In some countries, you can leave school at age 8 so you can play more Go.

For China and Korea, Go is so important that childen take Go lessons like you would take swimming lessons. Very talented players can leave school as young as 8 to learn Go full time, where they hope to become professional players by their mid teens. Only a handful are able to pass the pro test each year.

Beating Go with Artificial Intelligence was a HUGE deal

For a long time, the mind-boggling complexity of Go meant people thought computers couldn't beat it. Even the fastest computer would take millions of years to check every possible option before it could choose the best one. After Al beat chess in 1997, it took nearly 20 more years before a program called AlphaGo beat Lee Sedol, one of the world's best Go players. It could only do this by developing new ways of 'learning'. This was a critical stepping stone towards the Al that we see today. Many people consider this an achievement similar in scale to the moon landing.

What next?

Ideally, you should pick up a cheap Go set somewhere like Amazon or Temu. However, there are a lot of places you can play and learn right now, for free!



BadukPop is a fantastic app that helps to teach the rules and get you playing games. It was developed to help western players get into Go, and is great for getting started.



along with the 'skill tree' - a tool filled with puzzles to

GoMagic.org has a ton of great interactive courses,

teach different techniques. Has lots of free content,

along with paid courses.

There is a lot of free content on **YouTube**, for any stage of learning. Just search for 'Go board game' or sometimes 'Baduk' (its Korean

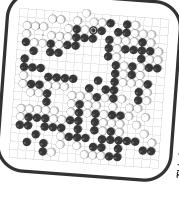


Online-go.com is the most popular place to play Go online in the west. It gives you a rank, and provides opponents. It also has lessons and other tools to help you learn!

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What is Go?

Go is a two player game where each player tries to surround parts of the board with their pieces. The winner will be the person who controls more of the board than the other player!

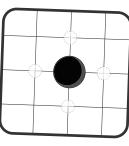


This is a game of go! A full sized game can seem a little scary, so beginners learn on a smaller board.

board.

It's (easy) to learn the rules and play with a friend, but it's also the hardest game in the world to master!

How do I play?



Play on the crosses. Don't let the enemy surround you!

Black always goes first. Take one of your pieces and place it where the lines of the board cross. You can play wherever lines cross, even the edge of the board.

Once you have played a piece, it can't be moved unless the other player captures it. You can play anywhere on the board, so long as the piece wouldn't be captured right away.

Capture? How?

If you surround another player's piece, you capture it! When you do, keep them in a pile next to the board - they count as bonus points at the end!

Did you know?

Go is the oldest game still played today.

We have evidence that Go is at least 2500 years old, but there are stories suggesting it may be up to 4000 years old. Its rules have barely changed in all that time!

There are around 60 million Go players.

Most Go players are in China, Korea and Japan, where the game is very important. However, there are Go players all over the world!

There are far more ways to play a game of Go than there are atoms in the Universe.

On a standard board, the grid is 19×19 . Because you can play anywhere on that grid (so long as you aren't captured immediately), there are around 10^{360} different possible variations of a Go game. By comparison, the universe 'only' has around 10^{82} atoms. You can never 'solve' Go - you can always get better. Each game you play is like exploring a different universe!

Atoms in the universe:

Possible ways to play Go:

Congratulations!

rank. It's good to have a first rank in Go! You are target while you learn. you can improve your You have earned the now a 30 kyu player! If you keep playing,

Look familiar?

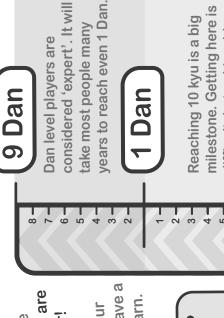
Arts grading (especially in Japan). You can be a hundreds of years ago. Later, it was also used Dan level Black belt in for nearly all Martial Karate, for example. This system was invented for Go

places where you can now, you can get a get your rank. For rank by playing at: There are lots of

19 — 18

20 – 21-22 – 23 – 24 – 25 – 26 –

online-go.com

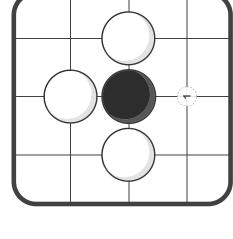


with effort and persistence. milestone. Getting here is Reaching 10 kyu is a big difficult, but achievable

means 'Class' in Japanese. work your way up to 1 kyu. Kyu' is what we call the standard ranks in Go. It fou start at 30 kyu and

There are lots of learning materials to help you through these ranks.

> HERE YOU ARE



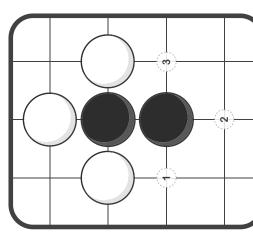
only has one free space

next to it.

nearly surrounded! It

This black piece is

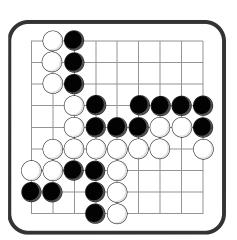
piece. It is captured! If you let white play surround the black in that space, they

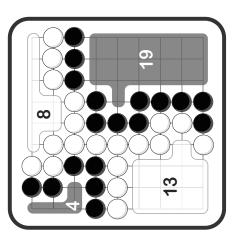


another friendly piece to has three empty spaces it. Now the black group captured by 'attaching' around it and is safer. Black can try to save the piece before it is

What do I do?

In Go, you are trying to surround areas of the board. If there are no enemy pieces in that area at the end of the in that area at the end of the game, you count it as your game, you count it as your territory. You can make as 'territory'. You can territory is added to your total points.





When does the game end?

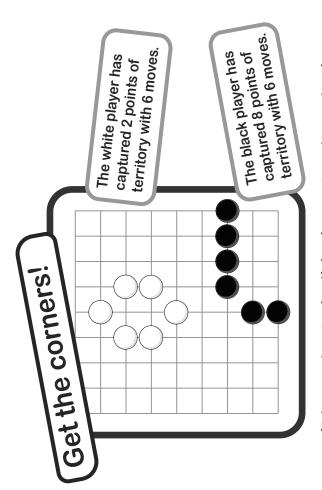
If someone quits ('resigns'), they lose. Or, if you can't see any good move, simply 'pass'. If both players pass, the game is finished and they follow these steps to decide the winner:

Step 1

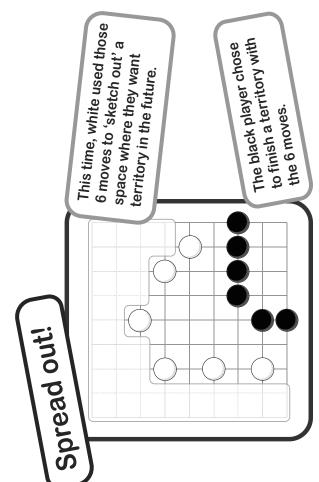
This is an example of a finished game. Each player has surrounded areas of the board. These are called 'territories'.

When you count up the empty spaces in each territory, Black has a tiny bit more!





It is easier to build a large territory in the corner. It is also much easier to defend.



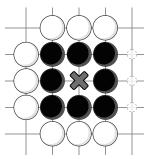
Sketch out where you want territory first.
Complete it later. It won't be difficult for white to finish this large territory. Black will struggle to win the rest of this game!

Tips and Tricks

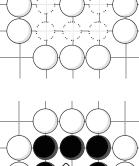
spent thousands of years figuring them out! Here are some basic There are lots of ways to win a game of Go, and players have concepts that will help.

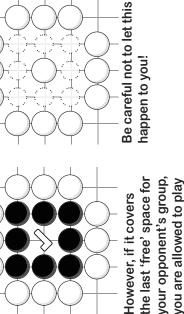
'Eves'

surrounding it, then playing in the middle. A space inside a group is called an 'eye'. **Y**ou can capture a group with an eye by



your piece would be play in a spot where captured right away. Normally, you can't

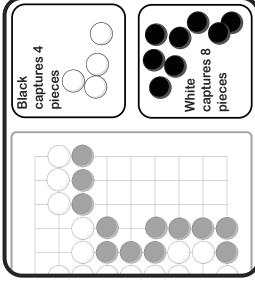




If you make a group with two separate 'eyes', it is

IMMORTAL

to play in either spot. This means they can't take away that group's as your opponent is not allowed last 'free' space. Use this as last resort when defending!



have captured. These pieces that players Now we count the are bonus points!

Step 2

8 points

4 points

all together! Add it



points to make up for

White gets extra

Step 3

going second. You

decide how many

before starting a

game. 5 is a good

amount.

Total 27 Points

Territory: 21 Captures: 8

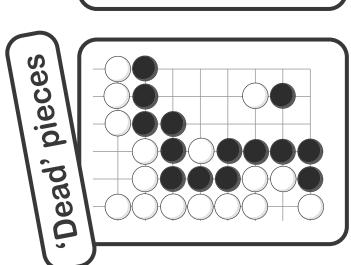
Second' Bonus: 5

Total 34 Points

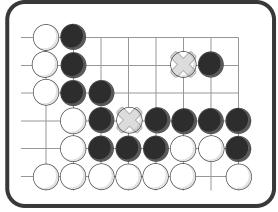
going second.

5 Points for

White WINS

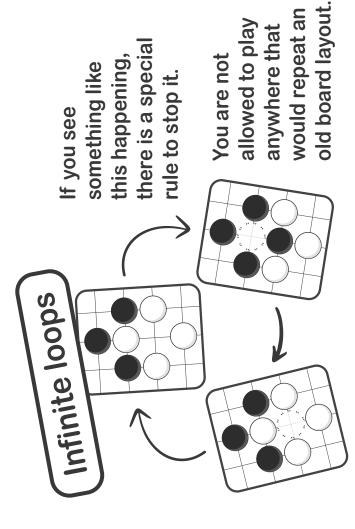


At the end of the game there may still be enemy pieces in your territory with no hope of survival. These pieces are 'dead'. It feels like a waste of time to capture them.

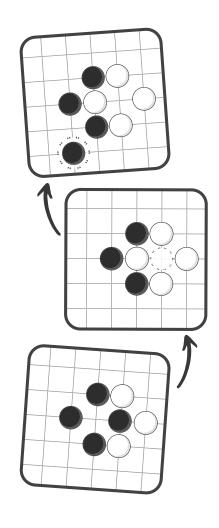


If both players agree that the pieces would eventually be captured, you can simply remove them at the end of the game. They are counted as 'captured' during scoring.

- If players don't agree that pieces are 'dead', you should continue playing. Prove that they
 - can be saved!



Instead, you must first play somewhere else. Below is an example. After this, the fight may continue! If white doesn't save their piece, black is now allowed to take it.



This is called the 'Ko' rule.