

nodeGame.org

Stefano Balietti

MZES and Heidelberg

nodeGame:
Preparing Environment

@balietti@nodegameorgstefanobalietti.com

# nodeGame: Online Real-Time Synchronous Experiments



- Powerful API to customize experiments
- Access to low-level details
- Integrated JS database
- Fast and highly scalable
- Game Levels
- Modular design (games, widgets, window)
- Well-documented (and active Forum)
- Integration with Amazon Mechanical Turk
- Digital Ocean Cloud One Click Install

# Who Develops NodeGame?



Me! (shakty)



B. Vartok, L. Miserez, J. Dorrie, P. Kueng, Ewen Wang, and others. (thanks!)

### Why Is It Called NodeGame?

It comes from <u>Node.JS</u>, in which it is implemented, particularly suited for real-time interactive games.

## Why Node.JS?

Built on Chrome's V8 JavaScript engine, it uses an event-driven, non-blocking I/O model that makes it lightweight and efficient.

Node.js' package ecosystem, npm, is the largest ecosystem of open source libraries in the world.

### Install Required Packages

- 1. Git Latest <a href="https://git-scm.com">https://git-scm.com</a> (Windows users install and use Git Bash)
- 2. Node.JS LTS <a href="https://nodejs.org/en">https://nodejs.org/en</a>

# Install Required Packages

- 1. Git Latest <a href="https://git-scm.com">https://git-scm.com</a> (Windows users install and use Git Bash)
- 2. Node.JS LTS <a href="https://nodejs.org/en">https://nodejs.org/en</a>

Note! If prompted, do not install extra "necessary" software.

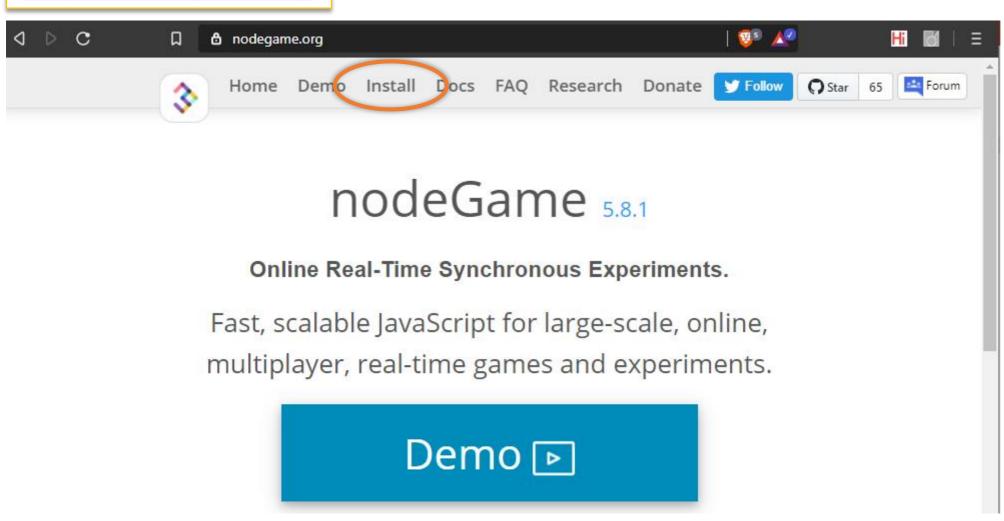
### Install Required Packages

- 1. **Git** Latest <a href="https://git-scm.com">https://git-scm.com</a> (Windows users install and use Git Bash)
- 2. Node.JS LTS https://nodejs.org/en

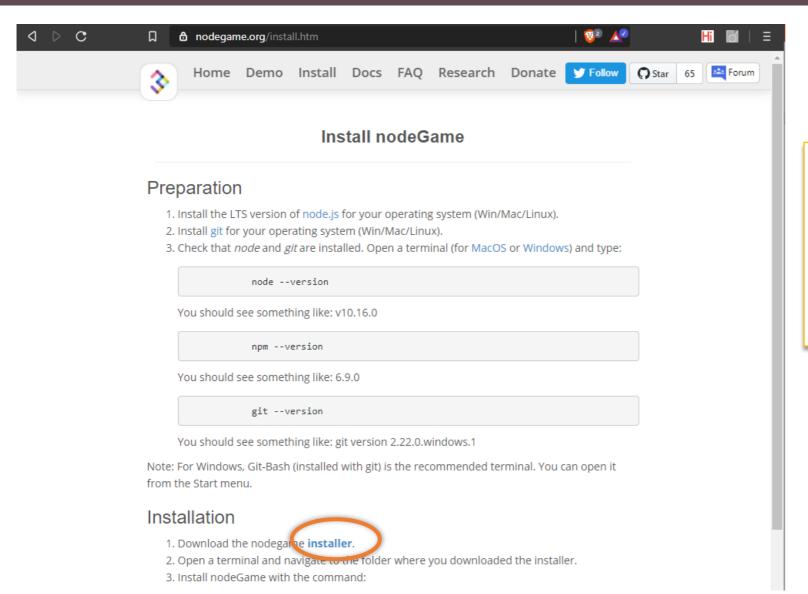
- 3. Text Editor with syntax highlighting associated with .js files
  - Simple: Notepad++ (Windows), TextMate, TextWrangler (Mac), Geany (both)
  - · Advanced: **Atom**, Sublime, Emacs, Vim

#### Install nodeGame

https://nodegame.org



#### Install nodeGame



- Save the installer inside the folder where you want to install nodeGame
- Now it is time to learn how to use a Terminal.

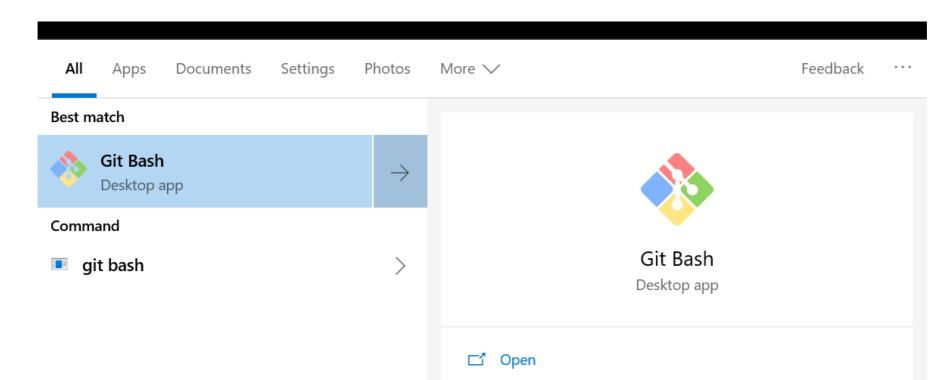
#### The Terminal

The terminal is a window in which you can type in commands that are interpreted and executed by your machine.

- Windows: Git Bash

Check the slide deck about "Using the Terminal"

- Mac / Linux: Terminal



# Installing and Launching nodeGame

# Installing NodeGame



Go the directory where you have downloaded the nodegame installer Check that Node.JS is correctly installed (version > 10)

```
balistef@mzes072 MINGW64 /tmp
$ node --version
v10.16.0
```

Install nodeGame

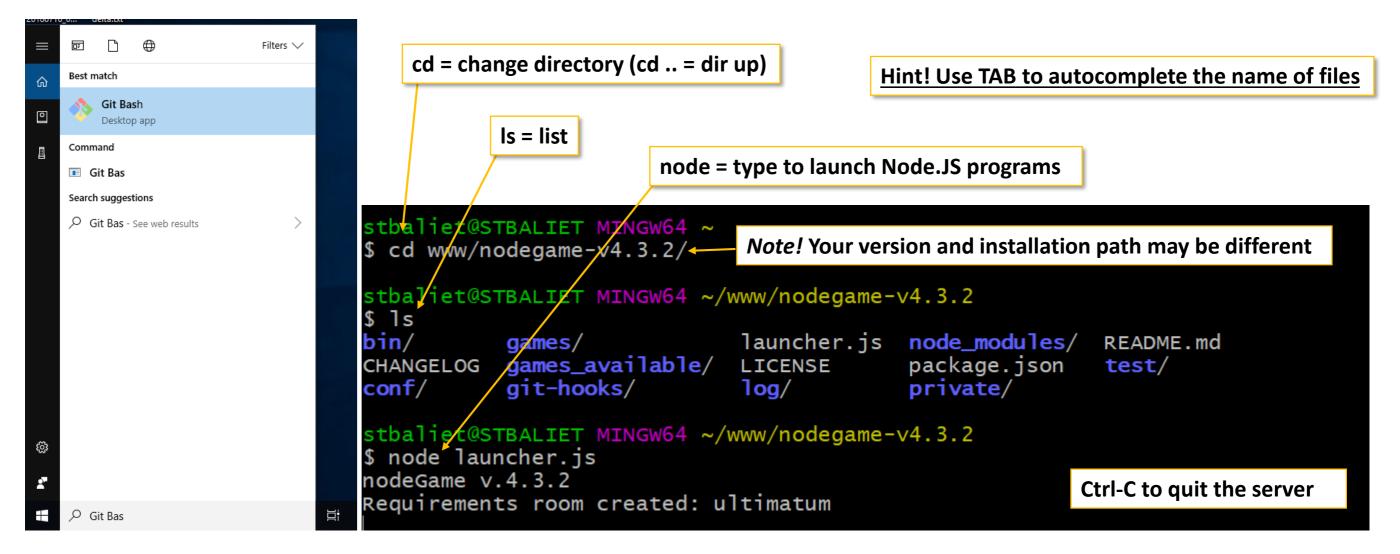
@dev is important to install the latest features that will use in this class

```
balistef@mzes072 MINGW64 /tmp
$ node nodegame-installer.js @dev
```

# Launching nodeGame



Go to the directory where you installed nodeGame and launch it



#### The localhost Address

After you launched nodeGame with command: node launcher.js
 open your browser at the address:

http://localhost:8080

**ADDRESS** 

YOUR OWN COMPUTER (INSTEAD OF THE INTERNET)

**PORT** 

A INTERNAL ADDRESS
WITHIN YOUR COMPUTER
(THINK IT AS THE DOOR BELL
IN A LARGE BUILDING)