

Catchup

Invented by Nick Bentley in 2010

Catchup is a simple abstract game with a devilish dynamic. The goal is to have the largest group of stones on the board when the board is full of stones, but as you get closer to winning, your opponent gets more powerful. Whereas most stone-placement games are about position, Catchup is about timing, position, and the interplay between them.

Definitions:

1. Group – a set of connected, like-colored stones on the board. A single stone is also considered a group.
2. Score - your score is the number of stones contained in your largest group. At the beginning of the game, both players' scores are set to 1

Rules:

1. One player owns the white stones and the other owns the black. White begins by placing 1 stone on any empty space.
2. From then on, starting with black, players take turns. On your turn, you may place 1 or 2 stones, or up to 3 if your opponent's score increased on their last turn and is, at the beginning of your turn, greater than or equal to your score.
3. After taking your turn, if your score has changed, move your pawn to the corresponding spot on the scoring track.
4. The game ends when the board is full. The player with the largest group wins. If the players' largest groups are the same size, compare their second-largest groups, and so on, until you come to a pair which aren't the same size. Whoever owns the larger of the two wins.

[from <https://docs.littlegolem.net/games/catchup/>]

This game has seen many versions up to the current one. Check some versions at [r.g.c backup](#) (search for **Ketchup**, its older name).

But besides that, there are also some predecessors to consider about its history.

It seems to me that there is a kind of path connecting Catchup to an older Nick's game, **Product**, where there is also the idea of gaining with the biggest group, but in this case, but players drop two stones of either color.

The next draft games post of r.g.a could point to where his design was evolving along this path:

<https://groups.google.com/g/rec.games.abstract/c/fFyAiuipn6Q>

<https://rec.games.abstract.narkive.com/NZaFY2c1/plur#>

Nick Bentley, Apr 15, 2009, 8:14:43PM

Plur: Another untested idea. Plur is short for Plurality. Rules:

For two players, played with black and white stones on a hexagonal tiling. I don't know what the optimal board shape/size will be yet.

Player 1 owns the black stones and player 2 owns the white.

1. Board begins empty.
2. Starting with black, players take turns putting a stone onto any empty space.
3. Game ends when board is full.
4. Whichever player owns the majority of the three largest connected groups on the board wins. If it's impossible to clearly identify the three largest groups because two or more groups are tied for "third largest group", then the player who has the majority of the 5 largest groups wins, and so on. If you go all the way down the line without a tie-break, the game is a draw.

It may need a pie rule. I don't know.

Nick proposed before another game: Too

<https://rec.games.abstract.narkive.com/6ko6erhR/too#>

Rules:

- 1) Starting with player 1, the players take turns.
- 2) On his turn, a player must place a stone of either color onto any empty space.
- 3) The game ends when board is full.

4) If the 2nd-largest black group is bigger than the 2nd largest white group, then player 1 wins. Player 2 wins otherwise. (If the board contains only one group of a given color, that color's 2nd largest group is said to be zero.)

Note: if two or more groups of the same color are tied for "nth-largest" group of that color, then one is arbitrarily considered the nth largest group of that color, another is considered the (n+1)th largest, and so on.

Ok, these rules are simpler, and although they may look like they lead to an unbalanced game, I'm not sure this is so. Here's why I think so: Player 1 has the decisive advantage on small boards. Consider the 7-cell hexhex board. Player 1 can win easily by placing a white stone on the central hex (thus ensuring that there will only be one white group at game's end). Player 1's advantage springs from the fact that on small board, he can make it impossible for two white groups to exist. As the board size grows, there's an increasing amount of space to ensure a second white group, and in fact in certain positions the extra white stone on the board could be a liability for player 1, since it could allow the 2nd largest white group to be one stone bigger or the second largest black group to be one stone smaller, or both. So as board size grows, player 1's advantage decreases, and possibly even reverses at some point. If white's advantages decreases sufficiently smoothly as board size grows, then there should be some board size where player 1's advantage is pretty nearly offset by the "tiebreak" advantage given to player 2 in this new version of the rules. If that's the case, it could be that there is symmetry where it really matters, in the winning chances, even if the goals are slightly asymmetrical. Let me know if I've said anything stupid, and which version of the game you think you'd prefer.

Also : <https://rec.games.abstract.narkive.com/b3Bfiw1d/brink#>

Another unplayed, untested idea. I love the idea of the win condition "largest group wins", because it's one of the most intuitive ideas in all of game-dom. But it needs a tweak to make an interesting game. One attempt follows. I hope this one works out because I like its concept.

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1. Board begins empty.
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3. Game ends when board is full.

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