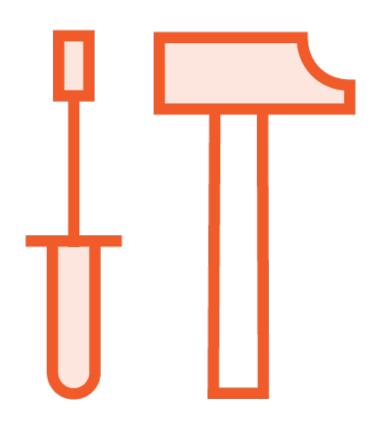
Duration 2h 16m

Released 25 Nov 2015

Bookmarked

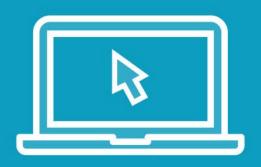


Why Not Use A Snippet?



Create the Project

Demo



Create the Project



Define Our Functions

Demo



Define Our Functions

Functions

Insert Image or File Link

Functions

Insert Image or File Link
Insert Figure Tag

JavaScript Strict Mode

https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Strict_mode

Tracer Bullet

Working code of limited functionality that goes through all layers of an application.

Popularized by *The Pragmatic Programmer*



Insert File or Image Links

Demo



Insert File or Image Links

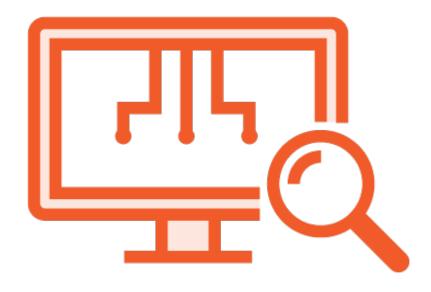


```
let fileLinkDisposable = vscode.commands.registerCommand
('extension.insertLink', () => {
    vscode.window.showInformationMessage('Insert File Link
    Initiated.');
    insertText("Insert File Link");
});
```

Leading Zeros

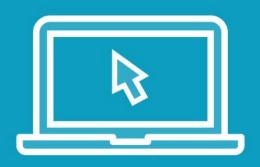
Leading Zeros

```
(0)' + 1 = (01)' (01)'
(0)' + 10 = (010)' (10)'
```

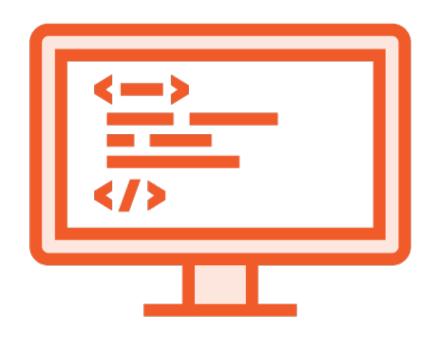


Write Unit Tests

Demo



Write Unit Tests



Interactively Build and Insert Figure Tag

Demo



Interactively Build and Insert Figure Tag

Blog

CUSTOMIZATION

LANGUAGES

RUNTIMES

EXTENSIONS

Overview

Example-Hello World

Example-Word Count

Example-Language Server

Example-Debuggers

Principles and Patterns

Extensibility Principles and Patterns

The extension API of Visual Studio Code follows some guiding patterns and principles which are applied throughout the whole API.

Promises

The VS Code API represents asynchronous operations with promises. From extensions any type of promise can be returned, like ES6, WinJS, A+, etc.

Being independent of a specific promise library is expressed in the API by the Thenable -type.

In most cases the use of promises is optional and when VS Code calls into an extension, it can handle the result type as well as a Thenable of the result type. When the use of a promise is optional, the API indicates this by returning or -types.

```
provideNumber(): number | Thenable<number>
```

🖍 Edit

Promises

Q

Cancellation Tokens

IN THIS ARTICLE

Disposables

Events

Using Node.js Modules with Extensions

Next Steps

Common Questions



https://code.visualstudio.com/docs/extensions/patterns-and-principles

ES6 Promise

```
vscode.window.showInputBox({prompt: "Image File Name"})
   .then(value => {
    }
    .catch(error => {
    });
```

ES6 Promise

Promises > Nested Callbacks

Sure Do Hope I Have Enough });s

```
asyncMethod01(function() {
  asyncMethod02(function() {
    asyncMethod03(function(){
      asyncMethod04(function(){
        asyncMethod05(function(){
          asyncMethod06(function(){
            console.log("Hello, World!");
          });
        });
      });
    });
  });
```

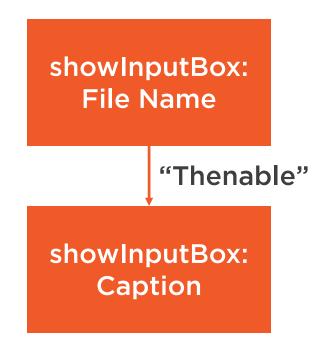
And Then I Said...

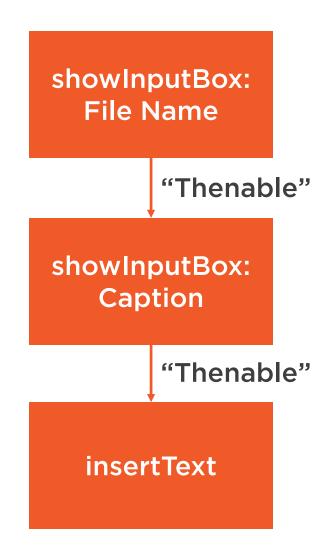
```
1 asyncMethod01()
2 .then(asyncMethod02)
3 .then(asyncMethod03)
4 .then(asyncMethod04)
5 .then(asyncMethod05)
6 .then(asyncMethod06)
7 .catch(function(err){
8    console.log(err);
9 });
```

Fist bump for you, Captain Awesome!

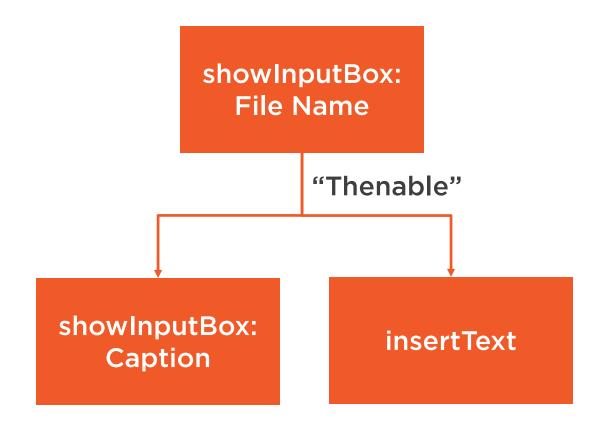


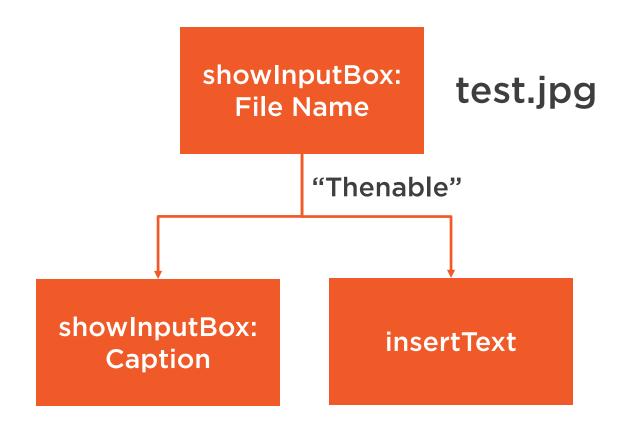
showInputBox: File Name

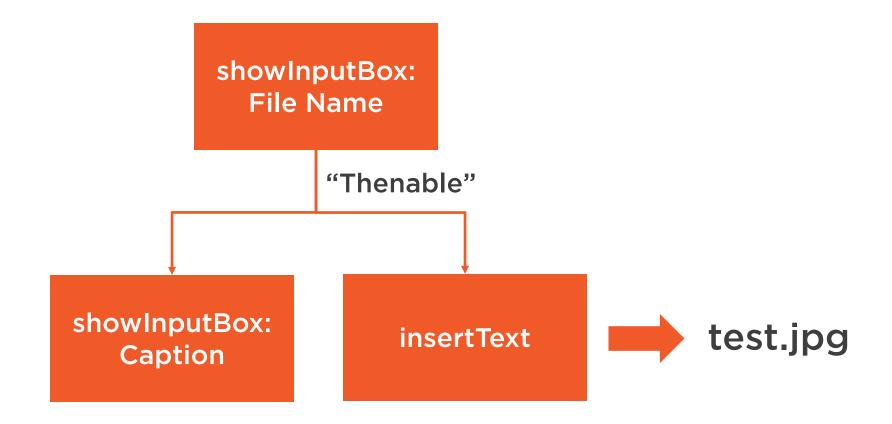


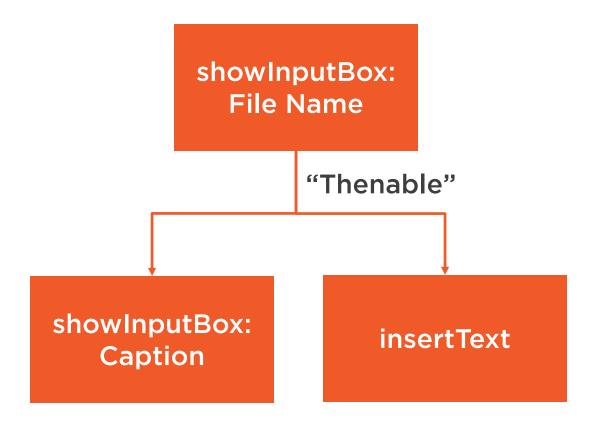


showInputBox: File Name

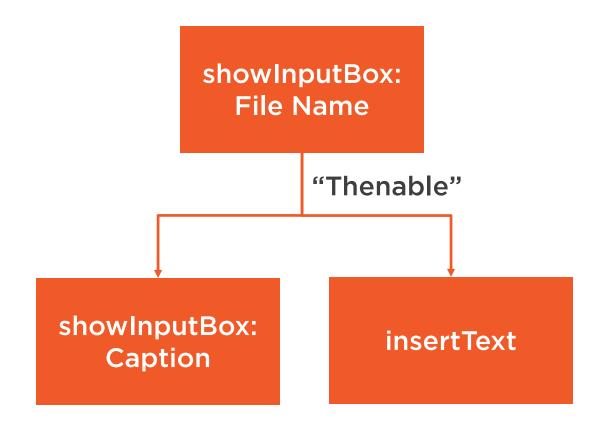








Test Caption

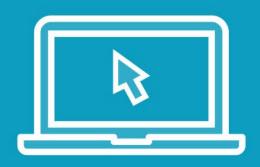








Demo



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Up Next:

Distributing Our Extension