



Flutter Start

App Developer Should Know Before Starting

1. Before Coding
2. Development Walkthrough
3. Tools Introduction

Flutter Village
for Developer Student
Club



```
Flutter 3.19.0  
VS Code 1.86.2  
macOS 14.0 23A344 darwin-arm64
```

Who am I?

Aki Yu



FB: nobodyyyu



Line: Flutter Start



FB: iOS @ Taipei

iOS Developer

Android Developer

Flutter Developer

Project Management Professional

Certificated Scrum Developer

Certificated Scrum Master

Certificated Scrum Product Owner

Before Coding



Terminal

.zshrc / .bashrc

```
alias fpg='flutter pub get'
alias fd='flutter doctor'
alias fds='flutter devices'
alias fc='flutter clean'
alias fpcr='flutter pub cache repair'
alias fpa='flutter pub add'
alias fpo='flutter pub outdated'
alias pi='pod install'
alias pc='pod clean'
```



VSCode

Configure User Snippets

```
"Print to console": {
  "prefix": "singleton-aki",
  "body": [
    "class $1 {",
    "static final $1 shared = $1._internal();",
    "",
    "factory $1() {",
    "  return shared;",
    "}",
    "$1._internal();",
    "",
    "}",
  ],
  "description": "make singleton class"
},
```

Copilot



Know More About **Variables**

Local / Public / Static

Common.dart

Static Variables

a.dart

Global

{

Local

}

Singleton

```
class SingletonClass {  
    static final SingletonClass shared = SingletonClass._internal();  
  
    factory SingletonClass() {  
        return shared;  
    }  
    SingletonClass._internal();  
}
```

Late

Nullable

Final

Const

Know More About **Function**

Parameters

Parameters / Arguments

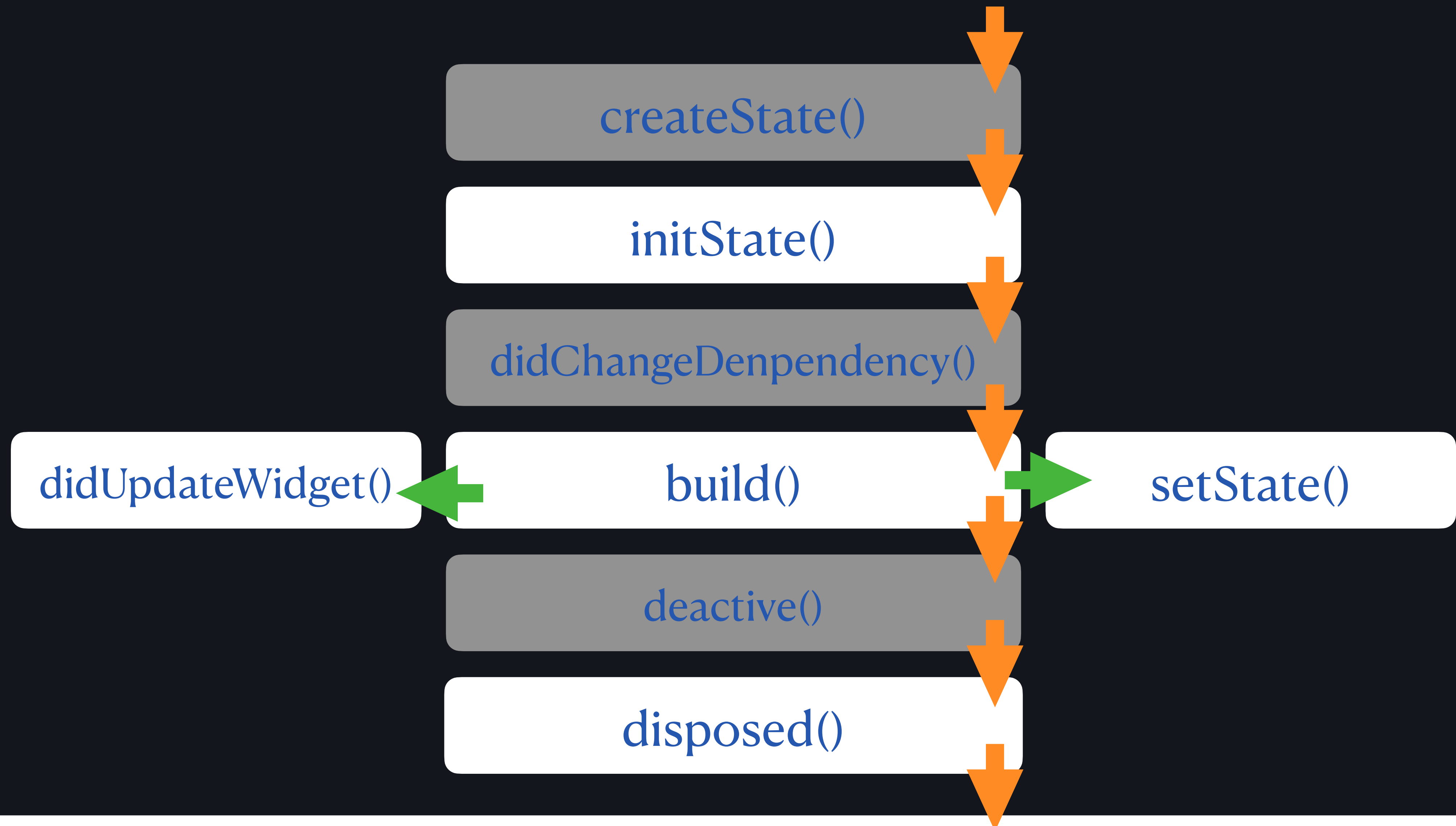
Optional Parameters

Named Parameters

Required Parameters

Optional Positional Parameters

Know More About **Stateful Widget LifeCycle**



Start Coding

Keep Things Simple

```
text("123")
```

```
tap(text("123"),({}))
```

Eliminate Repetition/Duplication

Make Your Code Readable

Verbs / Noun

Readability and Code Aesthetics

Ubiquitous Language

Organized Your Code

Folder

Import / Export

```
export 'package:{package_name}/enum/http_method.dart';  
export 'package:{package_name}/service/http/domain.dart';  
export 'package:{package_name}/service/http/request.dart';  
export 'package:{package_name}/env/env.dart';
```

Extensions

Test Your Code

Unit Test

Api Test

Advance / Other Test

Appendix

<https://flutter.dev/>

<https://pub.dev/>

<https://flutterawesome.com/>

The First Flutter App



```
flutter create helloworld
```

```
cd helloworld
```

```
Flutter run
```

Flutter Installation

<https://docs.flutter.dev/get-started/install>

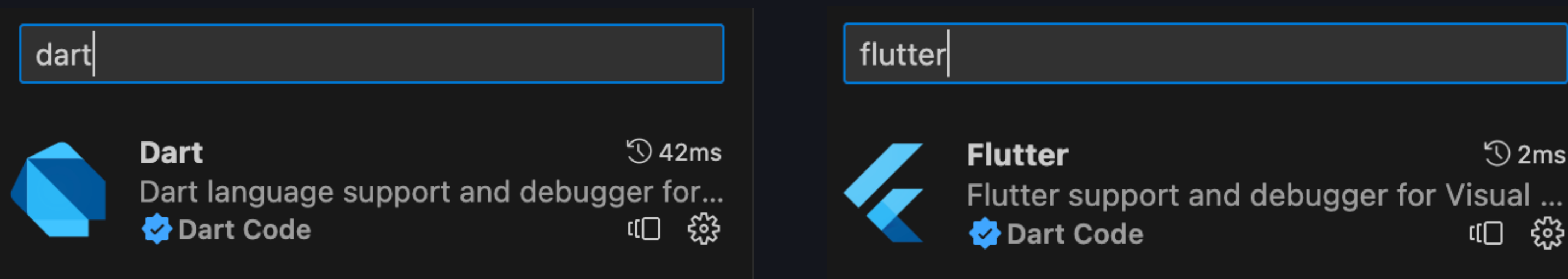
IDE Installation

Android Studio <https://developer.android.com/studio/install?hl=zh-tw>

Xcode <https://apps.apple.com/us/app/xcode/id497799835>

VSCode <https://code.visualstudio.com/>

VSCode Plugin



Flutter Environment Health Check

1. Windows Environment Variable



Mac Environment



`nano $HOME/.bashrc` or `nano $HOME/.zshrc`

```
export ANDROID_SDK_ROOT=~/.Library/Android/sdk
export ANDROID_HOME=~/.Library/Android/sdk
export PATH=$PATH:$ANDROID_HOME/platform-tools
export PATH=$PATH:~/.Library/Android/sdk/emulator

export PATH="$PATH:$HOME/flutter/bin"
export PATH="$PATH:$HOME/.pub-cache/bin"
```

2. flutter doctor



Open simulator



```
open -a Simulator
```



```
emulator -list-avds
```

```
emulator -avds {name}
```

Open project in VSCode



```
code .
```

Question?