

# Documentation Page (MUST READ!)

https://algebragame.github.io/GamePlatform/

#### TWO Different Platforms

- https://gamebot.algebragame.app
  - Submitted games can be accessed by texting Nemobot "[project name] [username]"
  - You don't need to be granted special access and you can start developing right away
  - Decent games will be promoted to the list of student projects
- http://game.algebragamification.com/bot
  - Submitted games can be accessed from the Nemobot menu (Games -> Student Projects)
  - Newly created accounts will need to be granted access before accessing the platform
  - Good games will be promoted to be official games (Games -> Official Games)

**Note to PU student**: To avoid cluttering the "Student Projects" menu, please use the first platform (<a href="https://gamebot.algebragame.app">https://gamebot.algebragame.app</a>) to develop your games.

## Sample Project

The source code of the "Fish-Flavored Lollipops" game can be found here.

The game is one of the official games, and it's written in less than 80 lines of code.

## Using `module.exports`

A script must export the following fields using the <u>`module.exports`</u> syntax:

- `filename` (string)
- `title` (string)
- introduction`(string / array of strings)
- `start` (function)
- `state` (function)

These fields are explained in details in the documentation.

```
1 module.exports = {
       filename: 'lollipops',
       title: 'Fish-Flavored Lollipops',
       introduction: [
           'Fish-Flavored Lollipops is a variant of Nim, an ancient math puzzle.',
           'When the game starts, I will show you 12 lollipops, where the last one of
   them is fish-flavored. It tastes so disgusting that nobody wants to eat it.',
           'The lollipops will be placed in one line, and you and I will take turns
   to take lollipops from the row. You can\'t take more than 3 lollipops at a time,
   and you can\'t skip your turn. Whoever takes the last lollipop (the fish-flavored
  one) lose the game.'
      start: start,
      state: state
12 };
```

### `start` and `state`

`start` and `state` are two functions that you have to define in your script and export to Nemobot.

- `start` should take three parameters:
  - `say`: a predefined function that you can use to send something to the user. You can send text, images and video/audio files. Please check the documentation for details.
  - `sendButton`: a predefined function that you can use to send multiple buttons to the user
  - `userID`: a string containing the ID of the user
- `state` should take four parameters:
  - `payload`: a string that's used to define the state
  - `say`, `sendButton` and `userID`: same as above

# Let's Go Through the Sample Code

```
• • •
 4 const lollipopStr = (num) => {
       return (new Array(num)).fill('@').join('');
 6 };
 8 const ranInt = (min, max) => {
       min = Math.ceil(min);
       max = Math.floor(max);
       return Math.floor(Math.random() * (max - min)) + min;
12 };
```

```
• • •
 2 const start = (say, sendButton) => {
      const str = lollipopStr(12);
     say(str).then(() => {
           sendButton('would you like to pick first?', [{title: 'Yes', payload:
   '12-1'}, {title: 'No', payload: '12-0'}]);
     });
10 };
```

Note: When the user press on a button, Nemobot will call the `state` function and pass in the corresponding payload as a parameter.

E.g., When the "Yes" button is pressed, Nemobot will call the `state` function and pass in the payload `12-1`.

```
1 // Define the `state` function
 2 const state = (payload, say, sendButton) => {
      const ary = payload.split('-');
      // The first number is the remaining number of lollipops
      const currentNum = parseInt(ary[0]);
      const playerTurn = parseInt(ary[1]);
10
11 }
```