

# NETWORK DISCOVERY WITH SWIFT

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# DNS-SD and mDNS

# DNS-SD

DNS Service Discovery is a way of using standard DNS programming interfaces, servers, and packet formats to browse the network for services.

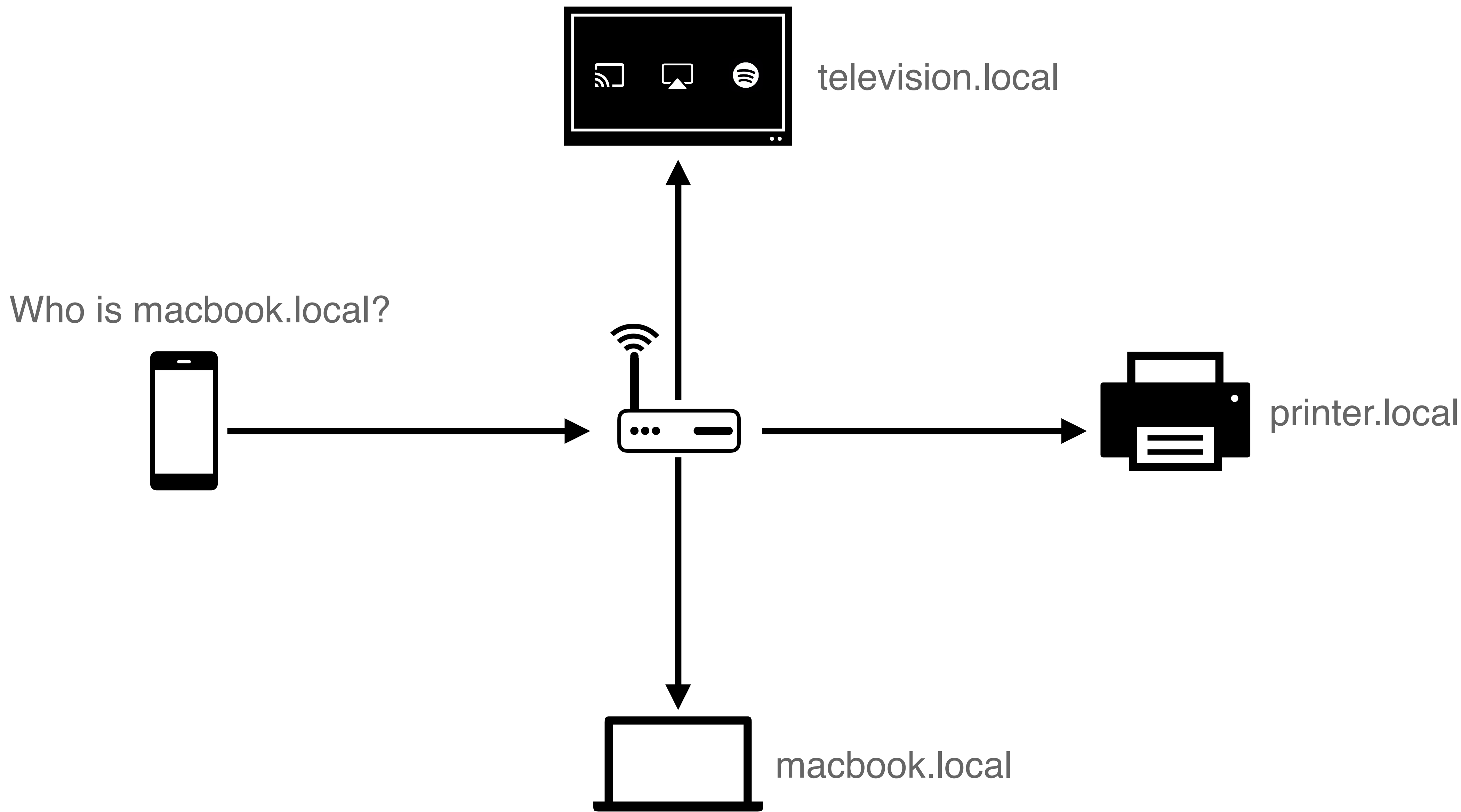
DNS Service Discovery is compatible with, but not dependent on, Multicast DNS.

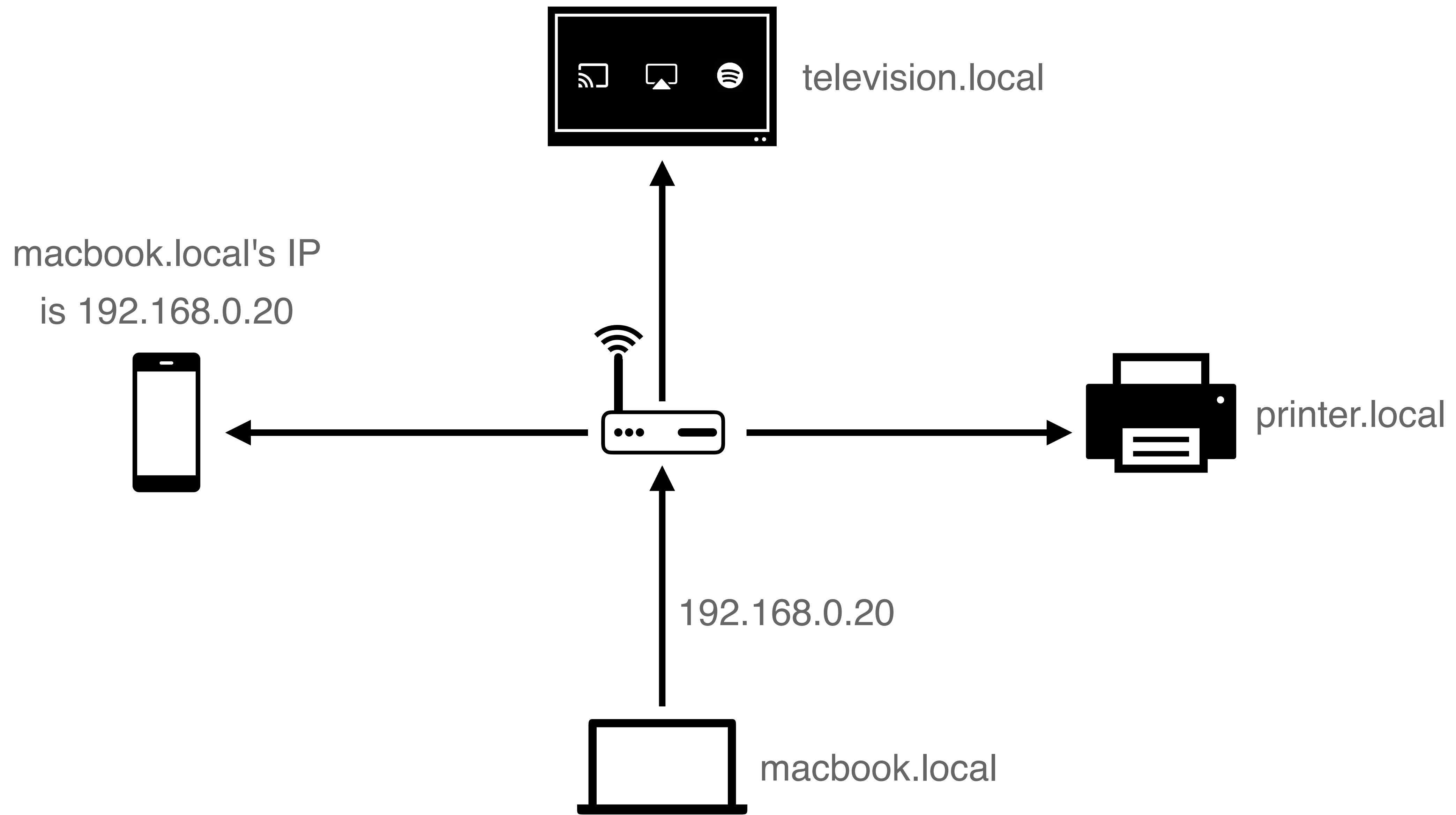
# DNS-SD

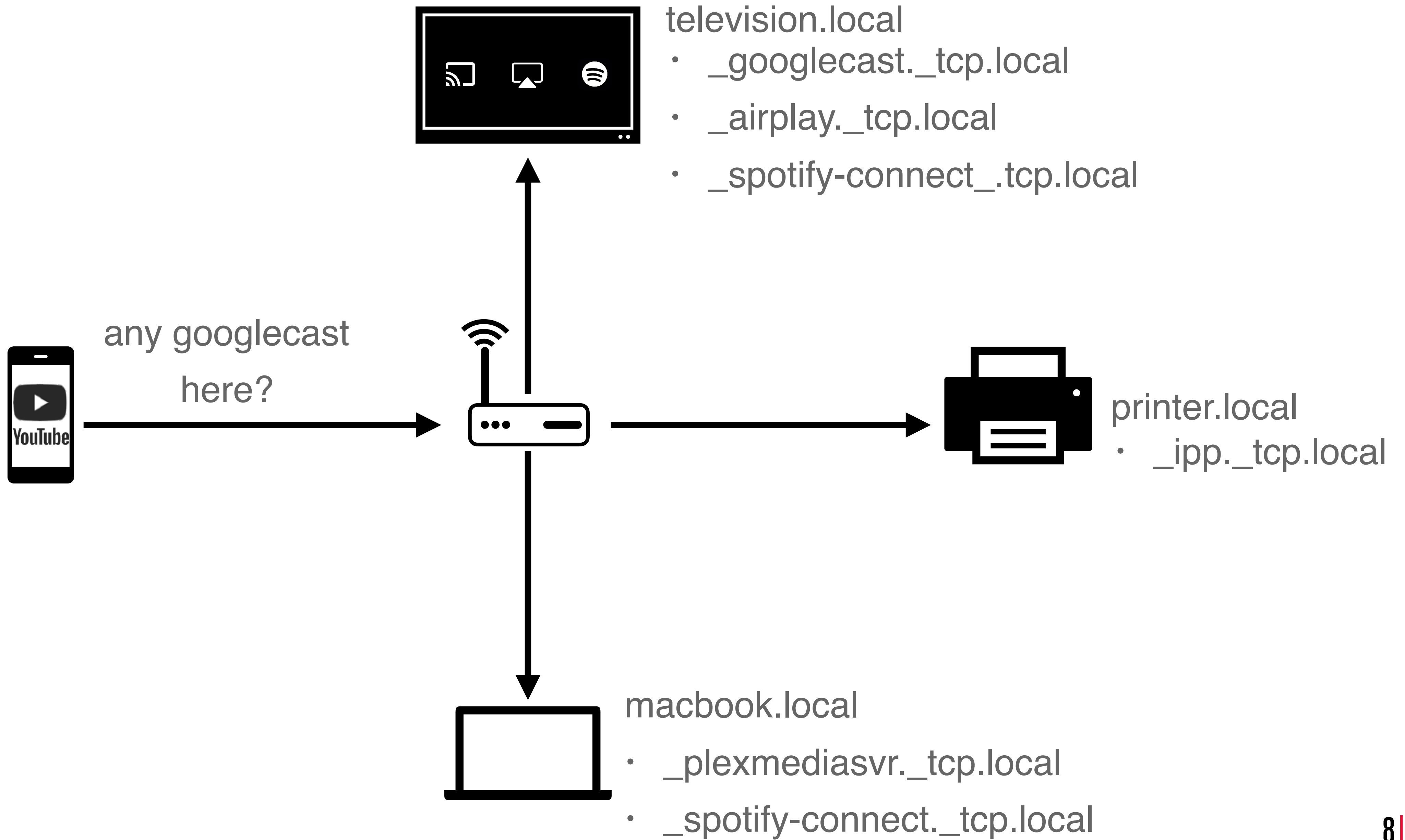


# mDNS

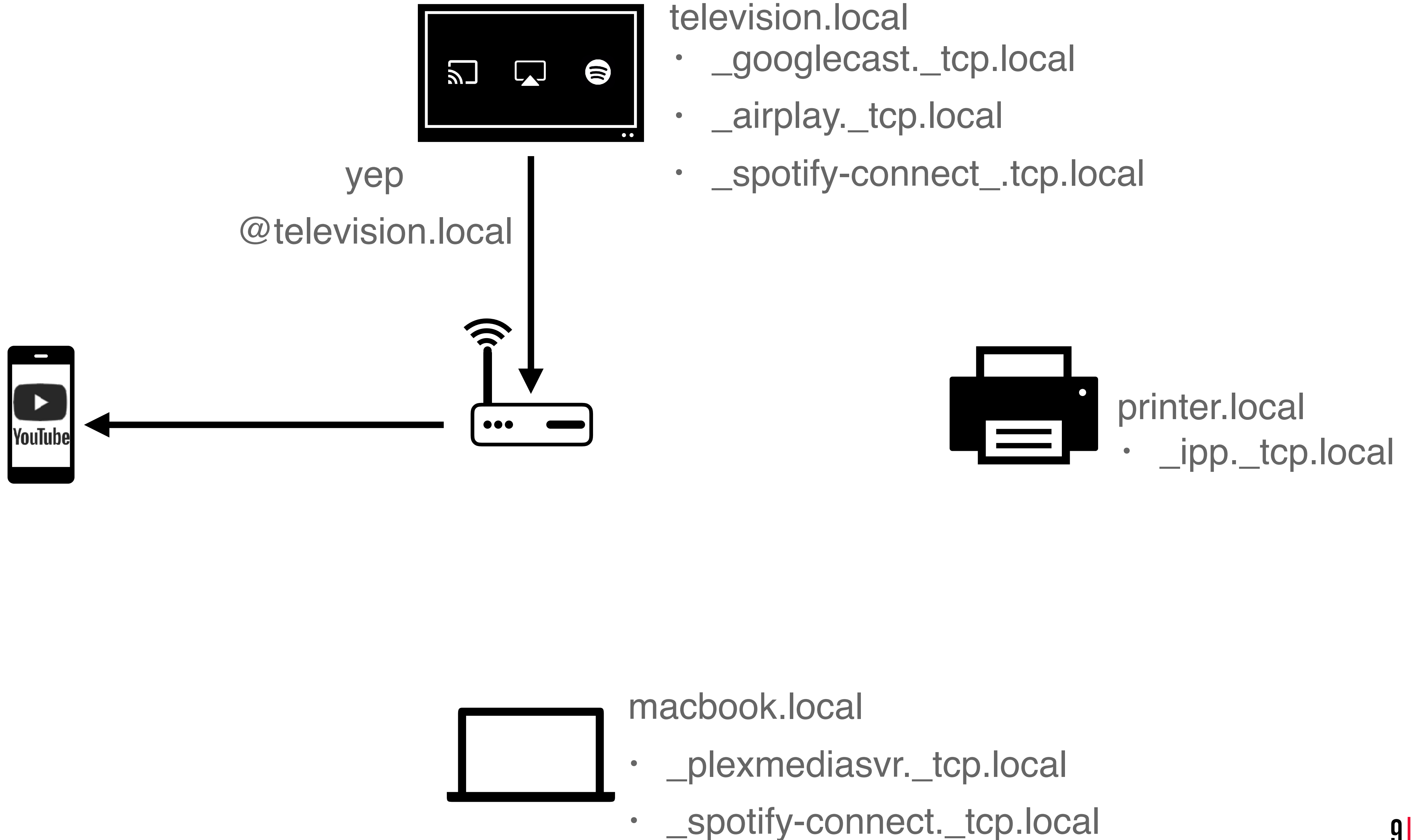
Multicast DNS is a way of using familiar DNS programming interfaces, packet formats and operating semantics, in a small network where no conventional DNS server has been installed.











# BONJOUR

Combines mDNS and DNS-SD to provide zero configuration networking.

Also works over P2P bluetooth and WiFi



# BONJOUR SUPPORT

iOS

macOS

watchOS

tvOS



# FRAMEWORKS

# FOUNDATION

## NetService

## NetServiceBrowser

### SDKs

- iOS 2.0+
- macOS 10.2+
- tvOS 9.0+

# NETWORK

## NWListener

## NWConnection

### SDKs

- iOS 12.0+
- macOS 10.14+
- tvOS 12.0+
- watchOS 5.0+
- Xcode 10.0+

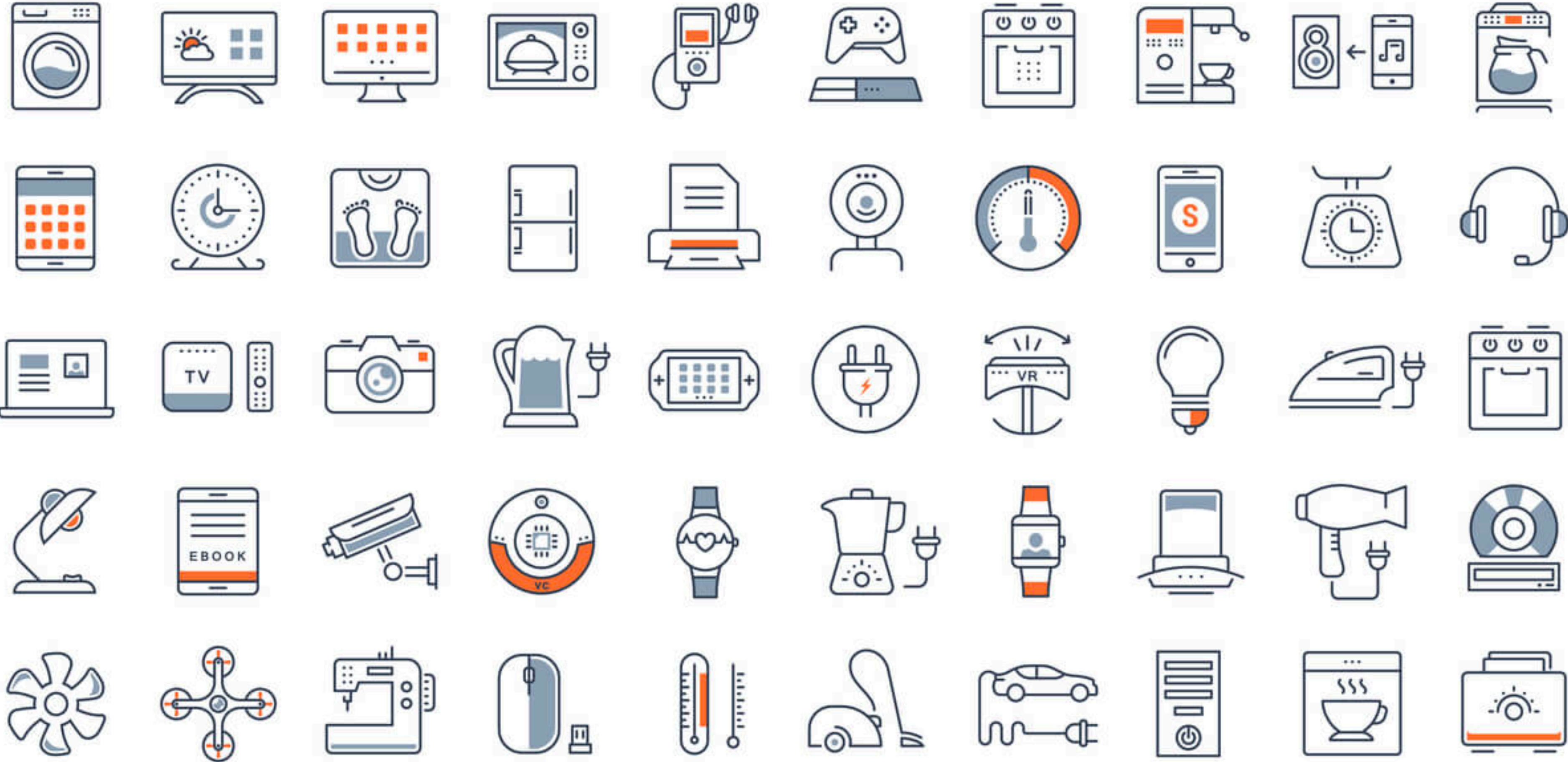
## NWBrowser

### SDKs

- iOS 13.0+<sub>Beta</sub>
- macOS 10.15+<sub>Beta</sub>
- tvOS 13.0+<sub>Beta</sub>
- watchOS 6.0+<sub>Beta</sub>
- Xcode 11.0+<sub>Beta</sub>

**DEMO**

# USAGE



# HOW TO START

**Foundation.framework**

**NetService**

**NetServiceBrowser**

**Network.framework**

**NWBrowser**

**NWListener**

**NWConnection**





**<https://github.com/ALTavares/Ciao/>**

# THAT'S IT

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# QUESTIONS

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