

System Information on macOS

To get system information on your macOS, you can use several built-in tools and commands. Here are some methods to retrieve various types of system information:

1. System Information Utility

The System Information app provides a comprehensive overview of your Mac's hardware and software.

- Open **Spotlight Search** by pressing `Cmd + Space` and type "System Information," then press Enter.
- Alternatively, you can open it from the **Apple menu > About This Mac > System Report**.

2. About This Mac

This provides a quick overview of your Mac's specifications.

- Click the **Apple menu** in the top-left corner of the screen.
- Select **About This Mac**. This will show basic information like the macOS version, processor, memory, and serial number.

3. Terminal Commands

You can use the Terminal to get detailed system information using various commands.

- Open **Terminal** from `Applications > Utilities > Terminal` or by searching for it in Spotlight.

Basic System Information

```
system_profiler SPHardwareDataType
```

Detailed System Information

```
system_profiler
```

CPU Information

```
sysctl -n machdep.cpu.brand_string
```

Memory Information

```
sysctl hw.memsize
```

Disk Usage

```
df -h
```

Network Information

```
ifconfig
```

Battery Information (for laptops)

```
pmset -g batt
```

List of Installed Software

```
ls /Applications
```

macOS Version

```
sw_vers
```

User Information

```
id
```

List of Running Processes

```
ps aux
```

List of Installed Brew Packages

```
brew list
```

List of Installed Pip Packages

```
pip list
```

List of Installed Gem Packages

```
gem list
```

4. Activity Monitor

This app provides real-time information about your Mac's CPU, memory, energy, disk, and network usage.

- Open **Activity Monitor** from Applications > Utilities > Activity Monitor or by searching for it in Spotlight.

5. Disk Utility

This app provides information about your storage devices.

- Open **Disk Utility** from Applications > Utilities > Disk Utility or by searching for it in Spotlight.

6. Third-Party Tools

There are also third-party applications like **iStat Menus** and **CoconutBattery** that provide detailed system information and monitoring capabilities.

By using these methods, you can gather a wide range of system information on your macOS.