**User Manual**

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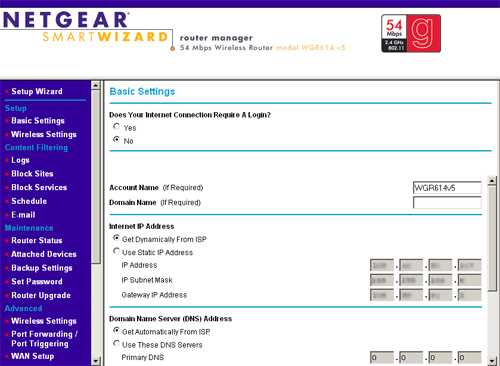
**Introduction**

The IP chat is peer-to-peer chatting software which allows user to communicate with each other directly through internet by knowing each other’s IP address and port number. In addition to basic chatting functionalities, the software also provides file transfer, chat history, and entertainment features.

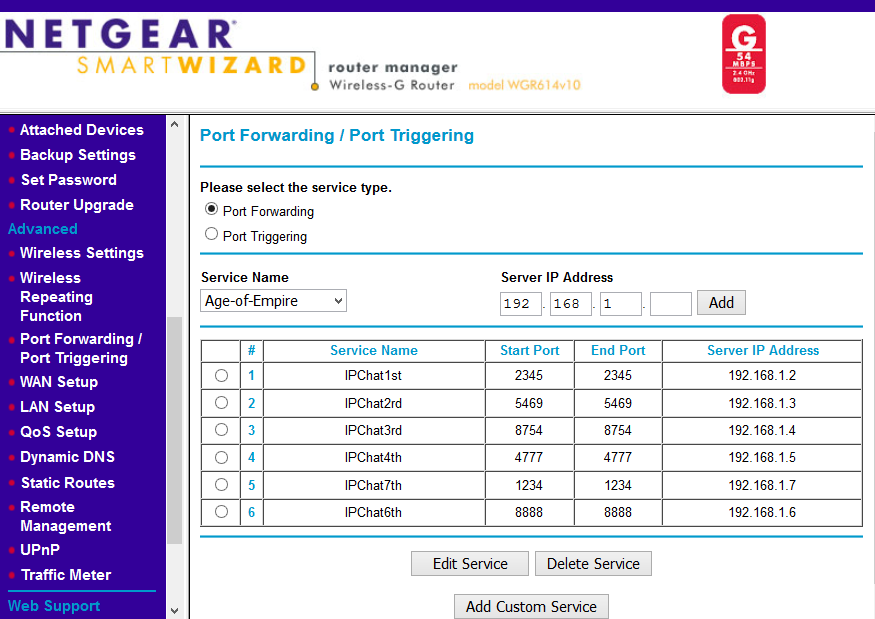
**Router Setup**

Before you can chat with each other, you need to make sure you have a valid internet connection or correct router setup if you are inside a local network. The demo below shows how to configure a Netgear router for the software to work properly, and your router should be similar to the demo.

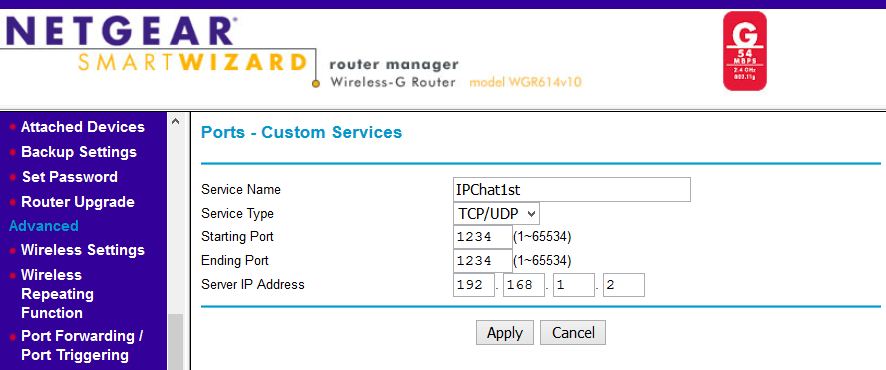
* Step 1. make sure your computer is connected to the router
* Step 2. open browser
* Step 3. type in <http://www.routerlogin.net/> and hit enter will open the configuration page
* Step 4. enter user name and password



* Step 5. click attached devices option on the left panel to open up the page where you can find your device and its local IP address. Note it down for later use
* Step 6. click port forwarding/port triggering option on the left panel to open up the page

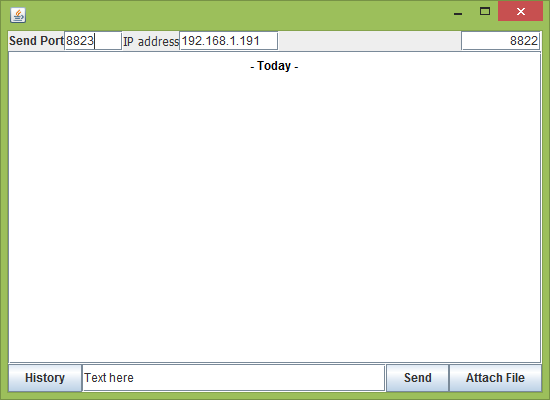


* Step 7. click add custom service to add new port forwarding config. Enter your port number and IP address and click apply.

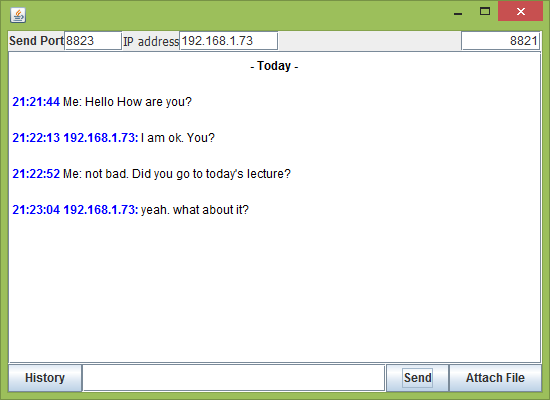


**Let’s Chat**

The chat window is the main window of the software. User can enter his listening port on the top right textbox. The IP address and port of the receiving side are at the top left of the window.

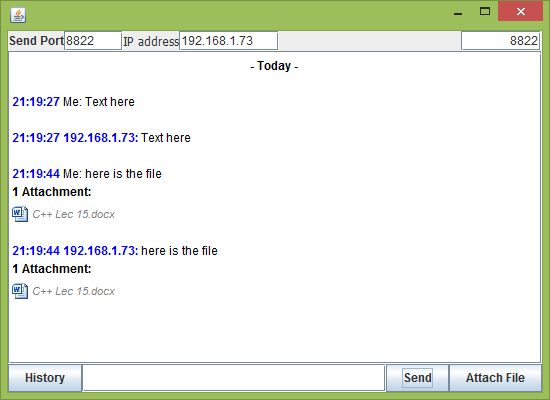


User can enter message in the textbox at the bottom and click **Send** button to send the message.



**Share Files**

The **Attachment** button allows user to send file(s). Once received file(s), user can click the file icons and the folder contains the file will pop open. The default path for the received files is the **Downloads** folder.



User can click **history** button to view calendar window where chat history is shown.

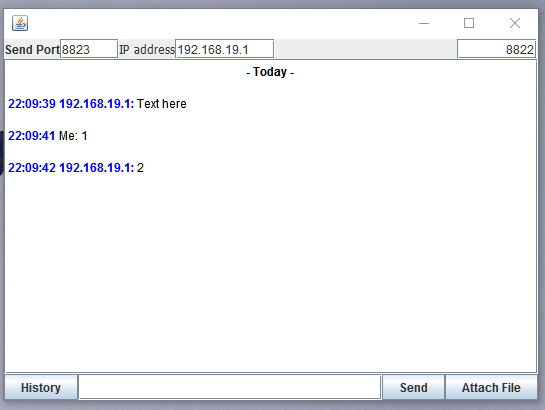
**View Your History**

**Hidden Game**

The secret game is a special type of Go game called Gomoku; you can understand how it works by reading the rules ( [**link**](http://www.opengames.com.ar/en/rules/Gomoku))

**Initialize the Game**

The game is initialized with a secret code which is the following:

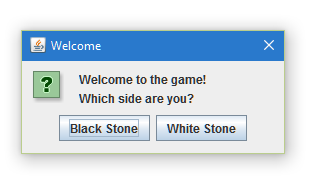


Notice how one side type one and the other side respond with two

-User 1 needs to input 1

-User 2 needs to input 2

This would automatically trigger a new window:

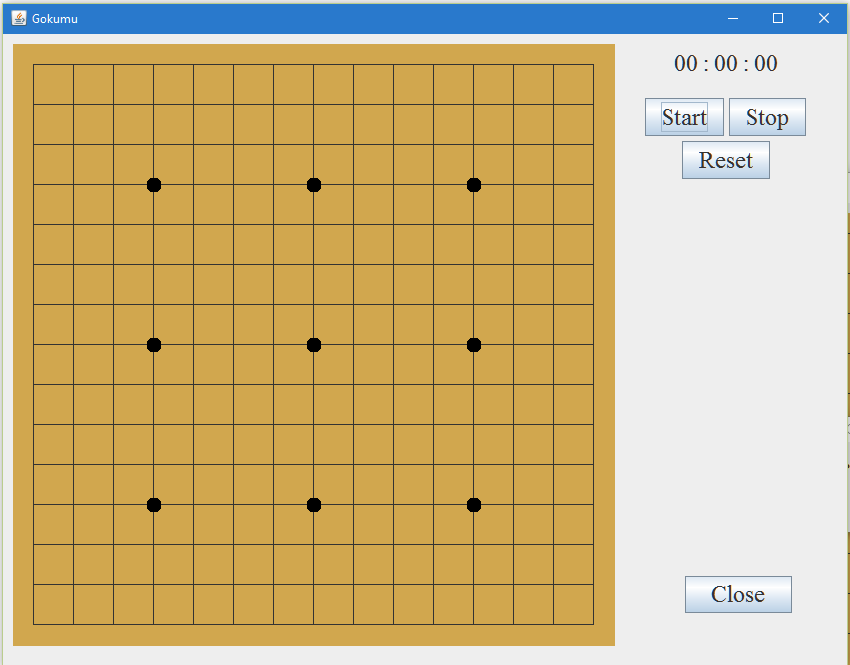


This is the welcome window

The user who type 1 should choose Black Stone and user who type 2 should choose White Stone. It will trigger the actual game window next.

**Playing the Game**

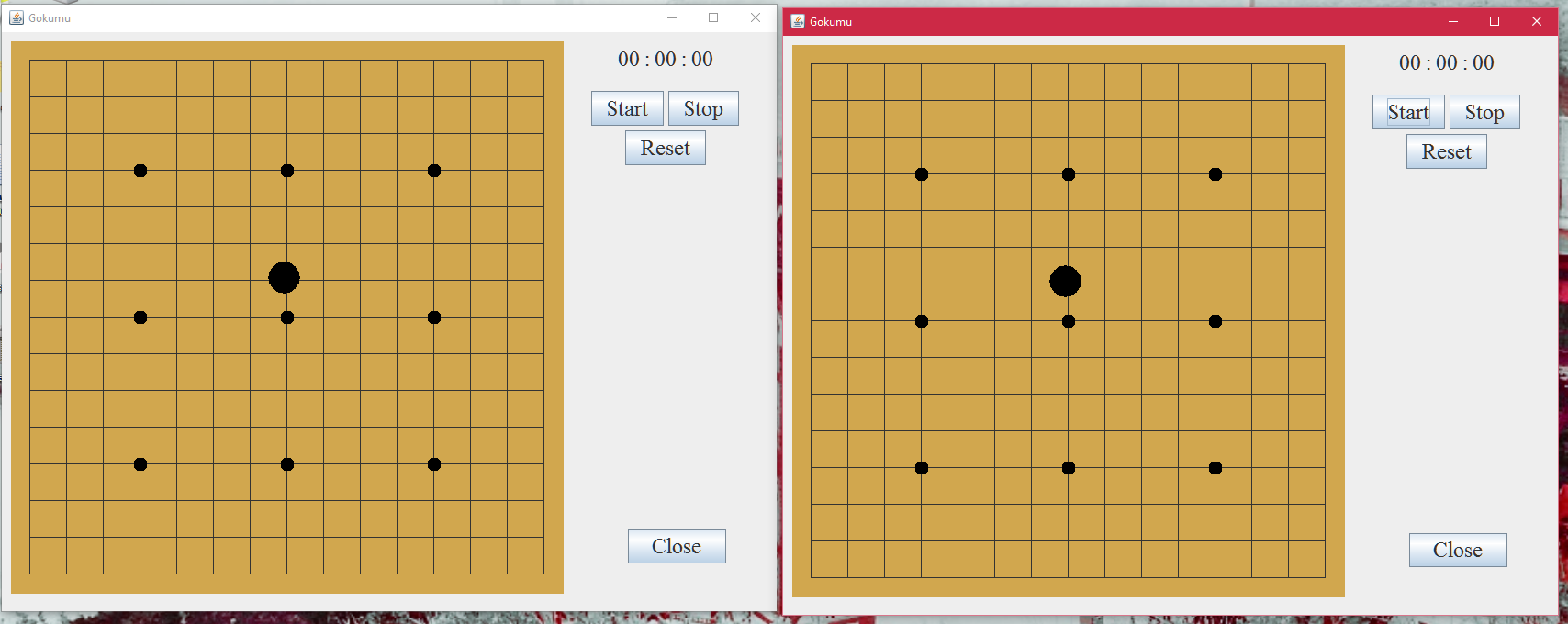
After user choose the side, following window would pop up:



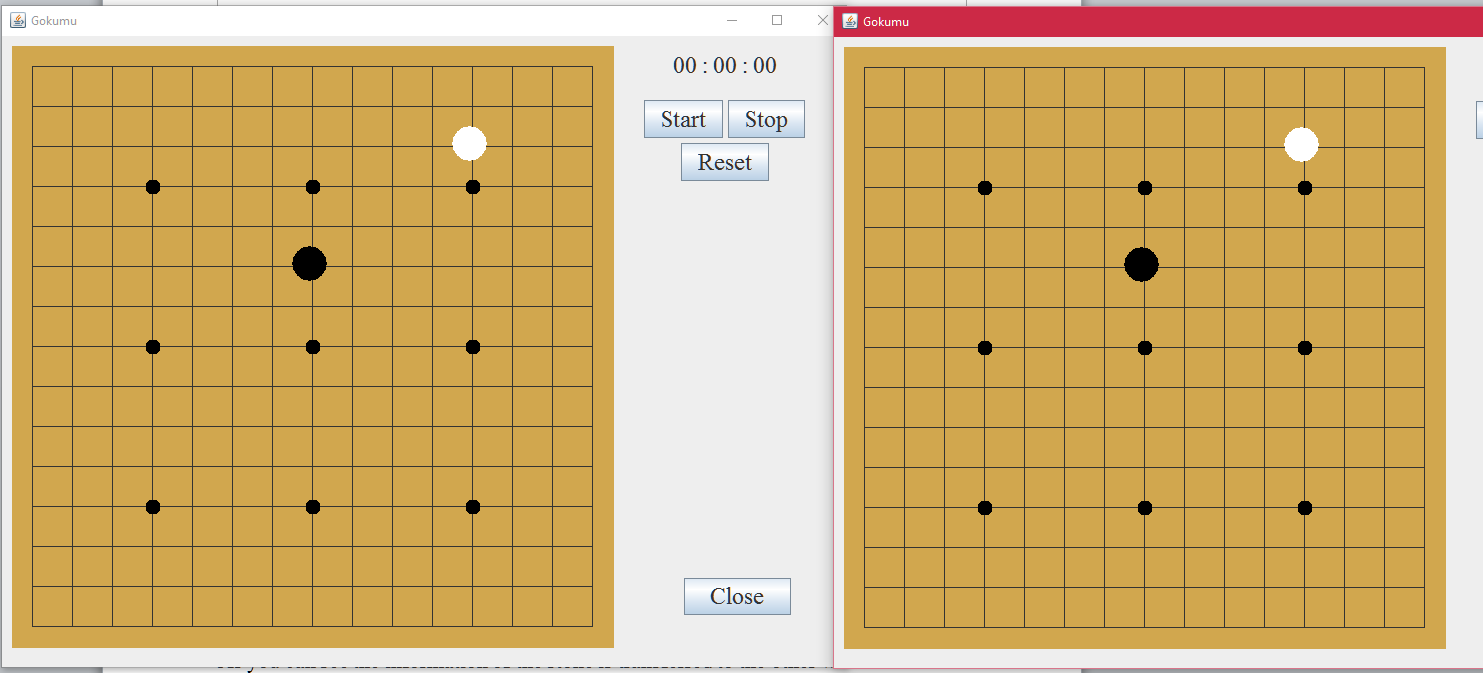
Main Game Window

There are several functions that the user could utilize. The first is Go board where the user could play the game (shown in the green box). The second is the timer which user could utilize to time the game (shown in the red box). The start button starts the timer, the stop button stops the timer, and restart button restart the timer. The last is the close button to close the window shown in the blue box.

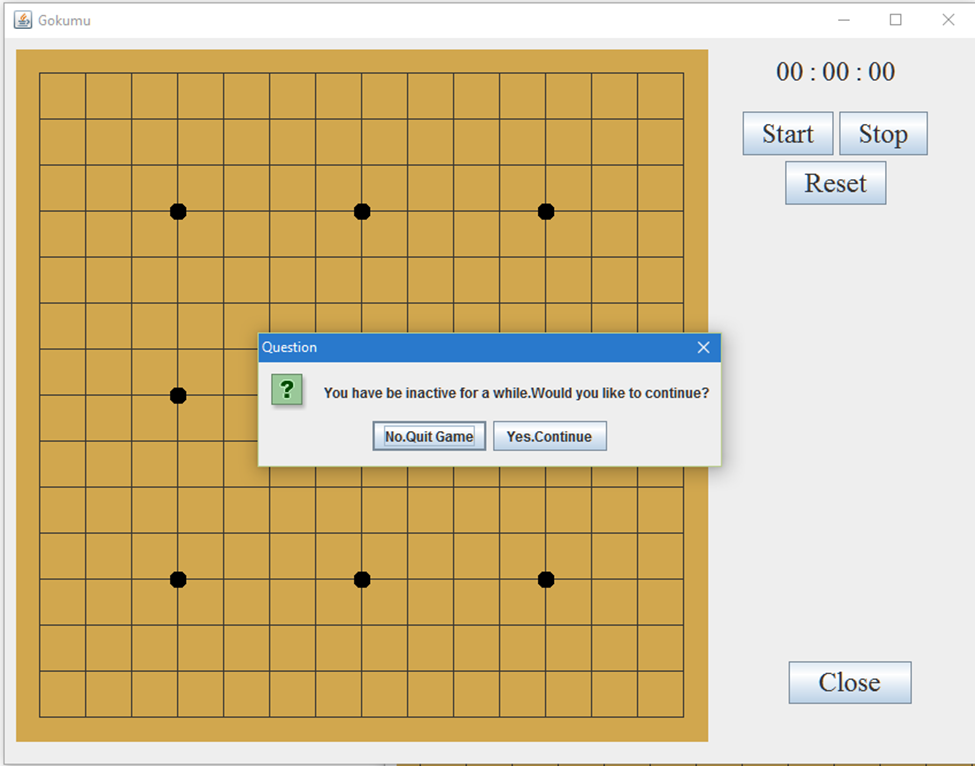
The user with the Black stone starts first:



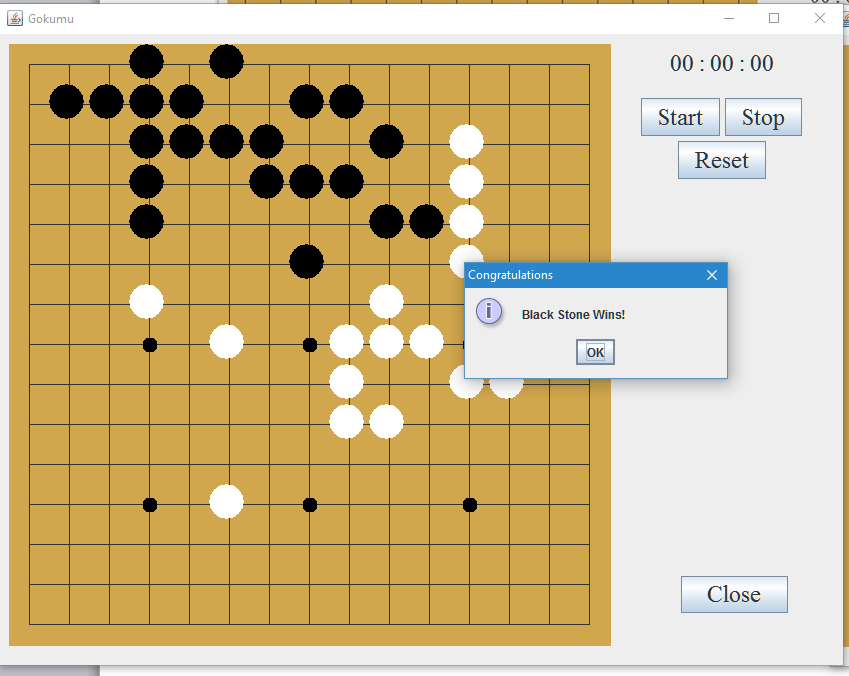
As you can see the information of the stone is transferred to the other window

Then the user with White stone continue:

As you can see the information of the stone is transferred to the other window

Occasionally, this pop would show up to tell you the game have been inactive for a while: You could choose to continue the game or quite the game.

**Winning the Game**



Winning window

Else you continue to play the game until you win the game according to the rule. The system would automatically pop out a window that tells you which side won. Once you press ok the Go board would clear the game and you can start a new game.

Enjoy the game!