IoT Workshop

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What is IoT

Preparations

- Install Arduino IDE
- Install the "ESP8266 core" for Arduino, follow the guide on https://github.com/esp8266/Arduino#installing-with-boards-manager.
- Install PubSubClient library with Library manager from within the Arduino IDE.

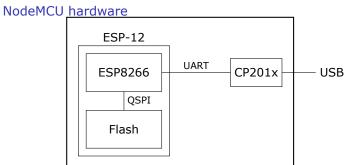
What is an IoT Device?

- Constrained in (one or more of):
 - Memory
 - CPU
 - Network bandwidth and/or latency
 - Storage
- Has connectivity

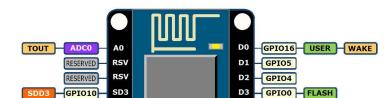
IoT Devices - Example chips

Protocol	Chip	Specs	
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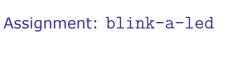
NodeMCU



NodeMCU hardware

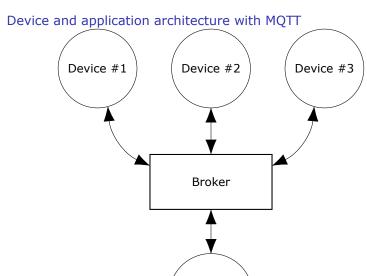


NodeMCU



Lecture: MQTT MQTT

- Message Queuing Telemetry Transport
- ▶ Wikipedia: MQTT



Assignment: mqtt-with-button

Content

https://github.com/trygvis/iot-workshop-ndc-2018