

Clear minimal/passing requirement: Prefabricated Maps

Because Smallworld has a board for 2, 3, 4, and 5 players respectively, we only need to make 4 static boards, and sort players into these by player amount.

Extra work: Procedurally Generated Maps

This would require either one algorithm, or four similar configurations of some sort of algorithm.

I (Nicolai) will try to pick apart map characteristics/rules and write them below.

GENERAL:

Graphics note: If we create a basic map shape (times four) and divide it into fields, we can color a version for each of the 5 terrain types (not water, it's static), cut them out, and apply them to the appropriate fields

Terrain types:

Default colors & shapes:

Forest:	Dark green, Green. Trees.
Swamp:	Brown land patches and Grey water.
Field:	Yellow, Orange. Square fields, sometimes a tiny village.
Meadow:	Green, Light green. Various cattle.
Mountain:	White, Grey, Brown. Mountaintops.
Water:	Deep Blue, White. Waves.

BOARD:

<<Enum type>> (*forest, swamp, field, meadow, mountain, water*)

TERRAIN (class) (All terrain objects are fields)

type typeId (*type of terrain (forest, swamp, field, etc.)*)

*int unitID (*0 is default (none), 1 is tribals, beyond that, every race has their own number.*)

int totalStrength (*value calculated only when changed, instead of once per potential battle.*)

int baseStrength = 2 (*every field has a base strength of 2*) *Except mountain terrain.*

(*If typeId == mountain, baseStrength += 1*) (make sure this is only run once)

*int unitAmount (*every unit on a field adds 1 strength*)

int debuff (*in the base game, debuff is always = -1, but it might as well be a variable value*)

int (or enumerator thing) modifier (arraylist) (*acts similar to type, but variable in location*)(*Hills, mine, and magic.*)

boolean Immunity (*Field can only be accessed by the race that triggered it*)

*depends on how units work