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VIDEO

Q&A WITH SPEAKER [SPEAKER BIO](#)

Kathy Giori
Managing Director
EdTech and IoT Entrepreneur

Kathy Giori has recently decided to pursue being an EdTech Entrepreneur, working to promote the adoption of more open source software and hardware learning opportunities around the world. Her goal is to evangelize and teach physical computing principles not just to privileged communities, but also under-served ones. Her favorite tools for IoT development and management include MicroBlocks, PlatformIO, and WebThings by Mozilla. Her favorite microcontroller hardware is any board supported by MicroBlocks. :) microblocks.fun platformio.org iot.mozilla.org

SLIDES

DIY Smart Home Demonstration and How-to Using FOSS

Kathy Giori / MicroBlocks

#ossummit





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SLIDES

Linux Foundation Open Source Summit - North America

DIY Smart Home Demonstration and How-to Using FOSS



Q&A WITH SPEAKER SPEAKER BIO

Enter question here...

NEW QUESTION

Kathy Giori

June 2020

Web: microblocks.funTwitter: [@MicroBlocksFun](https://twitter.com/MicroBlocksFun)Source: bitbucket.org/john_maloneyiot.mozilla.org

@MozillaloT

github.com/mozilla-iotkgiori.github.io

@kgiori

github.com/kgiori

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MicroBlocks is a registered trademark of the Software Freedom Conservancy, PlatformIO is a registered trademark of PlatformIO.org, WebThings is a registered trademark of the Mozilla Corporation, and Raspberry Pi is a registered trademark of the Raspberry Pi Foundation.





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SLIDES

Tutorial

- Online [tutorial](#) walks through setup and configuration process of WebThings Gateway

Q&A WITH SPEAKER

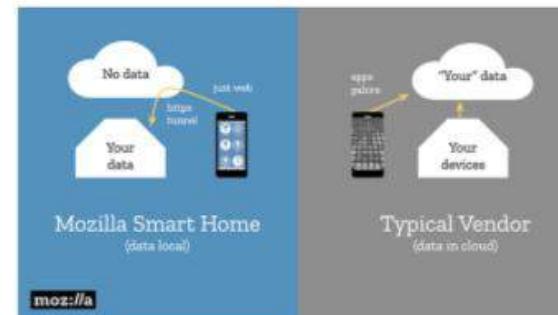
SPEAKER BIO

Enter question here...

NEW QUESTION

Set Up Your Own WebThings Gateway: It Respects Your Privacy!

June 2020 Tutorial



By Kathy Giori

Email: fint.lan@gmail.com
Twitter: [@kgiori](#)
LinkedIn: [kgiori](#)
Web: [kgiori.github.io](#)

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SLIDES

Security

I don't want hackers accessing my home network nor launching attacks.

Interoperability

I can't figure out how pushing the doorbell can trigger turning on the outside light.

Smart home concerns

What risks are worth the value?

Privacy

My data in the wrong hands would reveal when to break in. Analysts viewing my home habits feels creepy. I don't want any of those listening devices!

Overall Value

I worry that my investment in time, money, and effort will not provide sufficient value.





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SLIDES

IoT to Web of Things = Interoperability

W3C Web of Things

HTTP & WebSockets



IP Connected Devices (Wi-Fi, Ethernet,...)

Linking together different smart home systems using the Web of Things.

Enter question here...

NEW QUESTION



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SLIDES

The diagram illustrates two approaches to data management:

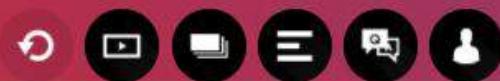
- Mozilla Smart Home (data local, private):** Represented by a white house-shaped cloud labeled "Your data". An arrow from this cloud points to a smartphone labeled "just web" with the text "https tunnel". Above the house is a smaller white cloud labeled "No data".
- Typical Vendor (data in cloud):** Represented by a grey house-shaped cloud labeled "Your devices". An arrow from this cloud points to a smartphone labeled "apps galore". Above the house is a larger white cloud labeled "Your" data".

Mozilla Smart Home
(data local, private)

moz://a

The diagram shows a grey house-shaped cloud labeled "Your devices" with an arrow pointing to a smartphone labeled "apps galore". Above the house is a larger white cloud labeled "Your" data".

Typical Vendor
(data in cloud)





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SLIDES

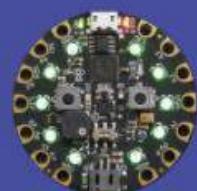
Your Own Private Smart Home

Gateway



WebThings Gateway
moz://a

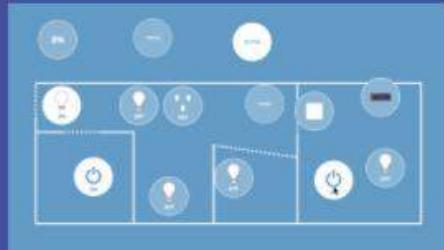
Smart Devices



buy
or
build

=

Consumer Privacy



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[NEW QUESTION](#)





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SLIDES

Q&A WITH SPEAKER SPEAKER BIO

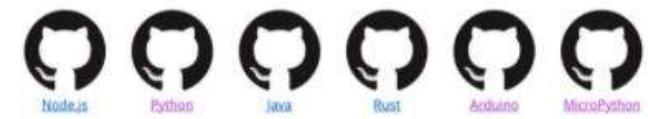
Enter question here...

NEW QUESTION

WebThings Framework

- Library support for many different programming languages
<https://iot.mozilla.org/framework>
- Mozilla schemas defined at
<https://iot.mozilla.org/schemas>

Mozilla WebThings Libraries





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SLIDES

Easily Build Your Own Web Things

The screenshot shows the Mozilla Web of Things interface. On the left, a file browser window titled "Mozilla Web of Things" lists several .ubp files: Ambulance.ubp, HeartRate.ubp, Hello.ED.ubp (circled in red), PushButton.ubp, SimLight.ubp, and TempHumidity.ubp. In the center, a "MicroBlocks" adapter plugin for Mozilla WebThings Gateway is shown with version 0.5.1. To the right, a "Scanning for new devices..." window shows a "Hello-LED" device with a "Light" capability. Below these windows, a sequence of MicroBlocks code is displayed:

```
when started
  set thing name to Hello LED
  set thing capability to Light
  set boolean property on title On-Off @Type OnOffProperty
  start WebThing server
forever
  when button A pressed
    set on to not on
```

On the right side, there are four small images: a lightbulb icon labeled "ON" and "Hello LED", a photograph of a breadboard with an LED glowing, a lightbulb icon labeled "OFF" and "Hello LED", and another photograph of the breadboard with the LED off.



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NEW QUESTION

SLIDES

Behind the blocks, is JSON

Capabilities

- Alarm
- BinarySensor
- ColorControl
- ColorSensor
- DoorSensor
- EnergyMonitor
- LeakSensor
- Light
- Lock
- MotionSensor
- MultiLevelSensor
- MultiLevelSwitch
- OnOffSwitch
- PushButton
- SmartPlug
- TemperatureSensor
- Thermostat

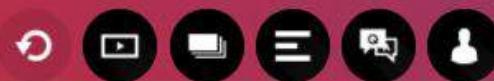
Properties

- BooleanProperty
- OnOffProperty
- MotionProperty
- OpenProperty
- LeakProperty
- PushedProperty
- AlarmProperty
- LevelProperty
- BrightnessProperty
- ColorTemperatureProperty
- InstantaneousPowerProperty
- CurrentProperty
- VoltageProperty
- FrequencyProperty
- TargetTemperatureProperty
- TemperatureProperty

```
set thing name to Hello LED
set thing capability to Light -
set boolean property on - title On-Off @Type OnOffProperty -
start WebThing server
thing description JSON
{
  "title": "Hello LED",
  "@context": "https://iot.mozilla.org/schemas/",
  "@type": ["Light"],
  "links": [
    {
      "rel": "events",
      "href": "/events"
    },
    {
      "rel": "properties",
      "href": "/properties/on"
    }
  ],
  "properties": {
    "on": {
      "links": [
        {
          "href": "/properties/on"
        }
      ],
      "title": "On-Off",
      "type": "boolean",
      "@type": "OnOffProperty",
      "readOnly": false
    }
  },
  "events": []
}
```

Events

- OverheatedEvent
- PressedEvent
- DoublePressedEvent
- LongPressedEvent
- AlarmEvent
- ColorProperty
- TextProperty
- HeatingCoolingProperty
- LockedProperty
- ThermostatModeProperty





VIDEO Q&A WITH SPEAKER SPEAKER BIO

Enter question here...

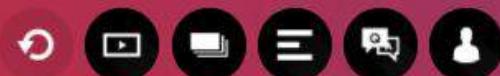
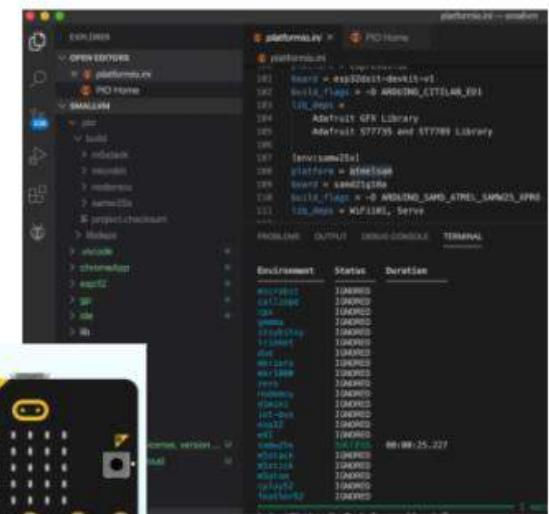
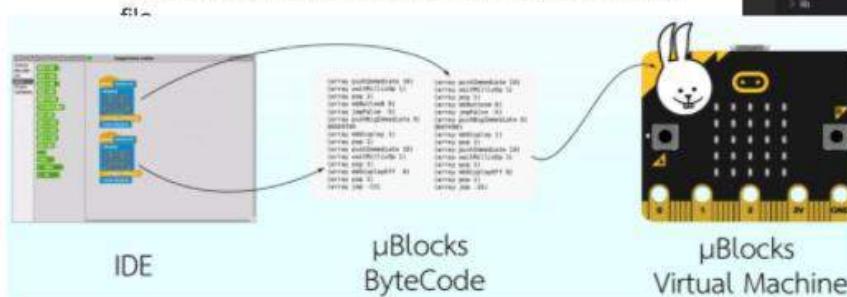
NEW QUESTION

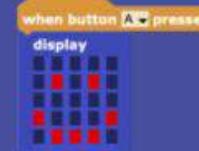
SLIDES



VM Built Using PlatformIO

- Blocks run in a virtual machine as byte code
- VM compiled using Arduino framework running in PlatformIO
- See currently supported hardware in platformio.ini



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Output

- Input
- Pins
- Control
- Operators
- Variables
- Data
- My Blocks

Demo Time!

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SLIDES

QuickTime Player File Edit View Window Help

WebThings: https://giorgi.mozilla-iot.org/things

Homefront house everything office office button Speaker music

study front hall front door entry door garden garden button TV area

NO MOTION NO MOTION NO MOTION OFF CLOSED OFF OFF OFF

THING THING THING +





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SLIDES

Firefox Nightly File Edit View History Bookmarks Tools Window Help

WebThings G... WebThings G... WebThings G... WebThings G... WebThings G... WebThings G... WiFi Capabilities Supported Hosts

Fri 12:03 PM

https://girol.mozilla-iot.org/things/onvif-00626E937A3U/

100%

Homefront

Profile

High Quality

Snapshot

Streaming

Stream

Enter question here... NEW QUESTION





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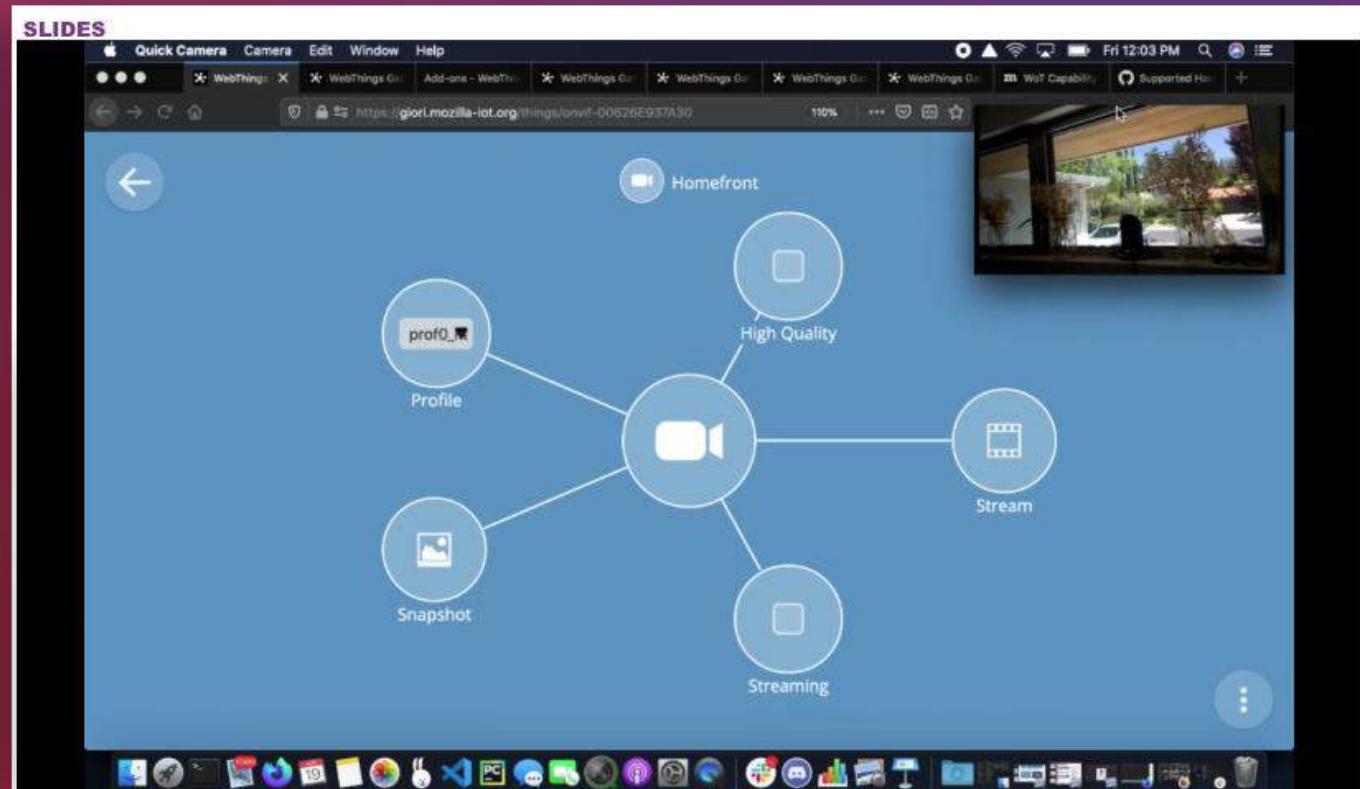
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SLIDES

The slide is titled "WebThings" and shows a grid of 24 circular icons, each with a small star icon in the top right corner. The icons represent various IoT controls and states:

- Row 1: Homefront, house, everything, office, office button, Speaker, music.
- Row 2: study, front hall, front door, entry door, garden, garden button, TV area.
- Row 3: NO MOTION, NO MOTION, NO MOTION, OFF, CLOSED, OFF, THING.
- Row 4: THING, NO MOTION, +.

Below the slide, a standard Mac OS X dock is visible with various application icons.





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SLIDES

Firefox Nightly File Edit View History Bookmarks Tools Window Help

WebThings: WebThings: Add-ons - WebThings: WebThings: WebThings: WebThings: WebThings: WebThings: Fri 12:03 PM

Homefront house everything office office button Speaker music

study front hall front door entry door garden garden button TV area

NO MOTION NO MOTION NO MOTION OFF CLOSED OFF OFF



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SLIDES

The screenshot shows a Firefox browser window titled "SLIDES" displaying a grid of IoT device status icons. The icons are arranged in three rows:

- Row 1:** NO MOTION (porch area), NO MOTION (study area), NO MOTION (back deck), OFF (string), CLOSED (upper deck door), OFF (fan), THING (G-Home).
- Row 2:** OFF (piano), THING (piano button), OFF (Coffee), INACTIVE (coffee button), LEAK (sink), 23°C (temp laundry), 25°C (Weather Stanford).
- Row 3:** INACTIVE (Earthquakes Stanford), Tide Redwood City, 12h (Stanford), Slack, OFF (stream-time), OFF (voice-controller), THING (Scene Controller).

The browser's address bar shows <https://giorgi.mozilla-iot.org/things>. The status bar at the bottom indicates it's Friday at 12:05 PM.



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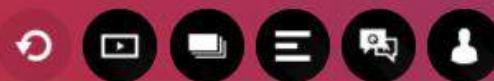
SLIDES

language

text ion conference attendees

volume 50%

SUBMIT QUERY





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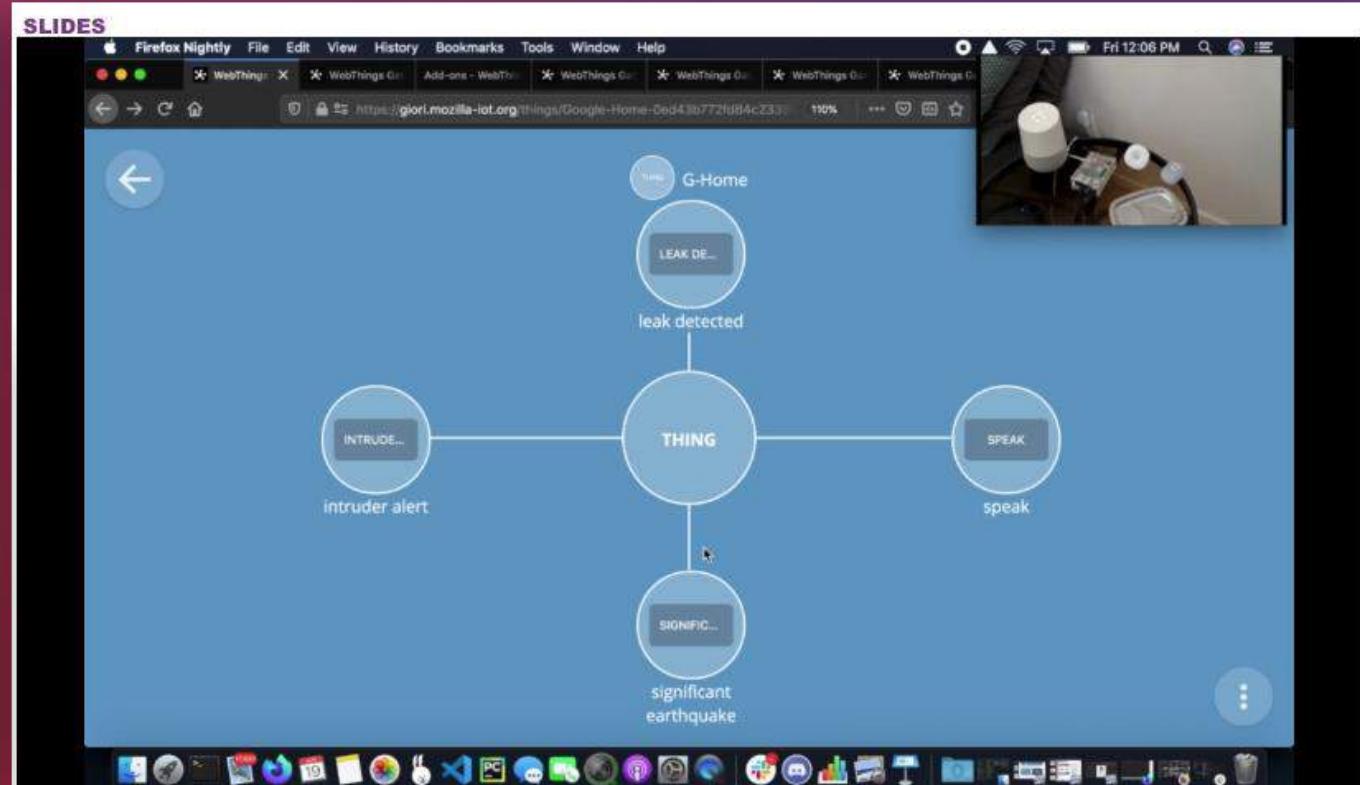
North America



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SLIDES

A screenshot of a Firefox browser window displaying a Sonos control interface. The interface is a circular diagram centered around the word "SONOS", with various control buttons arranged around it. These buttons include "NEXT", "PREVIOUS", "STOP", "PLAY URN", "GROUP UP", "Group/Ungroup", "Shuffle", "None", "Crossfade", "Repeat", "Artist", "Album", "Track", "André Previn - Why Do I Love You", "Album art", and "Muted". In the top right corner of the slide view, there is a small video feed showing a woman with blonde hair. The browser's address bar shows a URL starting with "https://giorgi.mozilla-iot.org/things/34-7E-5C-3B-53-E0%3AB". The browser window has multiple tabs open, and the status bar at the bottom shows the date and time as "Fri 12:07 PM".





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SLIDES

Firefox Nightly File Edit View History Bookmarks Tools Window Help

WebThings G... WebThings G... WebThings G... WebThings G... WebThings G... WebThings G... Fri 12:08 PM

https://giorgi.mozilla-iot.org/Things

OFF OFF INACTIVE CLOSED ON

study front hall front door entry door garden garden button TV area

NO MOTION NO MOTION NO MOTION OFF CLOSED OFF THING

porch area study area back deck string upper deck door fan G-Home

OFF THING OFF INACTIVE LEAK 23°C 25°C

piano piano button Coffee coffee button sink temp laundry Weather Stanford



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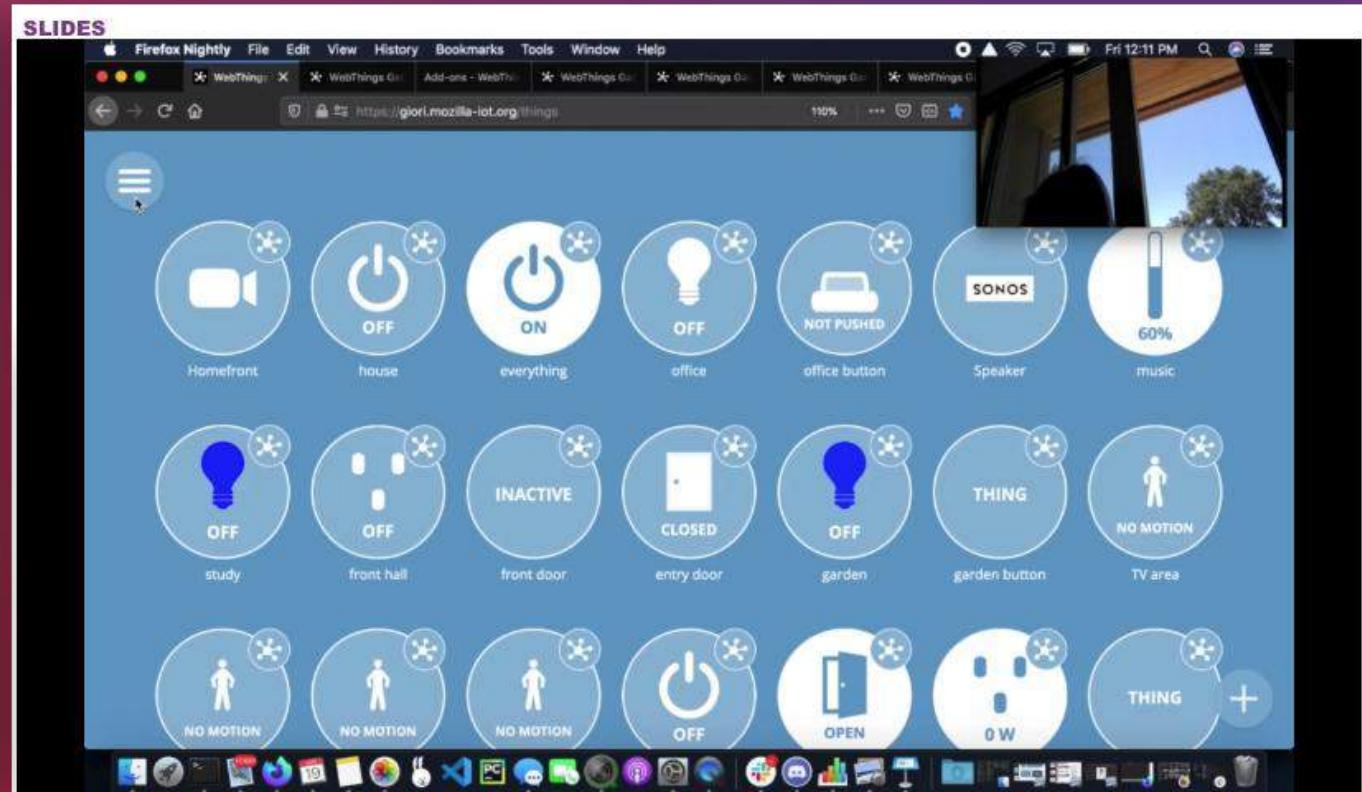
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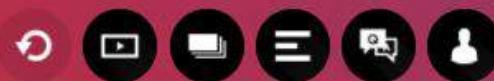
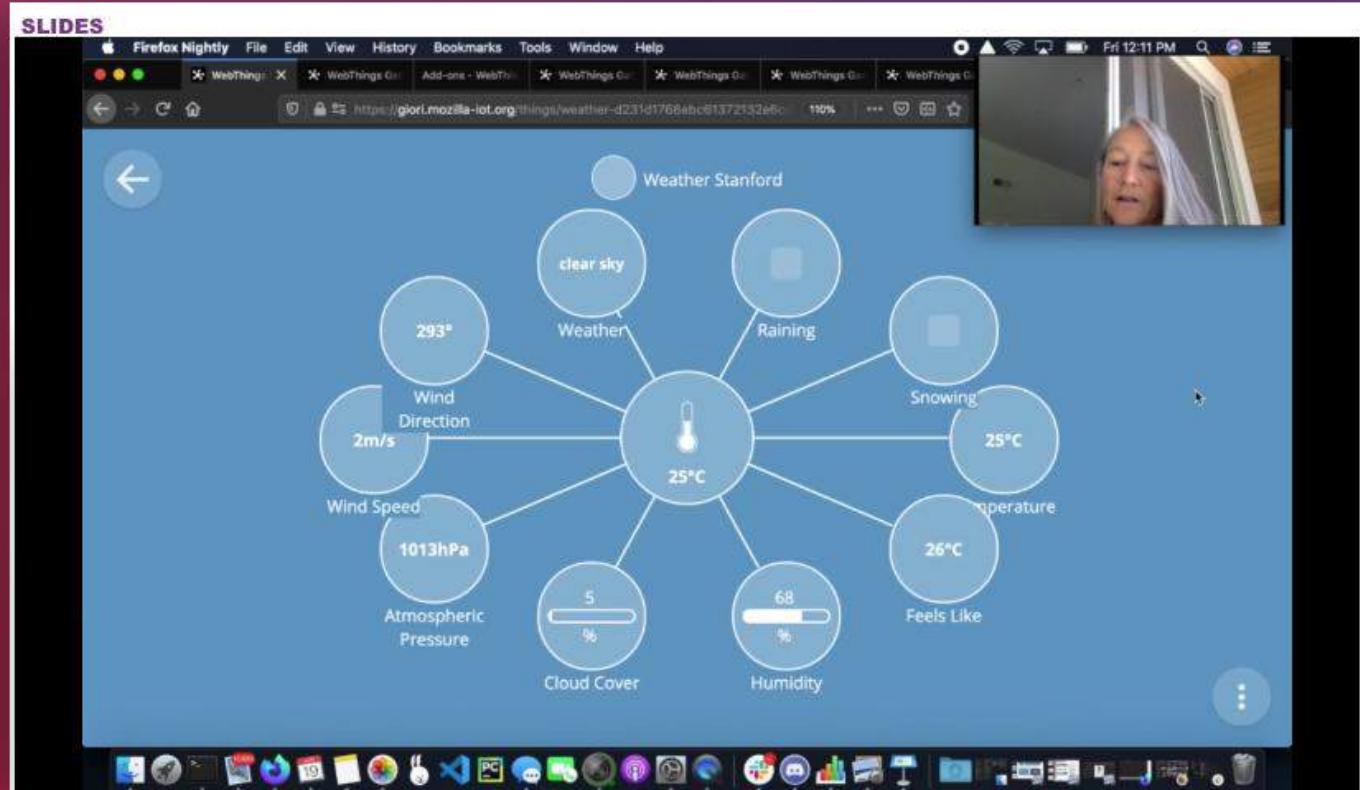
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Firefox Nightly File Edit View History Bookmarks Tools Window Help

WebThing Mozilla IoT MicroBlocks WebThing Add-ons - Web Thing WebThing WebThing WebThing WebThing WebThing WebThing WebThing WebThing

https://giori.mozilla-iot.org/settings/addons/config/pulse-adapter 110% Mon 10:54 AM

Configure pulse-adapter

pulses

name* Name of pulse house

ID of the pulse (will be generated for you) 5ba93480bd8b743454a93dca0848492

duration* Duration of pulse in seconds 1

Invert Invert pulse such that it goes off->on, rather than on->off, after duration

extendOnRetrigger

onlineexperiences.com is sharing your screen. Stop sharing Hide

The screenshot shows a Firefox browser window titled "Configure pulse-adapter". The URL is https://giori.mozilla-iot.org/settings/addons/config/pulse-adapter. The page is a form for creating a new pulse. It has fields for "name*" (set to "house"), "ID of the pulse (will be generated for you)" (containing the auto-generated ID "5ba93480bd8b743454a93dca0848492"), "duration*" (set to "1"), and "Invert" (with a checkbox checked). At the bottom, there's a note about "extendOnRetrigger". A status bar at the bottom of the browser window says "onlineexperiences.com is sharing your screen." There are also "Stop sharing" and "Hide" buttons. The browser's toolbar and menu bar are visible at the top.





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Firefox Nightly File Edit View History Bookmarks Tools Window Help

WebThing Mozilla IoT MicroBlock WebThing Add-ons - Web Thing WebThing WebThing WebThing WebThing WebThing WebThing WebThing WebThing

https://giorgi.mozilla-iot.org/settings/addons/config/pulse-adapter 100% Mon 10:54 AM

Name of pulse: everything

ID of the pulse (will be generated for you): d5a63c95d431e19e371bfa1b7eb0d6aee

duration*: Duration of pulse in seconds: 1

Invert: Invert pulse such that it goes off->on, rather than on->off, after duration

extendOnRetrigger: Extend the pulse if it is retriggered while active:

name*: Name of pulse

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The screenshot shows a Firefox Nightly window displaying the Mozilla IoT settings page for add-ons. The URL in the address bar is <https://giori.mozilla-iot.org/settings/addons>. The page lists four add-ons:

- ONVIF Profile S camera adapter.** Version 0.4.0, by Mozilla IoT (license). Buttons: Configure, Remove, Disable.
- Pulse** Pulse adapter plugin for Mozilla WebThings Gateway. Version 0.4.0, by Mozilla IoT (license). Buttons: Configure, Remove, Disable.
- Scene Control** Scene control adapter plugin for Mozilla WebThings Gateway. Version 0.1.0, by Mozilla IoT (license). Buttons: Configure, Remove, Disable.
- Slack** Send slack messages to your workspace. Version 0.2.2, by onlinexperiences.com. A message indicates "onlineexperiences.com is sharing your screen." Buttons: Stop sharing, Hide.

At the bottom of the browser window, a toolbar displays various application icons.





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The screenshot shows a Firefox Nightly browser window with the URL <https://giori.mozilla-iot.org/things/zb-d0cf5efffe294321>. The page displays a blue background with a white circular interface. On the left is a color picker dialog titled "Choose a color". In the center is a lightbulb icon labeled "ON". To the right is a small color bar labeled "Color". A circular button labeled "study" is at the top right. A message at the bottom says "onlineexperiences.com is sharing your screen." The browser toolbar at the top includes icons for back, forward, search, and refresh, along with the address bar and tabs.



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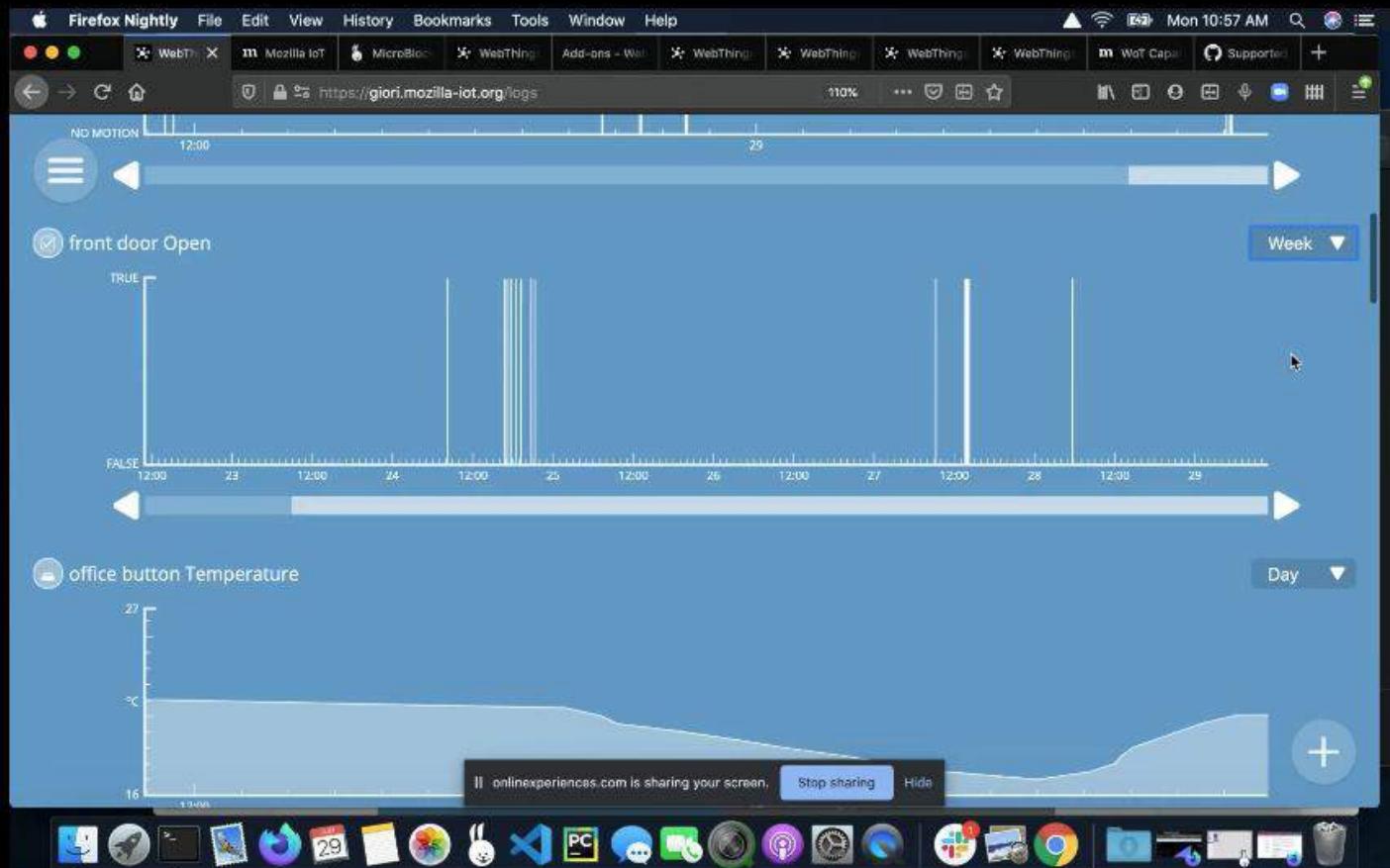
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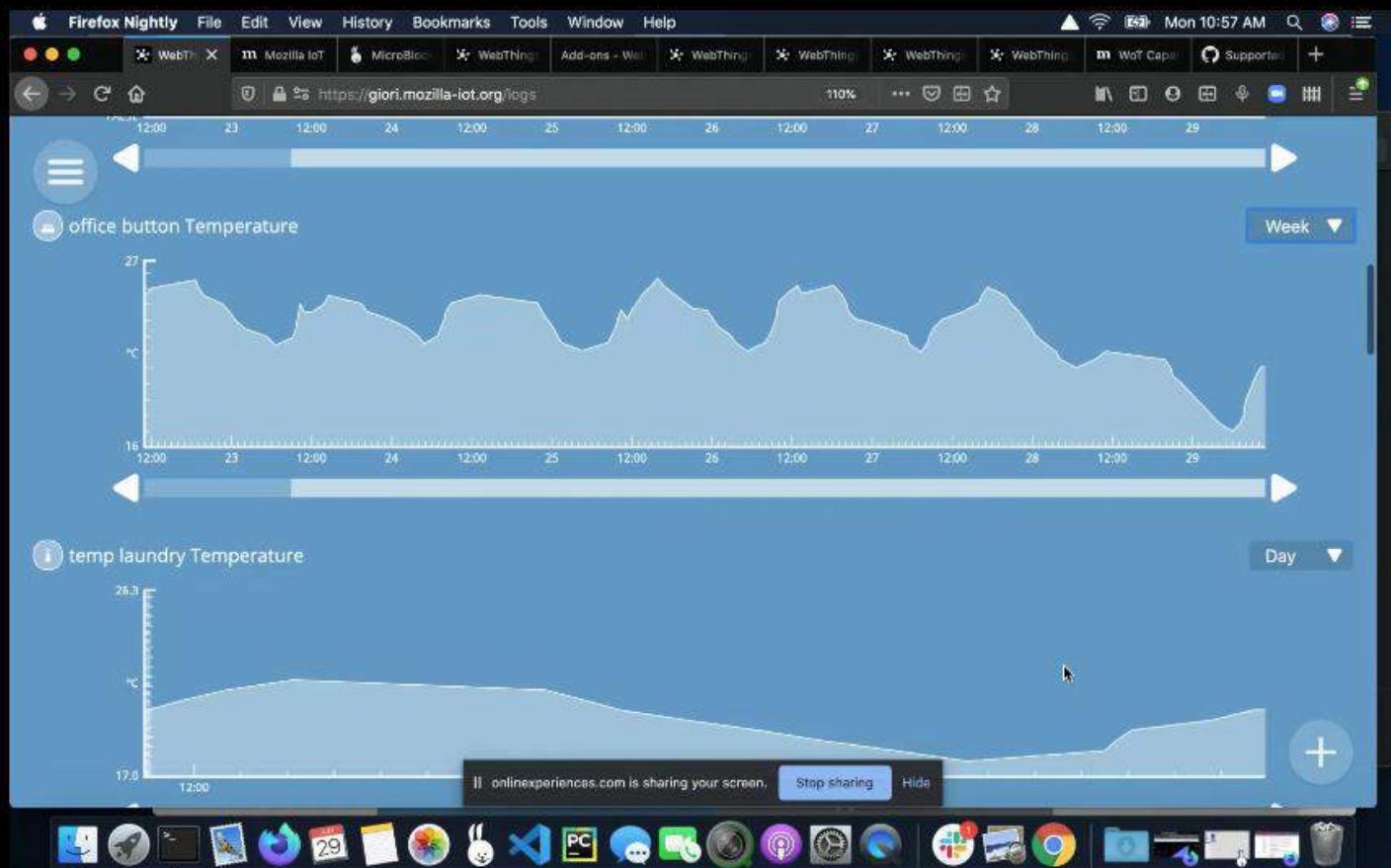


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NEW QUESTION

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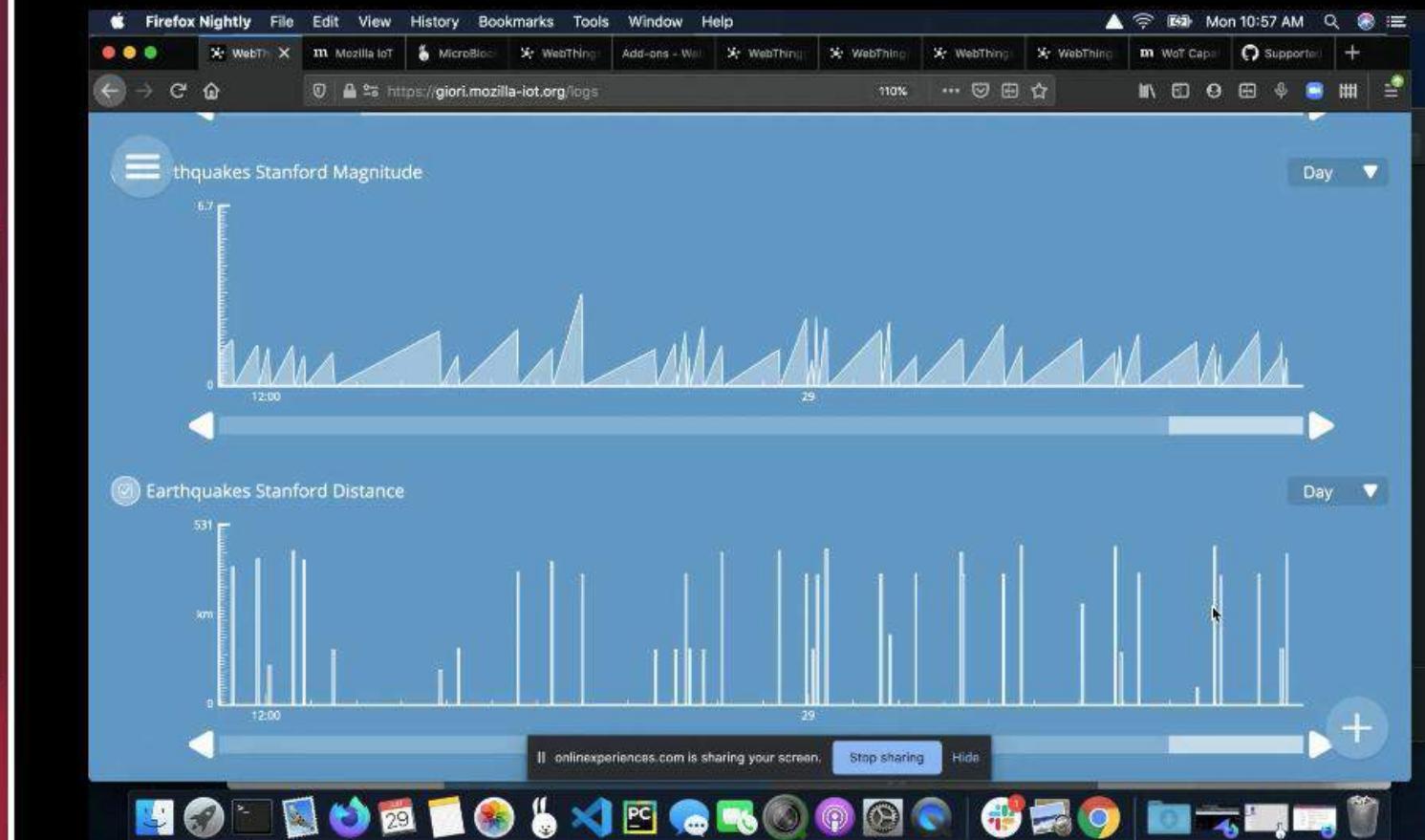
Q&A WITH SPEAKER

SPEAKER BIO

Enter question here...

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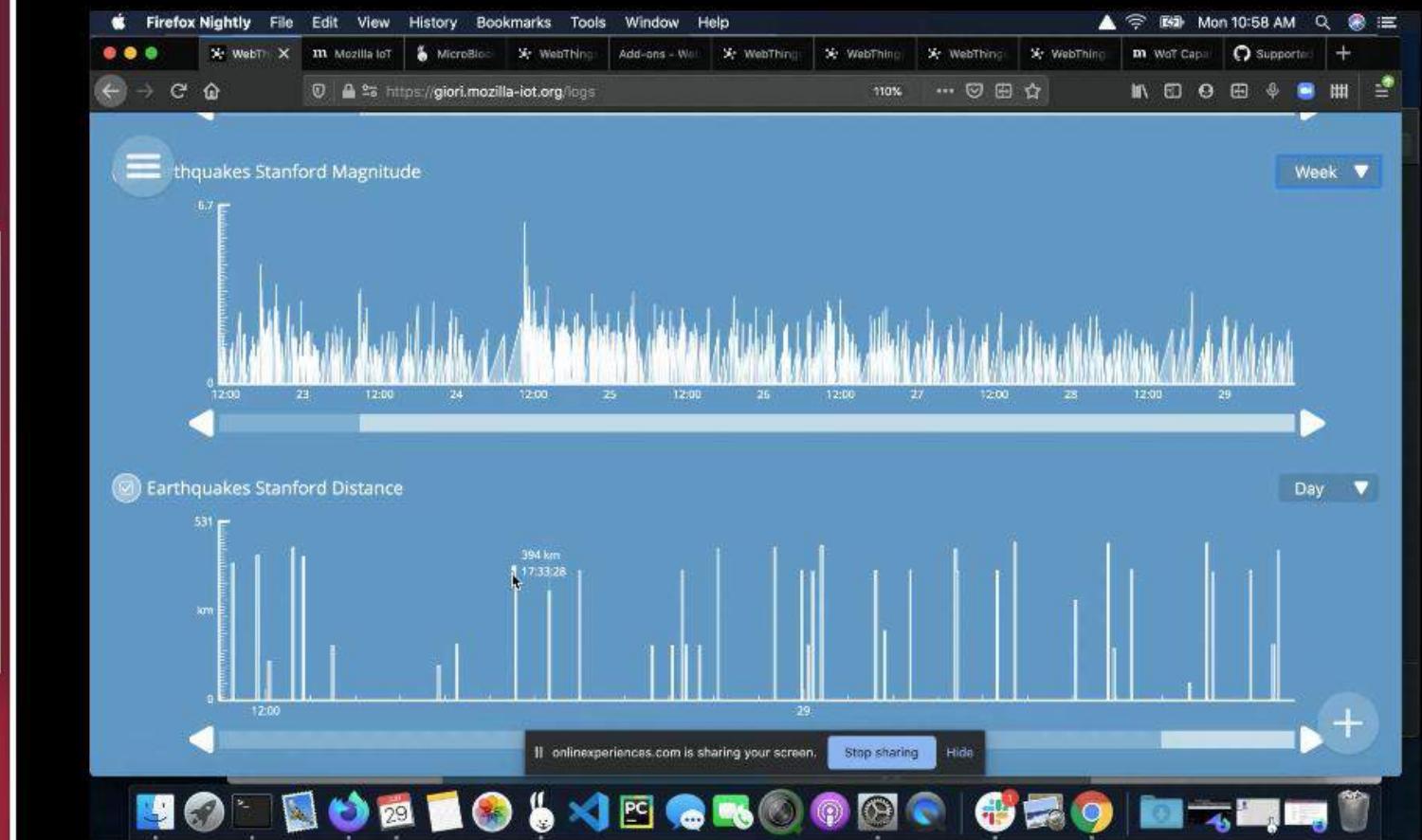
Q&A WITH SPEAKER

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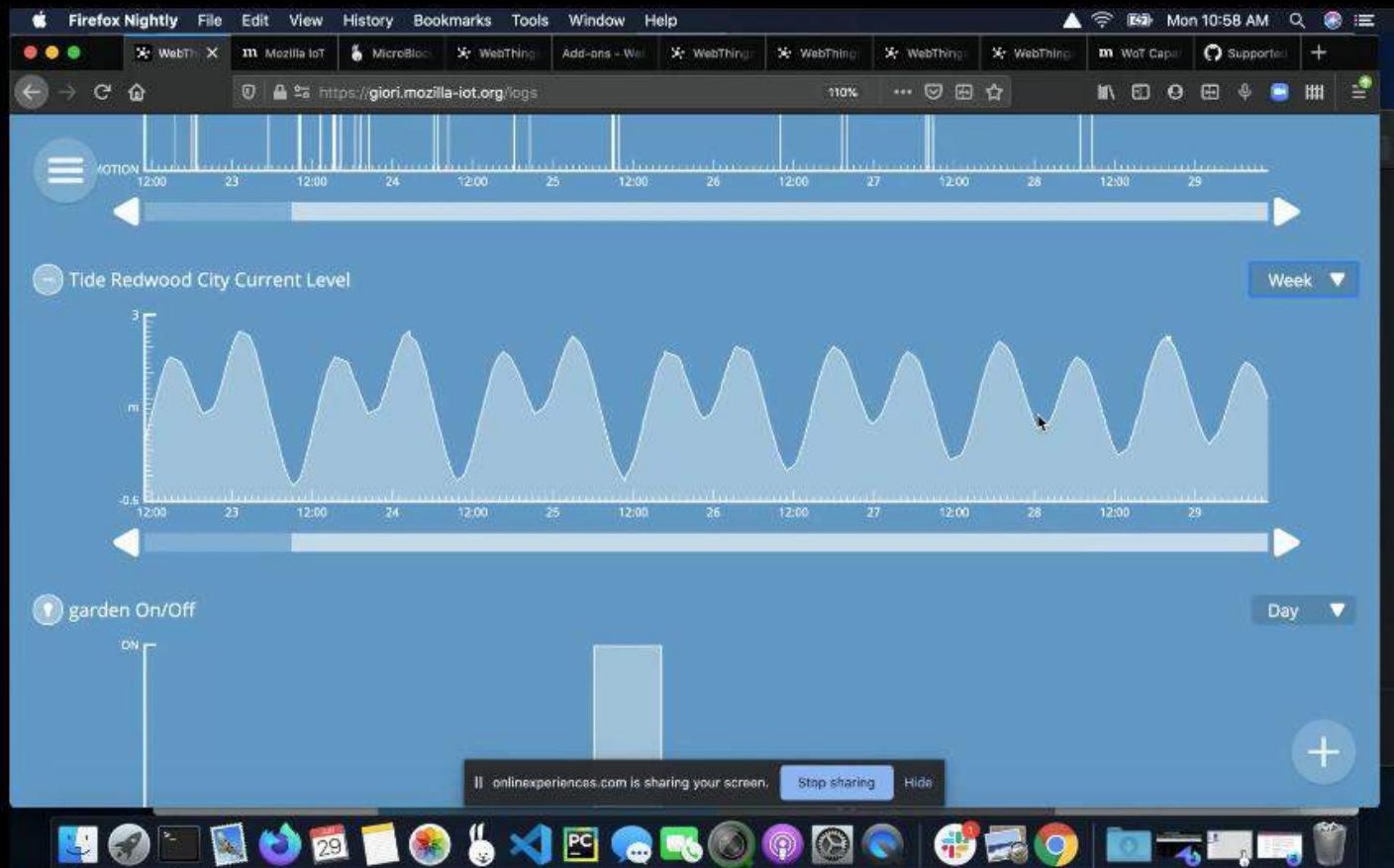
Q&A WITH SPEAKER

SPEAKER BIO

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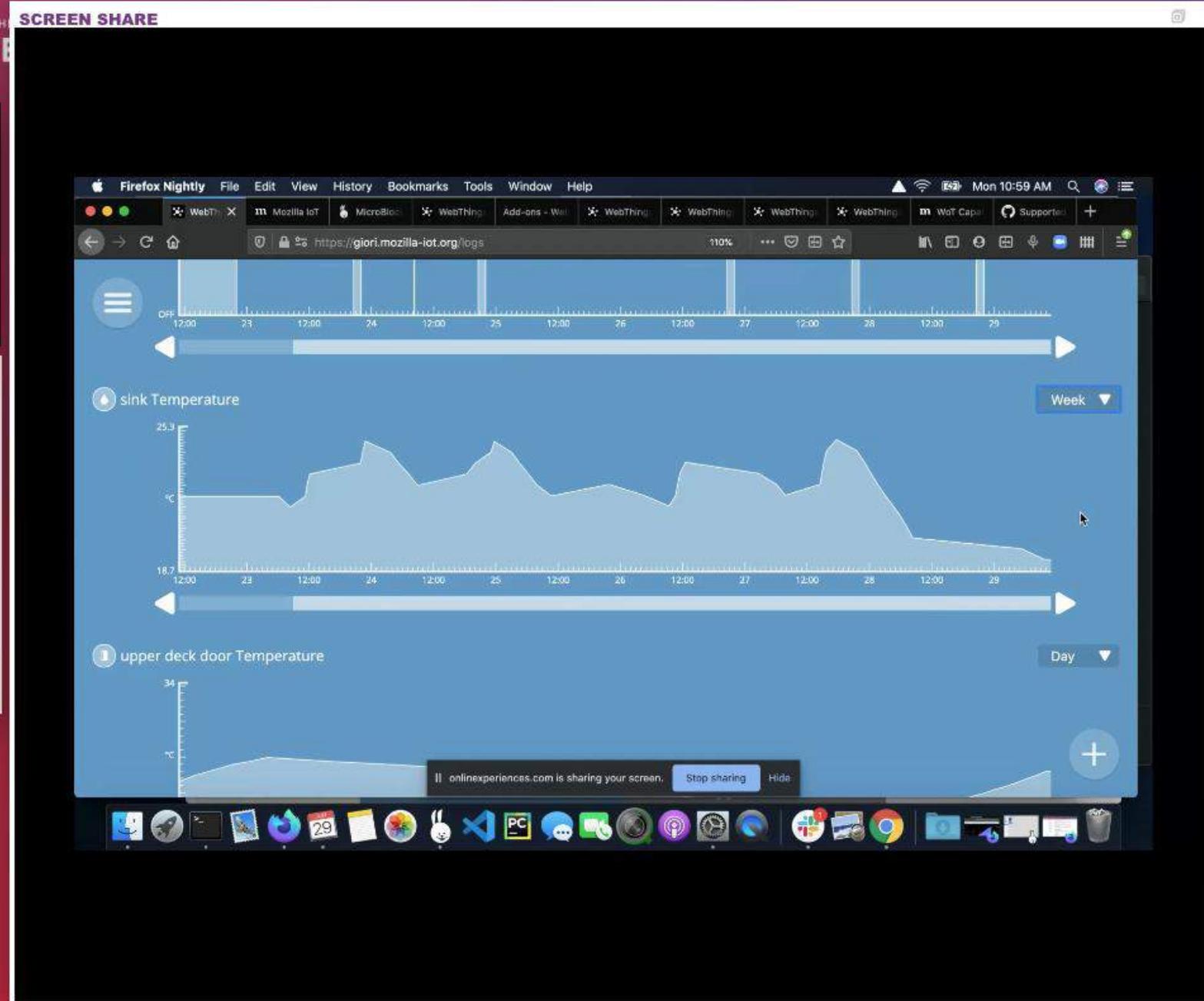


Q&A WITH SPEAKER

SPEAKER BIO

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Q&A WITH SPEAKER SPEAKER BIO

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Q&A WITH SPEAKER SPEAKER BIO

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NEW QUESTION

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Firefox Nightly File Edit View History Bookmarks Tools Window Help

WebThing Mozilla IoT MicroBlock WebThing Add-ons - Web Thing WebThing WebThing

https://giori.mozilla-iot.org/rules

Rules

press office on

If office button event "pressed" occurs, turn office on

double office off

If office button event "doublePressed" occurs, turn office off

long press max office brightness

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SONOS





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Q&A WITH SPEAKER

SPEAKER BIO

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press office on ✓
If office button event "pressed" occurs, turn office on

```
graph LR; A[office button] -- "Event \"pressed\"" --> B[office]; B -- "On" --> C[ ]
```

Clock Browser Notification Slack Notification Google- Homefront house everything office office button

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Q&A WITH SPEAKER SPEAKER BIO

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NEW QUESTION

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The screenshot shows a Mozilla Firefox Nightly browser window displaying a rule configuration page for a WebThing. The URL is <https://giori.mozilla-iot.org/rules/12>. The rule title is "illuminate at sunset". The condition part of the rule states: "If Stanford event "Sunset" occurs, turn office on and turn garden on". The action part shows two lightbulb icons labeled "office" and "garden", each with a dropdown menu set to "On". Below the rule editor, there is a toolbar with various icons for different WebThings like Clock, Browser Notification, Slack Notification, Google+, Homefront, house, everything, office, and office button. A status bar at the bottom indicates "onlineexperiences.com is sharing your screen".





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Q&A WITH SPEAKER

SPEAKER BIO

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The screenshot shows a Firefox Nightly browser window displaying a Mozilla IoT WebThing interface. The URL is <https://giori.mozilla-iot.org/rules/12>. The page title is "illuminate at sunset". The rule description is "If Stanford event "Sunset" occurs, turn office on and turn garden on". A dropdown menu for the "Stanford" condition is open, showing options: Even minute, Not Even minute, Dark, and Not Dark. The "Even minute" option is selected. Two WebThings are shown: "office" (yellow lightbulb icon) and "garden" (yellow lightbulb icon). Both are currently set to "On". Below the interface is a dock bar with various icons for Clock, Browser Notification, Slack Notification, Google, Homefront, house, everything, office, and office button. The status bar at the bottom indicates "onlineexperiences.com is sharing your screen".



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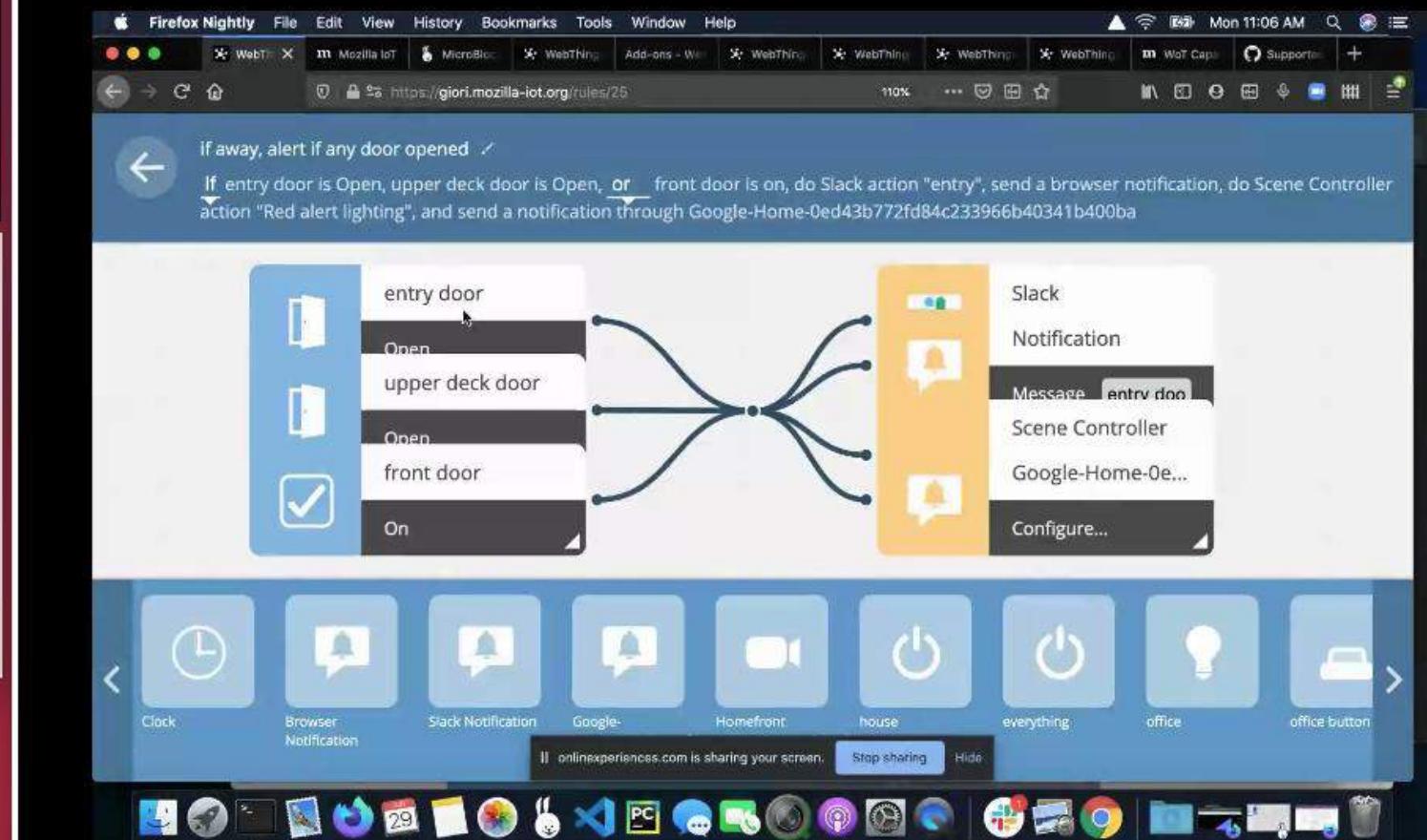


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SCREEN SHARE

Firefox Nightly File Edit View History Bookmarks Tools Window Help

Domain Network Users Add-ons Localization Updates

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Q&A WITH SPEAKER SPEAKER BIO

Enter question here...

NEW QUESTION



Questions? Ask the Events team on the #1-helpdesk Slack channel

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Q&A WITH SPEAKER

SPEAKER BIO

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NEW QUESTION

SCREEN SHARE

The screenshot shows a Firefox Nightly browser window with the URL <https://giori.mozilla-iot.org/settings/localization>. The page displays a "Localization" interface with tabs for "Language & Region", "Timezone", and "Temperature". A dropdown menu is open under "Language & Region", listing various languages and their regions. The "English (United States of America)" option is selected. Other listed languages include French, German, Hungarian, Indonesian, Interlingua, Italian, Japanese, Kabyle, Polish, Portuguese, Russian, Serbian, Slovak, Spanish, Spanish (Spain), Swedish, Tamil, Welsh, and Western Frisian.

- ✓ English (United States of America)
- French
- German
- Hungarian
- Indonesian
- Interlingua (International Auxiliary Language Association)
- Italian
- Japanese
- Kabyle
- Polish
- Portuguese (Brazil)
- Russian
- Serbian
- Slovak
- Spanish (Argentina)
- Spanish (Spain)
- Swedish (Sweden)
- Tamil
- Welsh
- Western Frisian (Netherlands)



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Q&A WITH SPEAKER SPEAKER BIO

Enter question here...

NEW QUESTION

SCREEN SHARE

New version available.

Updates

Update Now

Current version: 0.11.0

Last update: Tue Feb 18 2020 00:01:22 GMT-0800 (Pacific Standard Time)

Enable automatic updates

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SCREEN SHARE

Firefox Nightly File Edit View History Bookmarks Tools Window Help

WebThing Mozilla IoT MicroBlock WebThing Add-ons - Web Thing WebThing WebThing WebThing WebThing WebThing WebThing WoT Capa Supported +

https://giori.mozilla-iot.org/settings/authorizations 100% ... 🔍 🌐 ⚡

Authorizations

Local Token Service gateway.localhost X Revoke

onlineexperiences.com is sharing your screen. Stop sharing Hide

The screenshot shows a Firefox Nightly browser window with multiple tabs open. The active tab displays a Mozilla IoT settings page for 'Authorizations'. A prominent blue overlay box from 'onlineexperiences.com' is sharing the screen, indicating that the user's screen is being recorded. The overlay includes a shield icon with a checkmark, the text 'Local Token Service', 'gateway.localhost', and a 'Revoke' button. The status bar at the bottom of the browser indicates the sharing is active.

Enter question here...

NEW QUESTION





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Q&A WITH SPEAKER

SPEAKER BIO

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NEW QUESTION

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The screenshot shows a Firefox Nightly browser window with multiple tabs open, including ones for Mozilla IoT and WebThing. The main content area displays developer settings under 'Developer'. Three items are listed:

- Enable SSH (checkbox checked)
- View Internal Logs (checkbox unchecked)
- Create local authorization (checkbox checked)

A status bar at the bottom of the browser window indicates "onlineexperiences.com is sharing your screen." Below the browser is a dock with various application icons.





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SCREEN SHARE

Firefox Nightly File Edit View History Bookmarks Tools Window Help

Logs - WebThin Mozilla MicroB WebThin Add-ons - W WebThin WebThin

https://giori.mozilla-iot.org/internal-logs?jwt=eyJhbGciOiJFUzI1NiJ9.eyJleHAiOjE2MjUyOTUwNjMsImV4cCI6MTYyNTI5NTA2MywidHlwZSI6ImF1dGhvcml0eSJ9.yCQDgXfPmKoWuqkzvJXG0JyfPQ

- run-app.log.2020-06-20
- run-app.log.2020-06-21
- run-app.log.2020-06-22
- run-app.log.2020-06-23
- run-app.log.2020-06-24
- run-app.log.2020-06-25
- run-app.log.2020-06-26
- run-app.log.2020-06-27
- run-app.log.2020-06-28
- run-app.log.2020-06-29

Q&A WITH SPEAKER SPEAKER BIO

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Q&A WITH SPEAKER

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NEW QUESTION

SCREEN SHARE

The screenshot shows a Firefox Nightly browser window with the URL https://giori.mozilla-iot.org/auth/authorize?response_type=code&client_id=1. The main content is titled "Authorization Request" and asks if "Local Token Service would like to access your gateway to monitor and control services." A tooltip highlights the word "monitor". Below this, there are two options: "Allow for all Things" (checked) and a list of specific devices: fan, office, study, string, Speaker, voice-controller, and Star. At the bottom of the browser window, a status bar indicates "onlineexperiences.com is sharing your screen." The desktop background shows a dark theme with various application icons in the Dock.



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NEW QUESTION

SCREEN SHARE

The screenshot shows a Firefox browser window with the title "glovi.mozilla-lot.org". The main content area displays a list of recent interactions:

- command 14 hours ago: data: turn off the office
- speechinput 14 hours ago: data: detected
- wakeword 14 hours ago: data: detected
- command 2 days ago: data: turn off the string

At the bottom of the browser window, there is a message: "You're experiencing screen sharing your screen. Stop sharing". Below the browser, the Mac OS X Dock is visible, showing various application icons.



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SPEAKER BIO

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NEW QUESTION

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Firefox Nightly File Edit View History Bookmarks Tools Window Help

WebThing Mozilla IoT MicroBlock WebThing Add-ons - Web Thing WebThing WebThing WebThing WebThing WebThing WebThing WebThing WebThing WebThing WebThing

https://giori.mozilla-iot.org/settings addons 110% Mon 11:12 AM

Add-ons

DateTime Adapter 1.0.1

Date & Time addon for Mozilla WebThings Gateway

Because of a bug in rule engine after adding a 'Dark' or 'Weekend' to the rule, change state for them manually.

See <https://github.com/tomasz/date-time-adapter>

by [tomasz](#) ([license](#))

Configure Remove Disable

Earthquake Monitor 0.3.0

Earthquake monitor for Mozilla WebThings Gateway

by [Mozilla IoT](#) ([license](#))

Configure Remove Disable

Google Home Text to Speech 1.1.1

II onlinexperiences.com is sharing your screen.

Stop sharing Hide

+



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Q&A WITH SPEAKER SPEAKER BIO

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NEW QUESTION

SCREEN SHARE

VIDEO

Firefox Nightly File Edit View History Bookmarks Tools Window Help

https://github.com/tim-hellake/google-home-adapter#readme

manifest.json Release 1.1.1 6 months ago

package-lock.json Release 1.1.1 6 months ago

package.json Release 1.1.1 6 months ago

package.sh Exclude dev dependencies from bundle 7 months ago

tsconfig.json Don't transpile classes 12 months ago

README.md

Google Home Adapter

build passing dependencies pending devDependencies pending optionalDependencies pending license MPL-2.0

Uses your Google Home device to speak to you.

Usage

The addon registers a google-home device with a `speak(text, language, volume)` action. If you don't specify a language the default language (en) will be used. You can change the default language in the config.

For a list of possible language values see <https://cloud.google.com/speech-to-text/docs/languages>.

Currently, a rule can only trigger parameterless actions.

To read a text from a rule, you have to register a

onlineexperiences.com is sharing your screen. Stop sharing Hide





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SCREEN SHARE

VIDEO



Q&A WITH SPEAKER

SPEAKER BIO

Enter question here...

NEW QUESTION

The screenshot shows a screen sharing interface during a video conference. On the left, there's a video feed of a woman with long hair, wearing a headset, speaking. To her right is a sidebar with "Q&A WITH SPEAKER" and "SPEAKER BIO" buttons, and a text input field for asking questions. The main area is titled "SCREEN SHARE" and displays a Firefox browser window sharing a GitHub README page for a "Slack Adapter". The README includes instructions for creating a Slack app, adding a webhook, and configuring the adapter. A status bar at the bottom of the browser shows "build passing", "dependencies pending", "devDependencies pending", "optionalDependencies pending", and "license MPL-2.0". A message from "onlinexperiences.com" is visible in the browser's status bar, indicating they are sharing their screen. The bottom of the browser shows a toolbar with various icons.





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Q&A WITH SPEAKER

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NEW QUESTION

SCREEN SHARE

The screenshot shows a Firefox Nightly browser window with the URL <https://giori.mozilla-iot.org/settings/addons/discovered>. The page displays three add-ons:

- ActivityPub** 0.0.20
Send notice to Mastodon SocialWeb.
by Philippe Coval ([license](#))
+ Add
- Azure IoT bridge** 0.1.7
Connect your devices to an Azure IoT hub.
by Tim Hellhake ([license](#))
+ Add
- BME280/BMP280** 0.1.1
Get temperature and pressure data from BMP280-like sensors.
by [onlineexperiences.com](#)
II onlineexperiences.com is sharing your screen.
Stop sharing Hide + Add

The browser's toolbar at the bottom includes icons for Home, Stop, Refresh, Back, Forward, Stop sharing, Hide, and Add.



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SCREEN SHARE

Firefox Nightly File Edit View History Bookmarks Tools Window Help

WebThing Mozilla IoT MicroBlock WebThing Add-ons - Web Thing WebThing WebThing WebThing WebThing WebThing WebThing Mozilla IoT Capabilities Supported

https://giori.mozilla-iot.org/settings/addons/discovered 110% Mon 11:14 AM

+ Add

Earthquake Monitor 0.3.0
Earthquake monitor using USGS data
by Mozilla IoT (license) Added

+ Add

Email Sender 0.3.0
Simple email sending actions. Needs to be configured with email and app password.
by Mozilla IoT (license)

+ Add

EnOcean 0.1.7
Connect your EnOcean devices
by Tim Hellhake (license)

II onlinexperiences.com is sharing your screen. Stop sharing Hide

The screenshot shows a Firefox Nightly browser window displaying the Mozilla IoT add-ons page. The URL is https://giori.mozilla-iot.org/settings/addons/discovered. Three add-ons are listed:

- Earthquake Monitor** (version 0.3.0) by Mozilla IoT. Status: Added.
- Email Sender** (version 0.3.0) by Mozilla IoT. Status: Not added.
- EnOcean** (version 0.1.7) by Tim Hellhake. Status: Not added.

A message at the bottom indicates that "onlinexperiences.com is sharing your screen." There are "Stop sharing" and "Hide" buttons. The browser's toolbar and menu bar are visible at the top.





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Q&A WITH SPEAKER

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NEW QUESTION

SCREEN SHARE

The screenshot shows a Firefox Nightly browser window with the URL <https://giori.mozilla-iot.org/settings/addons/discovered>. The page displays a list of discovered add-ons:

- Generic Sensors** 0.0.13 - Generic Sensors devices support by [Philippe Coval](#) ([license](#)) [+ Add](#)
- GitHub** 0.2.0 - Watch the issue count of your favourite GitHub repos by [Tim Hellhake](#) ([license](#)) [+ Add](#)
- Google Home Text to Speech** 1.1.1 - Uses your Google Home device to speak to you by [Tim Hellhake](#) ([license](#)) [Added](#)

At the bottom of the browser window, a message indicates that "onlinexperiences.com is sharing your screen." The browser toolbar includes icons for refresh, search, and various extensions.





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Firefox Nightly File Edit View History Bookmarks Tools Window Help

WebThing Mozilla IoT MicroBlock WebThing Add-ons - Web Thing WebThing WebThing WebThing WebThing WebThing WebThing Mozilla IoT Capabilities Supported

https://giori.mozilla-iot.org/settings/addons/discovered 110% Mon 11:15 AM

Added

Gotify 0.1.1
Send notifications through a self-hosted Gotify server.
Needs to be configured with server and app token.
by Mozilla IoT (license) + Add

GPIO 0.7.2
GPIO device support
by Mozilla IoT (license) + Add

HomeKit 0.9.0
HomeKit device support
by Mozilla IoT (license) + Add

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Mac OS X Dock icons





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Q&A WITH SPEAKER SPEAKER BIO

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NEW QUESTION

SCREEN SHARE

MicroBlocks Window

MicroBlocks

File Open

Mozilla Web of Things

- Ambulance.ubp
- HeartRate.ubp
- HelloLED.ubp
- PushButton.ubp
- TempAndLight.ubp

Output
Input
Pins
Control
Operators
Variables
Data
My Blocks

Libraries +

Basic Sensors
LED Display

display
clear display
plot x: 3 y: 3
unplot x: 3 y: 3
display character A

Examples
MicroBlocks
Desktop
Downloads
Computer

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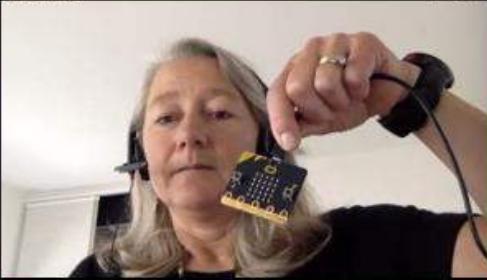
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Q&A WITH SPEAKER SPEAKER BIO

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NEW QUESTION

SCREEN SHARE

MicroBlocks Window HeartRate

Mon 11:18 AM

comment This example lets you simulate a heart rate using A and B buttons and displays the rate as a beating heart on the LED matrix

when started

```
wifi connect to Network Name password try 3 times
set thing name to Heart rate
set thing capability to MultiLineSensor
set number property bpm to title raid min 40 max 200 @Type LevelProperty read only
start WebThing server
```

forever

```
if button B and bpm < 200
    change bpm by 5
else if button A and bpm > 40
    change bpm by -5
    wait 150 millisecs
```

comment To test, click this script, then press buttons A and B to adjust the heart rate.

forever

```
say bpm
```

set user LED

display

wait Interval / 4 millisecs

set user LED

clear display

wait Interval / 2 millisecs

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Q&A WITH SPEAKER SPEAKER BIO

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NEW QUESTION

SCREEN SHARE

MicroBlocks Window HeartRate

File New Open Save

bpm Interval

local var 0
set var A to 0
change var by 1

comment This example lets you simulate a heart rate using A and B buttons and displays the rate as a beating heart on the LED matrix

when started
wifi connect to Network Name password try 3 times
set thing name to Heart rate
set thing capability to MultiLineSensor
set number property bpm to title raid min 40 max 200 @Type LevelProperty read only
start WebThing server
forever
if button B and bpm < 200
change bpm by 5
else if button A and bpm > 40
change bpm by -5
wait 150 millisecs

comment To test, click this script, then press buttons A and B to adjust the heart rate.

forever
say bpm

when started
set bpm to 60
forever
local interval 60000 / bpm
set user LED display
display
wait interval / 4 millisecs
set user LED display
display
wait interval / 4 millisecs
set user LED clear display
wait interval / 2 millisecs

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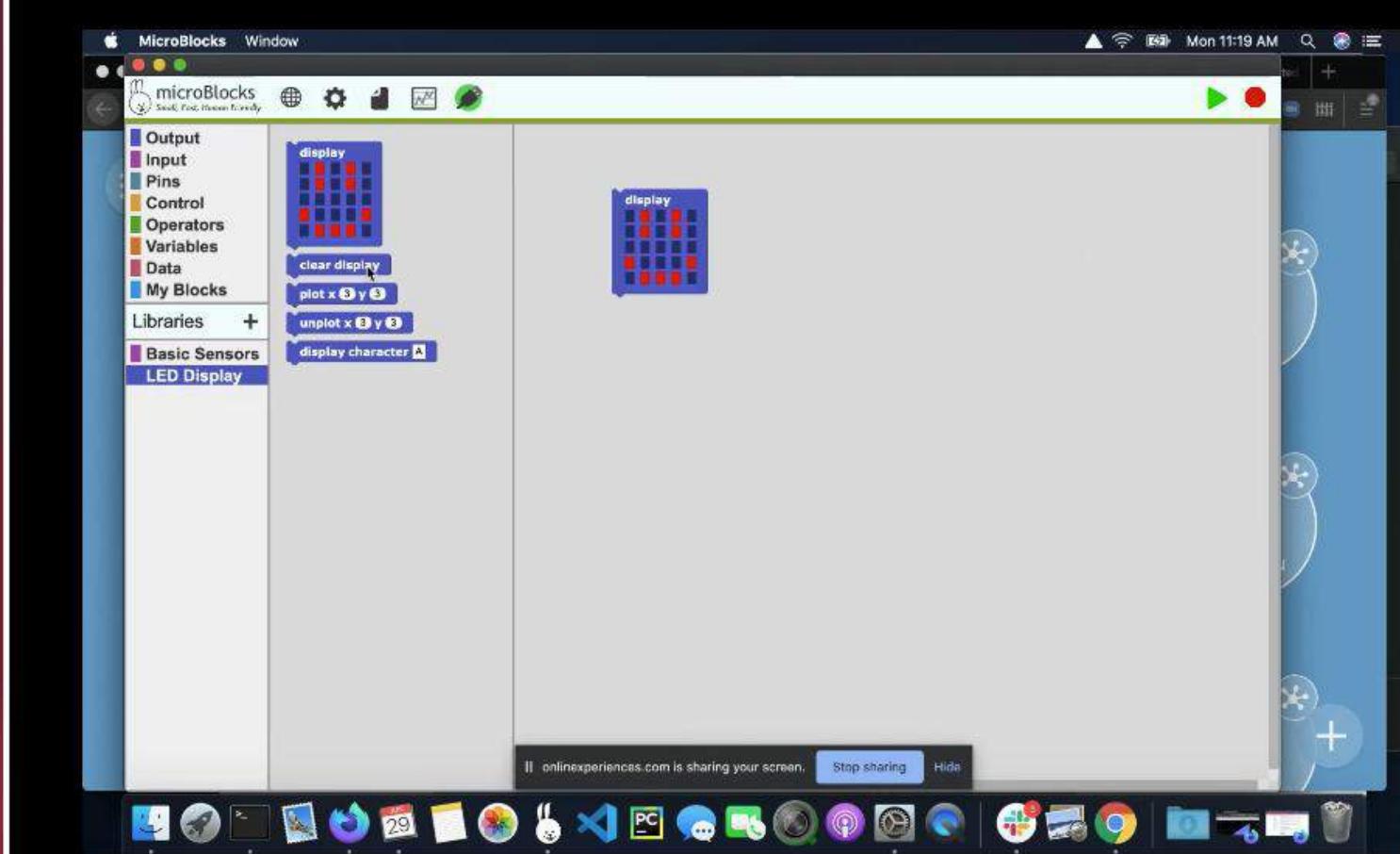


Q&A WITH SPEAKER SPEAKER BIO

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Q&A WITH SPEAKER

SPEAKER BIO

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NEW QUESTION

SCREEN SHARE

The screenshot shows a Slack interface with a dark theme. The sidebar on the left lists channels: #OSS+ELC, #1-helpdesk, #1-oss-elc-general-info, #1-random, #2-track-internet-of-things (which is currently active), #3-ntwk-jobpostings, #4-fun-pst, and #5-speaker-lounge. The main pane displays messages in the #2-track-internet-of-things channel. Michael posted, "I need to research this further, thank you for the help." Jason Talley responded, "@Kathy Girol I'm looking for the sensors used in your demo. I'm looking for inexpensive motion/temp/water sensors." Kathy Girol replied, "for those of you watching the DIY Smart Home, here's a link to the tutorial: <https://docs.google.com/document/d/1yR0UcdvnhzFIOGS-9enoeSilQqHAFIGZY7AkYmIMcXo/edit?usp=sharing>". jac299792458 asked, "Is your email actually [first.last@gmail.com?](mailto:first.last@gmail.com) (First page of the doc)" Paul Parkinson responded, "David Brown. Thank you for your comment about the challenges of key management. This is the ugly topic that no one wants to discuss. As we scale deployments this becomes a significantly large and more difficult task. The worse case solution is having to throw away devices to be replaced with new ones just to deal with certificate or the reworking of keys." A message from "MikeEr and W" indicates they are sharing their screen. The bottom of the screen shows a Mac OS X dock with various application icons.

