

# Windows 配置

## 一、目录

## 二、Maven

### 1、下载

- 官网：

[Maven – Download Apache Maven](#)

	Link	Checksums	Signature
Binary tar.gz archive	<a href="#">apache-maven-3.8.5-bin.tar.gz</a>	<a href="#">apache-maven-3.8.5-bin.tar.gz.sha512</a>	<a href="#">apache-maven-3.8.5-bin.tar.gz.asc</a>
Binary zip archive	<a href="#">apache-maven-3.8.5-bin.zip</a>	<a href="#">apache-maven-3.8.5-bin.zip.sha512</a>	<a href="#">apache-maven-3.8.5-bin.zip.asc</a>
Source tar.gz archive	<a href="#">apache-maven-3.8.5-src.tar.gz</a>	<a href="#">apache-maven-3.8.5-src.tar.gz.sha512</a>	<a href="#">apache-maven-3.8.5-src.tar.gz.asc</a>
Source zip archive	<a href="#">apache-maven-3.8.5-src.zip</a>	<a href="#">apache-maven-3.8.5-src.zip.sha512</a>	<a href="#">apache-maven-3.8.5-src.zip.asc</a>

• [Release Notes](#)

- 百度网盘：

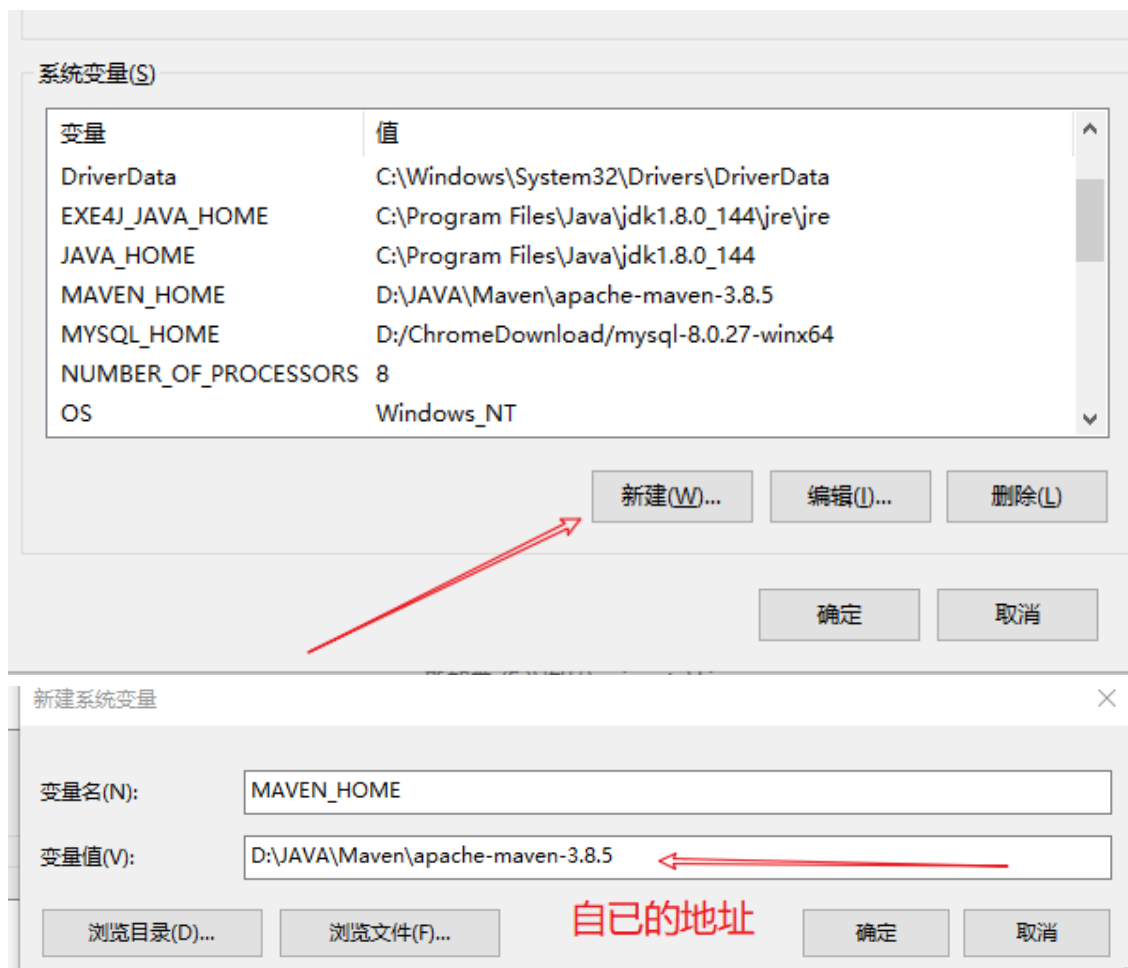
链接：<https://pan.baidu.com/s/15glzTScDSDWOfmFVZKrg>

提取码：ed6n

--来自百度网盘超级会员V1的分享

### 2、配置环境

1. 打开编辑环境变量（控制面板搜索环境变量）
2. 系统变量新建



MAVEN\_HOME

### 3. path变量

变量	值
OS	Windows_NT
Path	D:\IDE\VMware Pro\bin\;C:\WINDOWS\system32;C:\WINDO...
PATHEXT	.COM;.EXE;.BAT;.CMD;.VBS;.VBE;.JS;.JSE;.WSF;.WSH;.MSC
PROCESSOR_ARCHITECT...	AMD64
PROCESSOR_IDENTIFIER	AMD64 Family 23 Model 24 Stepping 1, AuthenticAMD
PROCESSOR_LEVEL	23
PROCESSOR_REVISION	1801

点击编辑（/双击），点击增加

写入

%MAVEN\_HOME%\bin

### 4. 环境变量成功，检查

管理员身份运行cmd，输入 **mvn -v**

```
C:\Users\MateBook13>mvn -v
Apache Maven 3.8.5 (3599d3414f046de2324203b78ddcf9b5e4388aa0)
Maven home: D:\JAVA\Maven\apache-maven-3.8.5
Java version: 1.8.0_144, vendor: Oracle Corporation, runtime: C:\Program Files\Java\jdk1.8.0_144\jre
Default locale: zh_CN, platform encoding: GBK
OS name: "windows 10", version: "10.0", arch: "amd64", family: "windows"

C:\Users\MateBook13>
```

出现以上内容，创建成功

## 3、修改配置文件

### 1. 打开maven解压目录下的conf中的settings.xml（记事本或者编辑器打开）

```
<!-- mirror
| Specifies a repository mirror site to use instead of a given repository. The repository that
| this mirror serves has an ID that matches the mirrorOf element of this mirror. IDs are used
| for inheritance and direct lookup purposes, and must be unique across the set of mirrors.
|
-->
<mirror>
  <id>mirrorId</id>
  <mirrorOf>repositoryId</mirrorOf>
  <name>Human Readable Name for this Mirror.</name>
  <url>http://my.repository.com/repo/path</url>
</mirror>
-->
<!-- 阿里云仓库 -->
<mirror>
  <id>nexus-aliyun</id>
  <mirrorOf>*</mirrorOf>
  <name>Nexus aliyun</name>
  <url>http://maven.aliyun.com/nexus/content/groups/public</url>
</mirror>
</mirrors>
```

找到

配置阿里云镜像仓库，国外仓库下载速度慢，体验不好。

```
<!--阿里云仓库-->
<mirror>
  <id>nexus-aliyun</id>
  <mirrorOf>*</mirrorOf>
  <name>Nexus aliyun</name>
  <url>http://maven.aliyun.com/nexus/content/groups/public</url>
</mirror>
```

!!!! 注意格式和位置不要写进注释里。

## 2. 配置本地仓库的地址（所有的包都下载在这里）

maven默认地址为C盘的 用户目录下/.m2/repository

建议修改，保护C盘

```
| Default: ${user.home}/.m2/repository
<localRepository>/path/to/local/repo</localRepository>
-->
<localRepository>D:\JAVA\Maven\.m2\repository</localRepository>
```

再次打开settings.xml文件

```
| The sections in this sample file are intended to give you a running start at
| getting the most out of your Maven installation. Where appropriate, the default
| values (values used when the setting is not specified) are provided.
|
|-->
<settings xmlns="http://maven.apache.org/SETTINGS/1.2.0"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="http://maven.apache.org/SETTINGS/1.2.0 https://maven.apache.org
  <!-- localRepository
  | The path to the local repository maven will use to store artifacts.
  |
  | Default: ${user.home}/.m2/repository
  <localRepository>/path/to/local/repo</localRepository>
  -->
  <localRepository>D:\JAVA\Maven\.m2\repository</localRepository>
```

找到如图所示的位置,写入下面的内容，注意（内容里的文件路径是你的本地仓库的路径，自行创建修改）

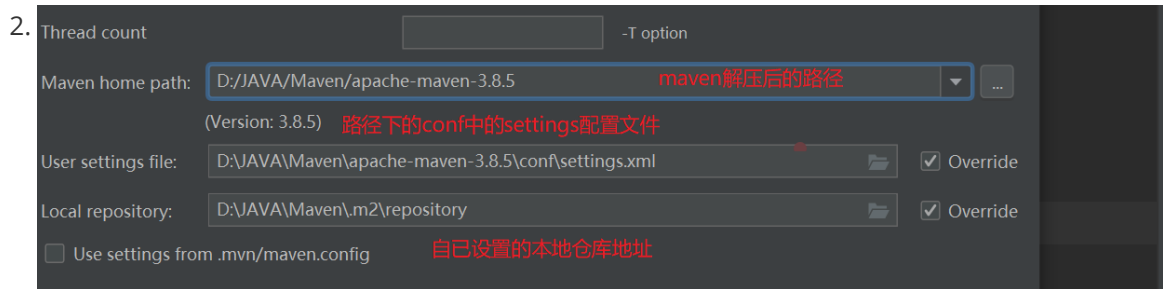
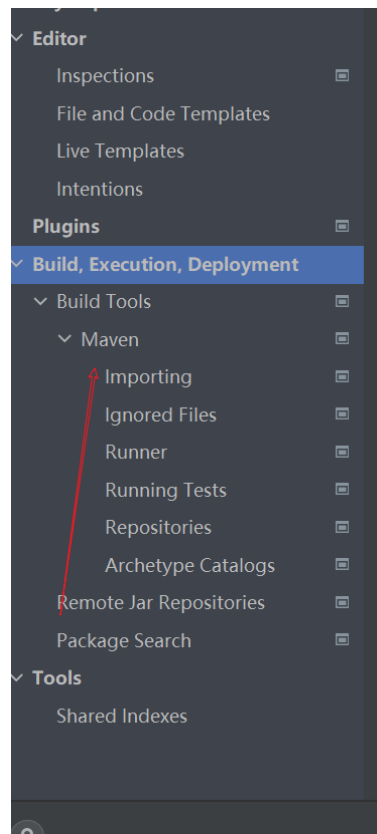
!!!! 注意格式和位置不要写进注释里。

```
<localRepository>D:\JAVA\Maven\.m2\repository</localRepository>
```

## 4. idea配置Maven信息

### 1. File->Settings->Build.....->Build Tools->Maven

(File->Settings->搜索Maven)



按照图片所示配置路径

三个路径都要修改为自己设置的路径

!!! 成功

### 三、Gradle

### 四、Node.js

官网：

<http://nodejs.cn/download/>

下载

长期支持版本: 16.15.0

16.15.0  
长期支持版本

  
Windows 安装包  
node-v16.15.0-x64.msi

  
macOS 安装包  
node-v16.15.0.pkg

  
源代码  
node-v16.15.0.tar.gz

Windows 安装包 (.msi)

Windows 二进制文件 (.zip)

macOS 安装包 (.pkg)

macOS 二进制文件 (.tar.gz)

Linux 二进制文件 (x64)

Linux 二进制文件 (ARM)

Docker 镜像

全部安装包

32 位	64 位
32 位	64 位
64 位 / ARM64	
64 位	ARM64
64 位	
ARMv7	ARMv8
官方镜像	
全部安装包	

检查

```
C:\Users\MateBook13>node -v
v16.13.2

C:\Users\MateBook13>npm version
{
  npm: '8.1.2',
  node: '16.13.2',
  v8: '9.4.146.24-node.14',
  uv: '1.42.0',
  zlib: '1.2.11',
  brotli: '1.0.9',
  ares: '1.18.1',
  modules: '93',
  nghttp2: '1.45.1',
  napi: '8',
  llhttp: '6.0.4',
  openssl: '1.1.1l+quic',
  cldr: '39.0',
  icu: '69.1',
  tz: '2021a',
  unicode: '13.0',
  ngtcp2: '0.1.0-DEV',
  nghttp3: '0.1.0-DEV'
}

C:\Users\MateBook13>npx -v
3.1.2
```

## 五、MinGW

### 1、下载

官网：

<https://sourceforge.net/projects/mingw-w64/files/>

- [MinGW-W64-install.exe](#)

## MinGW-W64 GCC-8.1.0

- **x86\_64-posix-sjlj**
- x86\_64-posix-seh
- x86\_64-win32-sjlj
- x86\_64-win32-seh
- i686-posix-sjlj
- i686-posix-dwarf
- i686-win32-sjlj
- i686-win32-dwarf

## 2、安装

解压

bin	2022/6/4 11:32	文件夹	
etc	2022/6/4 11:31	文件夹	
include	2022/6/4 11:31	文件夹	
lib	2022/6/4 11:31	文件夹	
libexec	2022/6/4 11:31	文件夹	
licenses	2022/6/4 11:31	文件夹	
opt	2022/6/4 11:31	文件夹	
share	2022/6/4 11:31	文件夹	
x86_64-w64-mingw32	2022/6/4 11:31	文件夹	
build-info.txt	2018/5/12 0:00	文本文档	52 KB

## 3、环境变量

C:\Program Files\MinGW\bin

系统变量-->path-->新建-->解压后的bin目录

## 4、验证

```
gcc --version
g++ --version
```

```
C:\Program Files\MinGW\bin>gcc -v
Using built-in specs.
COLLECT_GCC=gcc
COLLECT_LTO_WRAPPER=C:/Program Files/MinGW/bin/./libexec/gcc/x86_64-w64-mingw32/8.1.0/lto-wrapper.exe
Target: x86_64-w64-mingw32
Configured with: ../../src/gcc-8.1.0/configure --host=x86_64-w64-mingw32 --build=x86_64-w64-mingw32 --target=x86_64-w64-mingw32 --prefix=/mingw64 --with-sysroot=/c/mingw810/x86_64-810-posix-sjlj-rt_v6-rev0/mingw64 --enable-shared --enable-static --enable-targets=all --enable-multilib --enable-languages=c,c++,fortran,lto --enable-libstdcxx-time=yes --enable-threads=posix --enable-libgomp --enable-libatomic --enable-lto --enable-graphite --enable-checking=release --enable-fully-dynamic-string --enable-version-specific-runtime-libs --enable-sjlj-exceptions --disable-libstdcxx-pch --disable-libstdcxx-debug --enable-bootstrap --disable-rpath --disable-win32-registry --disable-nls --disable-werror --disable-symvers --with-gnu-as --with-gnu-ld --with-arch-32=i686 --with-arch-64=nocona --with-tune-32=generic --with-tune-64=core2 --with-libiconv --with-system-zlib --with-gmp=/c/mingw810/prerequisites/x86_64-w64-mingw32-static --with-mpfr=/c/mingw810/prerequisites/x86_64-w64-mingw32-static --with-mpc=/c/mingw810/prerequisites/x86_64-w64-mingw32-static --with-isl=/c/mingw810/prerequisites/x86_64-w64-mingw32-static --with-pkgversion='x86_64-posix-sjlj-rt_v6-rev0, Built by MinGW-W64 project' --with-bugurl=https://sourceforge.net/projects/mingw-w64 CFLAGS='-O2 -pipe -fno-ident -I/c/mingw810/x86_64-810-posix-sjlj-rt_v6-rev0/mingw64/opt/include -I/c/mingw810/prerequisites/x86_64-zlib-static/include -I/c/mingw810/prerequisites/x86_64-w64-mingw32-static/include' CXXFLAGS='-O2 -pipe -fno-ident -I/c/mingw810/x86_64-810-posix-sjlj-rt_v6-rev0/mingw64/opt/include -I/c/mingw810/prerequisites/x86_64-zlib-static/include -I/c/mingw810/prerequisites/x86_64-w64-mingw32-static/include' LDFLAGS='-pipe -fno-ident -L/c/mingw810/x86_64-810-posix-sjlj-rt_v6-rev0/mingw64/opt/lib -L/c/mingw810/prerequisites/x86_64-zlib-static/lib -L/c/mingw810/prerequisites/x86_64-w64-mingw32-static/lib'
Thread model: posix
gcc version 8.1.0 (x86_64-posix-sjlj-rt_v6-rev0, Built by MinGW-W64 project)
```

```
C:\Windows\system32>g++ --version
g++ (x86_64-posix-sjlj-rt_v6-rev0, Built by MinGW-W64 project) 8.1.0
Copyright (C) 2018 Free Software Foundation, Inc.
This is free software; see the source for copying conditions. There is NO
warranty; not even for MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.
```

## 六、rust安装

### 1、下载

官网: <https://www.rust-lang.org/zh-CN/tools/install>

### 2、安装

提示: 需要C/C++编译器 **MSVC** 或者 **MinGW**

#### 1、打开安装包

```
The Cargo home directory is located at:

C:\Users\MateBook13\.cargo

This can be modified with the CARGO_HOME environment variable.

The cargo, rustc, rustup and other commands will be added to
Cargo's bin directory, located at:

C:\Users\MateBook13\.cargo\bin

This path will then be added to your PATH environment variable by
modifying the HKEY_CURRENT_USER/Environment/PATH registry key.

You can uninstall at any time with rustup self uninstall and
these changes will be reverted.

Current installation options:

  default host triple: x86_64-pc-windows-msvc
  default toolchain: stable (default)
  profile: default
  modify PATH variable: yes

1) Proceed with installation (default)
2) Customize installation
3) Cancel installation
>1
```

默认安装

#### 2、检查

```
C:\Users\MateBook13\.cargo\bin>rustc --version
rustc 1.62.1 (e092d0b6b 2022-07-16)
```

```
C:\Users\MateBook13\.cargo\bin>
```



### 3、新建项目

#### 1、创建

创建

```
cargo new hello
```

目录结构

- hello
  - src
    - main.rs
  - Cargo.toml

#### 2、运行

运行

```
cargo run
```

```
E:\Data\Rust>cd hello
```

```
E:\Data\Rust\hello>cargo run
```

```
  Compiling hello v0.1.0 (E:\Data\Rust\hello)
```

```
  Finished dev [unoptimized + debuginfo] target(s) in 0.72s
```

```
  Running target\debug\hello.exe
```

```
Hello, world!
```

#### 3、添加依赖

在Cargo.toml中添加

```
[dependencies]
```

```
ferris-says = "0.1"
```

```
[package]
```

```
name = "hello"
```

```
version = "0.1.0"
```

```
edition = "2021"
```

```
# See more keys and their definitions at https://doc.rust-lang.org/cargo/reference/manifest.
```

```
[dependencies]
```

```
ferris-says = "0.1"
```

安装依赖

```
cargo build
```

测试

```
//main.rs

use ferris_says::say; // from the previous step
use std::io::{stdout, BufWriter};

fn main() {
    let stdout = stdout();
    let message = String::from("Hello fellow Rustaceans!");
    let width = message.chars().count();

    let mut writer = BufWriter::new(stdout.lock());
    say(message.as_bytes(), width, &mut writer).unwrap();
}
```

运行：cargo run

```
PS E:\Data\Rust\hello> cargo run
Finished dev [unoptimized + debuginfo] target(s) in 0.10s
Running target\debug\hello.exe

-----
| Hello fellow Rustaceans! |
-----

      \      ~~~~~
     \, /-  o o  -\, (/
        _
     /-  -----  -\

PS E:\Data\Rust\hello> █
```

### 3、命令

#### 1、更新

```
rustup update
```

#### 2、卸载

```
rustup self uninstall
```

#### 3、本地文档

```
rustup doc
```