

# Tech for Good: Call for Code

Bonus: An Introduction to IBM Watson and Node-Red

Hans Boef  
Developer Advocate

Amsterdam, Netherlands

@hansb001

[hboef@nl.ibm.com](mailto:hboef@nl.ibm.com)



# Agenda

1.Purpose of the workshop

2.Call for Code

3.Node-RED

4.Watson

5.Recommendations and Links

6.Let's start

Before you start. Create a free account here:

[http://ibm.biz/cfc\\_codam](http://ibm.biz/cfc_codam)

# Purpose of the workshop

During this workshop you will learn what Call for Code is and where to start.

You will see all kinds of resources, like tutorials, datasets, technologies etc. you can use in your solution.

You will be working with two of these technologies after you got explained on how to use it. These technologies are IBM Watson and Node-RED.

With these you will build a simple app.





Global Challenge

## Participants:

Register for the challenge, and start building

## Sponsors:

Show your full support with a sponsorship

## COVID-19 Reference Materials:

We have the tools. You have the talent.

## More information:

Find more details at [ibm.biz/callforcode](http://ibm.biz/callforcode)

# **Build solutions that fight back.**

Join a **movement** of:

- **210,000** developers, data scientists & problem solvers
- **165+** nations
- **8,000+** applications built in the prior 2 years

Help seize & reduce the impacts of the COVID-19 pandemic by addressing:

- **Crisis Communication**
- **Remote Education**
- **Community Cooperation**

Help halt & reverse climate change by addressing:

- **Water sustainability**
- **Energy sustainability**
- **Disaster resiliency**

Have the chance to be **awarded**:

- **\$200,000 USD**
- Open Source support from **The Linux Foundation**
- Meetings with **mentors** & potential **investors**
- **Solution implementation** support through **Code and Response™**



Call for Code  
Founding Partner



Call for Code  
Creator



Call for Code  
Charitable Partner



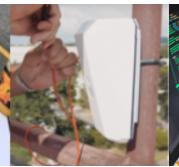
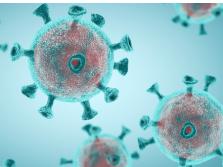
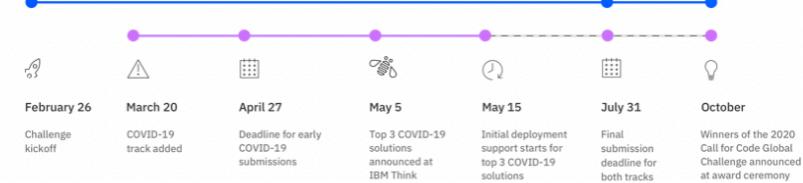
Call for Code  
Affiliate

• Climate change

• COVID-19

Enter your COVID-19 solutions by April 27 for a chance to be featured as a top solution during IBM Think. Note: We will continue to accept COVID-19 submissions after April 27 until the Challenge deadline of July 31.

## 2020 Call for Code Global Challenge Timeline



2019 winner: Prometeo protects firefighter health with IoT and AI.



# WILL YOU ANSWER THE CALL FOR CODE?

[developer.ibm.com/callforcode](https://developer.ibm.com/callforcode)

New Round Starting Feb 27 2020



Call for Code Founding Partner



# Where to find more information?

<http://callforcode.org>

<http://developer.ibm.com/callforcode>

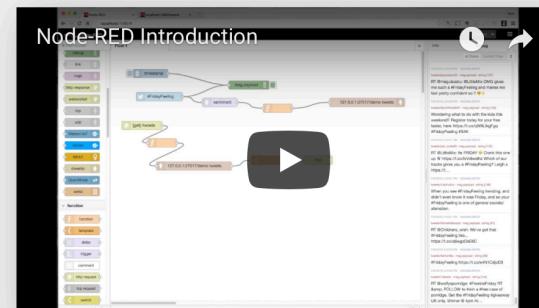
# Node-RED

Flow-based programming for the Internet of Things

Latest version: v0.18.4 (npm)

Node-RED is a programming tool for wiring together hardware devices, APIs and online services in new and interesting ways.

It provides a browser-based editor that makes it easy to wire together flows using the wide range of nodes in the palette that can be deployed to its runtime in a single-click.

[Features](#)[Get Started](#)[Community](#)

<https://nodered.org>

<https://www.youtube.com/watch?v=XaNNAVPGS4Q>

# Node-RED

Node-RED makes use of so called 'nodes'

Nodes are building blocks with own functionality, which you can configure.

These nodes can be wired together to build an application. The output of one node is input for another node. You can install additional nodes and add your own Node.js code.

The nodes you will use, are:

- Inject file node
- Watson Visual recognition node
- Debug node

# What is IBM Watson?

## **Watson cognitive API's**

- Assistant (conversation): Watson Assistant allows you to quickly build, test and deploy a bot or virtual agent across mobile devices, messaging platforms like Slack or even on a physical robot.
- Tone Analyzer: Tone Analyzer uses linguistic analysis to detect three types of tones in written text: emotions, social tendencies, and writing style. Use the Tone Analyzer service to understand emotional context of conversations and communications
- Visual recognition: recognize objects on images
- And 20 more

# Recommendations for a great app:

Start here:

Node-RED: <https://node-red.org>

Use <https://developer.ibm.com> as a starting point

See what Github has to offer

If you want to build something yourself please go to:

<https://developer.ibm.com/patterns/>

Call for code:

<https://callforcode.org>

<Https://developer.ibm.com/callforcode>

Just start and build your idea!

# Let's start

1. Create an account here:

[http://ibm.biz/cfc\\_codam](http://ibm.biz/cfc_codam)

2. for instructions, go to:

[http://ibm.biz/ws\\_codam](http://ibm.biz/ws_codam)

<https://github.com/hansb001/Node-RED-Visual-recognition-Intro>

↳ Go to [http://ibm.biz/cfc\\_codam](http://ibm.biz/cfc_codam) and build your app!



