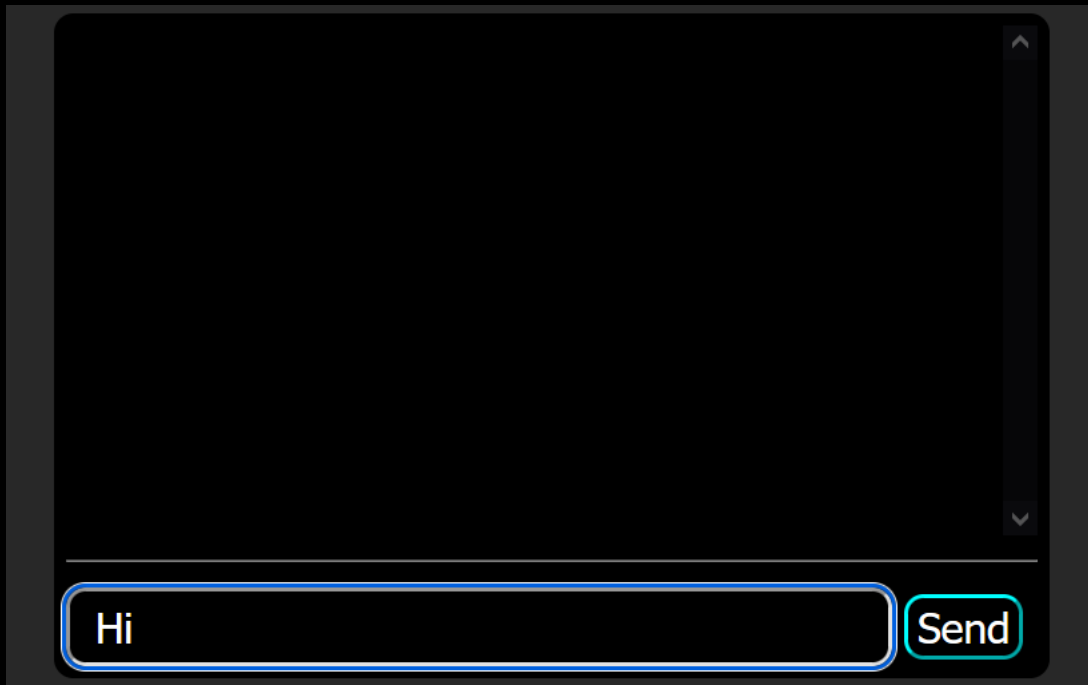


Topalian JavaScript Robot AI

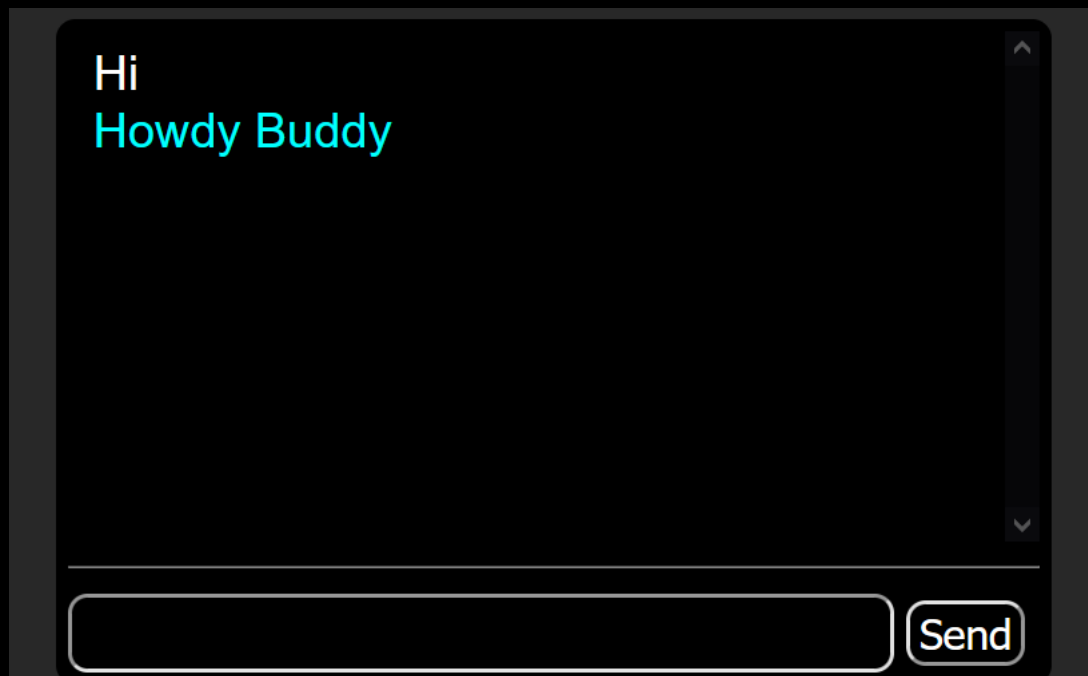
by
Christopher Andrew Topalian

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Dedicated to God the Father



A chat interface mockup. It features a dark gray background with a lighter gray border. Inside, there's a large dark gray area for messages. At the bottom, there's a white text input field with the text "Hi" and a green "Send" button. A vertical scrollbar is on the right side of the message area.



A chat interface mockup, similar to the one above but with two messages. The first message is "Hi" in black text, and the second is "Howdy Buddy" in green text. The input field at the bottom is empty, and the "Send" button is still present. The scrollbar is also visible.

Hi
Howdy Buddy

How are you? Send

Hi
Howdy Buddy
How are you?
Having fun and you?

Send

Hi
Howdy Buddy
How are you?
Having fun and you?

excellent

Send

Hi
Howdy Buddy
How are you?
Having fun and you?
excellent
Nice

Send

Hi
Howdy Buddy
How are you?
Having fun and you?
excellent
Nice

What is the weather like?

Send

Hi
Howdy Buddy
How are you?
Having fun and you?
excellent
Nice
What is the weather like?
It's a beautiful day.

Send

Hi
Howdy Buddy
How are you?
Having fun and you?
excellent
Nice
What is the weather like?
It's a beautiful day.

Take care

Send

Howdy Buddy
How are you?
Having fun and you?
excellent
Nice
What is the weather like?
It's a beautiful day.
Take care
Bye. Talk to you soon.

Send

Earth is a nice place

Send

Earth is a nice place
Do you have anymore information on it?

Send

Earth is a nice place
Do you have anymore information on it?

Well, it has land and it also has water

Send

Earth is a nice place
Do you have anymore information on it?
Well, it has land and it also has water
Interesting, please go on.

Send

Earth is a nice place
Do you have anymore information on it?
Well, it has land and it also has water
Interesting, please go on.

Earth is a fun place to visit

Send

Earth is a nice place
Do you have anymore information on it?
Well, it has land and it also has water
Interesting, please go on.
Earth is a fun place to visit
That's interesting.

Send

200+200

Send

200+200
400

Send

$$(16*4) + (400/16) * 750$$

Send

$$(16*4) + (400/16) * 750$$
$$18814$$

Send

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**<!-- <https://github.com/ChristopherTopalian> --
>**

**<!--
[https://github.com/ChristopherAndrewTopalia
n](https://github.com/ChristopherAndrewTopalian) -->**

<!-- Topalian_JavaScript_Robot_AI.html-->

<!-- Version 002 -->

<html>

<head>

```
<title> Topalian JavaScript Robot AI </title>
```

```
<link rel = 'stylesheet' href =  
'css/style001.css'>
```

```
<script src = 'js/utility.js'></script>
```

```
<script src = 'data/responses.js'></script>
```

```
<script src =  
'data/randomResponses.js'></script>
```

```
<script>
```

```
function calculate(input)  
{  
  try  
  {
```

```
    return eval(input);  
}  
catch(error)  
{  
    return null;  
}  
}
```

```
function createRobot()  
{  
    let context = null;  
  
    let mainDiv = ce('div');  
    mainDiv.id = 'mainDiv';  
    mainDiv.className = 'mainDiv';  
    ba(mainDiv);  
  
    //-//
```

```
let chatBox = ce('div');  
chatBox.id = 'chatBox';  
chatBox.innerHTML = '';  
chatBox.className = 'chatBox';  
mainDiv.append(chatBox);
```

```
//-//
```

```
let lineBreakUnderOutput = ce('hr');  
mainDiv.append(lineBreakUnderOutput);
```

```
//-//
```

```
let userInput = ce('input');  
userInput.id = 'userInput';  
userInput.className = 'userInput';  
userInput.style.type = 'text';
```



```
    userInput.style.placeholder = 'Type Words  
Here';  
    mainDiv.append(userInput);  
  
    //-//
```

```
    let sendButton = ce('button');  
    sendButton.innerHTML = 'Send';  
    sendButton.id = 'sendButton';  
    sendButton.className = 'sendButton';  
    mainDiv.append(sendButton);
```

```
    //-//
```

```
    // Enter button activates a click on send  
button  
    userInput.onkeydown = function(event)  
    {
```

```
if (event.key === 'Enter')  
{  
    // prevent default Enter key behavior  
    event.preventDefault();  
  
    // trigger a click on the send button  
    sendButton.click();  
  
    // color send button border aqua  
    ge('sendButton').style.borderColor =  
'rgb(0, 255, 255)';  
  
    // color send button font color aqua  
    ge('sendButton').style.color = 'rgb(0,  
255, 255)';  
  
    // after 275 milliseconds  
    setTimeout(function()
```

```
{  
    // default border color of send  
button    ge('sendButton').style.borderColor =  
    'rgb(255, 255, 255)';  
  
    // default font color of send button  
    ge('sendButton').style.color =  
    'rgb(255, 255, 255)';  
    }, 275);  
}  
};  
  
sendButton.onclick = function()  
{  
    // display what the person typed in  
chatBox
```

```
ge('chatBox').innerHTML += `<span style  
= 'color: rgb(255, 255, 255);'>$  
{ge('userInput').value}</span><br>`;
```

```
let userQuestion = userInput.value.trim();  
  
if (userQuestion)  
{  
    let responseObj =  
responses.find(function(obj)  
    {  
        return  
obj.keywords.some(function(keyword)  
        {  
            // lowercase and remove  
punctuation
```

```
    let cleanInput =  
userQuestion.toLowerCase().replace(/^[^\w\s]/g, "");
```

```
    let cleanKeyword =  
keyword.toLowerCase();
```

```
    // check for exact match of  
cleaned input and cleaned keyword
```

```
    return cleanInput ===  
cleanKeyword;  
    });  
});
```

```
if (responseObject)  
{
```

```
let randomIndex =  
Math.floor(Math.random() *  
responseObj.responses.length);  
  
ge('chatBox').innerHTML += `<span  
style = 'color: aqua;'>$  
{responseObj.responses[randomIndex]}</spa  
n><br>`;   
  
if  
(responseObj.keywords.indexOf('bye') !== -1)  
{  
    context = null;  
  
    ge('chatBox').scrollTop =  
ge('chatBox').scrollHeight;  
}  
else
```

```
{
    context = responseObj.keywords;

    ge('chatBox').scrollTop =
ge('chatBox').scrollHeight;
}
}
else
{
    let result = calculate(userQuestion);

    if (result !== null)
    {
        ge('chatBox').innerHTML +=
`<span style = 'color: aqua;'>$
{result}</span><br>`;
    }
}
```

```
        ge('chatBox').scrollTop =
ge('chatBox').scrollHeight;
    }
    else
    {
        let randomIndex =
Math.floor(Math.random() *
randomResponses.length);

        ge('chatBox').innerHTML +=
`<span style = 'color: aqua;'>$
{randomResponses[randomIndex]}</span><b
r>`;

        ge('chatBox').scrollTop =
ge('chatBox').scrollHeight;
    }
}
```



```
        userInput.value = "";
    }
};
}

</script>

</head>

<body onload = 'createRobot();'>

</body>

</html>
```

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// <https://github.com/ChristopherTopalian>

**//
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n](https://github.com/ChristopherAndrewTopalian)**

// utility.js

```
function ge(whichId)
{
    let result =
    document.getElementById(whichId);
```

```
    return result;  
}
```

```
function ce(whichType)  
{  
    let result =  
document.createElement(whichType);  
  
    return result;  
}
```

```
function ba(whichElement)  
{  
    let result =  
document.body.append(whichElement);  
  
    return result;  
}
```

```
/* Dedicated to God the Father */
```

```
/* All Rights Reserved Christopher Andrew  
Topalian Copyright 2000-2023 */
```

```
/* https://github.com/ChristopherTopalian */
```

```
/*  
https://github.com/ChristopherAndrewTopalia  
n */
```

```
/* style001.css */
```

```
body  
{  
    background-color: rgb(40, 40, 40);  
    color: rgb(255, 255, 255);  
}
```

.mainDiv

```
{  
    position: fixed;  
    top : 0px;  
    left : 0px;  
    width: 400px;  
    padding : 5px;  
    margin: 20px;  
    border-radius: 8px;  
    z-index: 10000;  
    background-color : rgb(0, 0, 0);  
    color: rgb(255, 255, 255);  
}
```

.userInput

```
{  
    width: 340px;
```

```
padding-left: 10px;  
padding-right: 10px;  
padding-top: 4px;  
padding-bottom: 4px;  
border-radius: 8px;  
background-color: rgb(0,0,0);  
color: rgb(255, 255, 255);  
}
```

```
.robotTextStyle  
{  
    color: rgb(255, 135, 255);  
}
```

```
.sendButton  
{  
    margin-left: 5px;  
    border-radius: 8px;
```

```
background-color: rgb(0, 0, 0);  
color: rgb(255, 255, 255);  
}
```

```
.sendButton:hover  
{  
    border-color: aqua;  
}
```

```
.sendButton:active  
{  
    color: rgb(0, 255, 255);  
}
```

```
.chatBox  
{  
    height: 200px;  
    padding-left: 10px;
```

```
padding-right: 10px;  
padding-top: 5px;  
padding-bottom: 5px;  
background-color: black;  
overflow-y: scroll;  
}
```


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// responses.js

// if keyword is found, use these responses

let responses =

**[
 {
 keywords: [**

`hi`,
`howdy`,
`hey`,
`holla`,
`good evening`,
`good morning`,
`greetings`,
`yo`,
],

responses: [
`Howdy Buddy`,
`Hi Friend`,
`Hi there`,
`Greetings Friend`,
`Good day`,
`Bonjour`
]

},

{

keywords: [

 `what is the weather like`,

 `what is the forecast`,

 `is it going to be sunny`,

],

responses: [

 `It's a beautiful day.`,

 `The weather is very nice.`,

 `It's sunny and warm.`

]

},

{

keywords: [

 `how are you`,

```
`what's up`,  
`what are you up to?`  
],  
responses: [  
    `I'm doing good, you?`,  
    `Having fun and you?`,  
    `I'm good, how about you?`  
]  
},  
  
{  
    keywords: [  
        `excellent`,  
        `very good`,  
        `doing good`  
    ],  
  
    responses: [  

```

```
`Nice`,  
`That's nice`,  
`Very good`,  
`Very Excellent`  
]  
,  
  
{  
  keywords:  
  [  
    `bye`,  
    `goodbye`,  
    `take care`  
  ],  
  responses:  
  [  
    `Bye. Talk to you soon.`,  
    `Goodbye`,
```

```
`Have fun`  
]  
,  
  
{  
  keywords:  
  [  
    `what are your interests`,  
    `what do you want to do as a career`,  
    `what is your current job goal`  
  ],  
  responses:  
  [  
    `Computer Science is fun.`,  
    `Programming is lots of fun.`,  
    `I like programming a lot.`  
  ]  
}
```

];

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**//
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// randomResponses.js

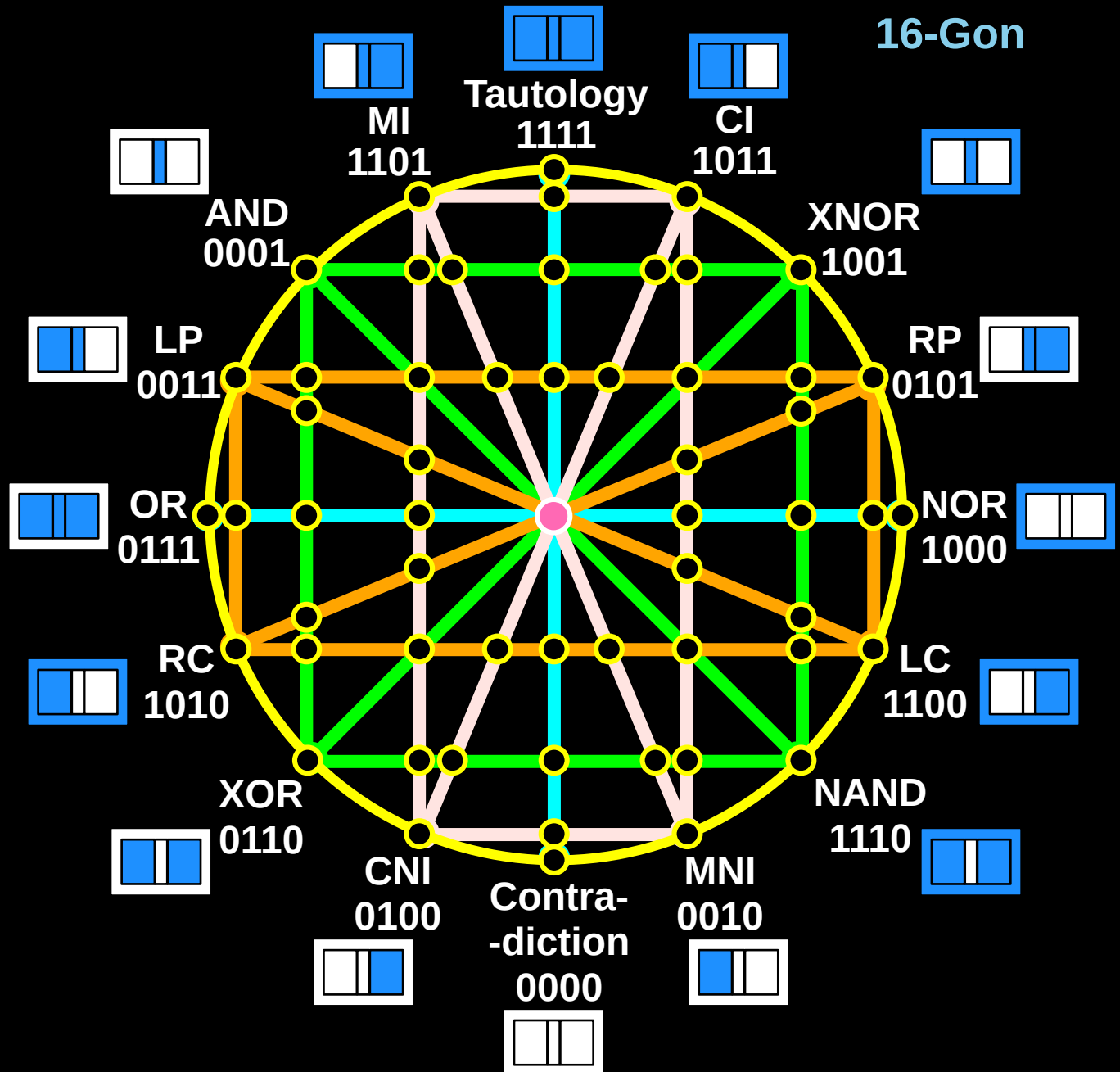
**// if no keywords are found, use these
responses**

**let randomResponses =
[
 `That's interesting.`,**

**`Would you tell me more?`,
`Hmm, tell me more about that.`,
`Would you elaborate?`,
`Interesting, please go on.`,
`What else can you tell me about it?`,
`Do you have anymore information on it?`,
`Say again?`,
`Fascinating! Tell me more.`,**

];

True Artificial Intelligence System



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GitHub.com/ChristopherAndrewTopalian

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Dedicated to God the Father

**This book is created by the
College of Scripting Music & Science.**

**Always remember, that each time you write a script
with a pencil and paper, it becomes imprinted so
deeply in memory that the material and methods are
learned extremely well.**

**When you Type the scripts, the same is true. The
more you type and write out the scripts by keyboard
or pencil and paper, the more you will learn
programming!**

**Write and Type every example that you find.
Keep all of your scripts organized.**

**Every script that you create increases your
programming abilities.**

**SEEING CODE, is one thing,
but WRITING CODE is another.**

Write it, Type it, Speak It, See It, Dream It.

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