Build smart IoT apps fast and easy! Talk to Your Car!

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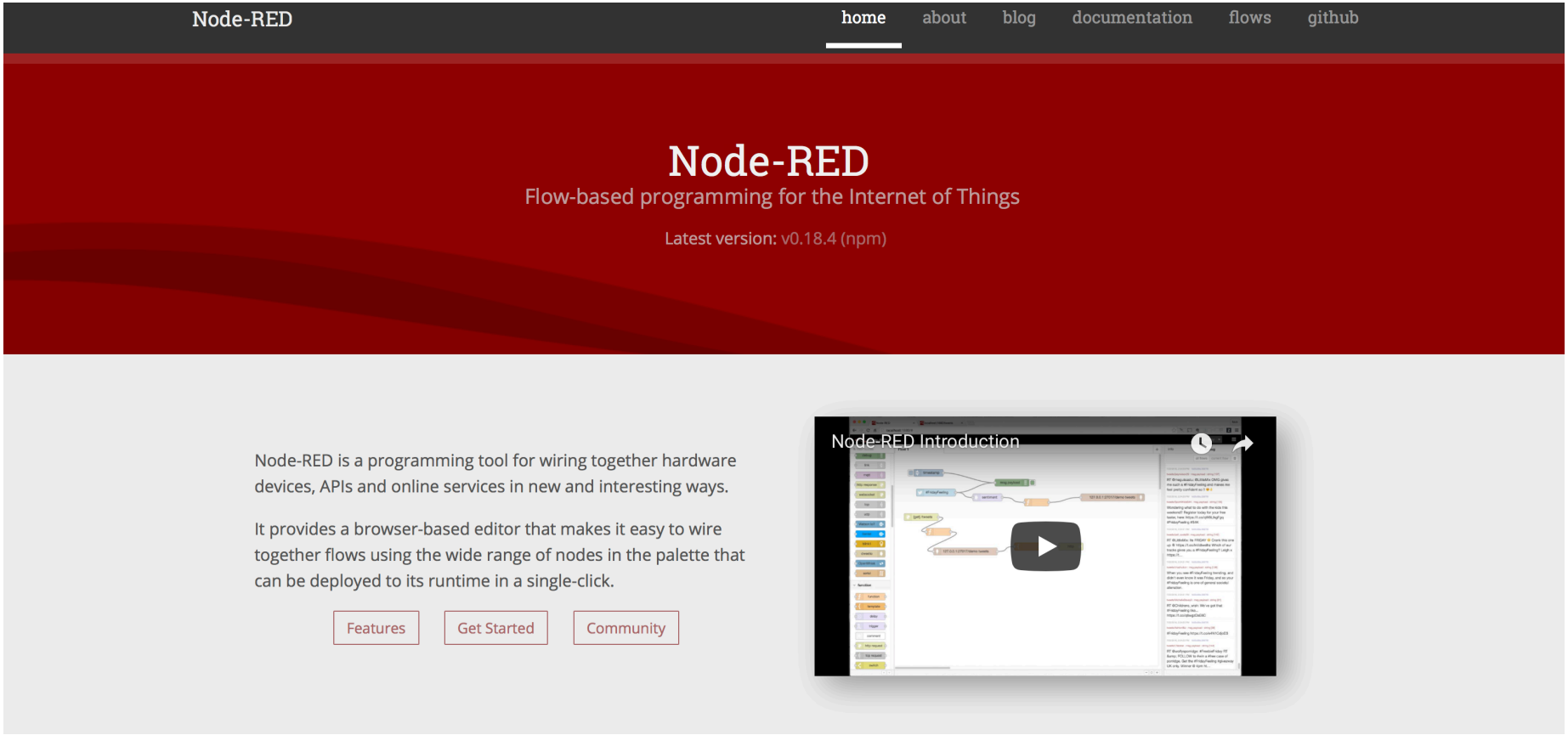
Purpose of the workshop

During this workshop you will quickly build a Node-RED app and use the Watson cognitive services for audio conversations. You'll use the Watson Assistant service and its Car Dashboard Conversation workspace as a starting point to building your conversation app. You can create or import your own conversation workspace, but using this provided one will get you started quickly.

This app records your speech, sends it to the Watson services to process the request. It can handle requests for the weather, or you can send commands and receive responses through a conversation to turn on the lights or play music. The possibilities are endless. Show us what you'll build. ☺

Agenda

1. Purpose of the workshop
2. Node-RED
3. Watson
4. Recommendations and Links



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:

- Function nodes
- Watson nodes (Assistant, Speech to text, Text to Speech and Tone Analyzer)
- 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
- Speech to Text: Easily convert audio and voice into written text for quick understanding of content.
- Text to Speech: Convert written text into natural-sounding audio in a variety of languages and voices.

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 the coffee maker yourself go to https://developer.ibm.com/patterns/

Just start and build your idea!

↳ Go to **ibm.biz/BdZf65** and build your app!