

Conquest Mode

Conquest is the default game mode of the CastleConquest 2 project.

It is about capturing and holding flags.

If the attackers manage to hold enough flags for a certain time, they win, otherwise the defenders win.

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Game Concept (Conquest)

General

Conquest is the default game mode of the CastleConquest 2 project. It is a further development of the game mode from the old "BurgConquest" (official name of CastleConquest 1)

It is about capturing and holding flags. If the attackers manage to hold enough flags for a certain time, they win, otherwise the defenders win.

Summary

There are two teams: attackers and defenders. The attackers start in a dedicated attacker spawn. The defenders, on the other hand, start in the castle.

There are several flags in the castle. These belong to the defenders at the start.

The aim of the attackers is to hold more than half of all flags for 5 minutes. If they succeed, they win the game.

However, the attackers have a time limit of 30 minutes. If they do not manage to fulfill this condition by then, the defenders win.

Rules

Teams

- Defenders: Have to prevent the attackers from capturing the castle
- Attackers: Have to capture the castle

Timers

There are two mutually exclusive times.

The game time counting down when the attackers don't have the required amount of flags to win. When the game time has expired, the attackers lose and the defenders win. The game time is

paused as long as the flag timer is active.

The flag timer is counting down then the attackers have the required amount of flags to win. When the flag timer has expired, the attackers win and the defenders lose. The flag timer is counting up when until it has reached 5 minutes when it is not active.

If one of the timers expires, an overtime can be triggered under certain circumstances. If the overtime is active, the corresponding timer is stopped until the overtime has ended. See section Overtime for more information.

Required flags

Required flags for the attackers: More than half of all flags.

The default map has 6 flags. Therefore, the attackers need to hold at least 4 flags to meet the required flags amount.

Overtime

Overtime can be triggered if a team is currently capturing so many flags that the timer condition for the team could still be fulfilled if nothing changes in the current situation.

For example, if the attackers have 3/6 flags and are currently capturing 1 flag and the game time expires while they are still capturing that flag, the game time will pause so that the attackers can finish capturing this flag, which will enable the flag timer.

Another example, if the attackers currently have all 6/6 flags but the defenders are currently capturing 2 flags at the same time and the flag timer expires, the flag timer will pause so that the defenders can finish capturing both flags which would stop the flag timer.

For the overtime system, "a team is currently capturing a flag" when the team has any progress on it (States: Capturing, Uncapturing, IDLE with progress).

Spawning

Attackers will always spawn in the attacker spawn.

Defenders can spawn in two different locations. Either in the castle or in the outposts near the villages outside. When the attackers have half of the flags or more (one less than the win condition), they are forced to spawn outside the castle. If not, they can decide if they want to spawn in the castle or outside using the `/changerespawn [inside|outside]` command.

Money

Players can earn money by killing players, capturing flags or supporting the team. There is also a balancer system which supports players by giving them money when they are too weak.

Money can be used to purchase equipment and tools to break into or to repair the castle.

Equipment System (Conquest)

General

The equipment system differentiates between 3 main categories: Melee, Ranged and Armor.

Each player starts with only a default melee weapon. Players can then upgrade and specialize their equipment using the equipment shops.

Upgrading

Equipment can be upgraded at the equipment shops. In most cases, they are located in the castle, the attacker spawn and the villages. Upgrading works like this:

- At the beginning, you can choose one of multiple weapons/armors in each category.
- If you have chosen a specific weapon/armor, you can upgrade it, which increases the stats of this weapon/armor.
- At certain levels you have to specialize the equipment instead of simply upgrading it. This works in a similar way to deciding on a weapon/armor previously.

Downgrading

Involuntary

- If you die, your current equipment will fall back to the previous equipment level.
- However, there are safe levels from which you will not be downgraded further if you die.
- If you got killed by an enemy who has better equipment than you, you will not be downgraded directly. In this case, you will be downgraded the `otherEquipmentLevel - yourEquipmentLevel`-th time you die from this player.

Voluntary

- You cannot switch the weapons/armors or their specializations once you have selected them.
- If you are really sure that you have chosen the wrong equipment, you can buy an equipment reset at the equipment shop. This will reset the selected equipment category to the default level. then you can re-choose your weapon/armor again.

Get Equipment Info

You can always hover over the item with your mouse to get detailed information about it. This section shows you what the values mean.

Equipment Category

- **Upgrades to:** Shows the next possible equipment levels you can upgrade your equipment to. If not shown, you have already reached the maximum level in this category.
- **Downgrades to:** Shows the equipment level your equipment downgrades to when you die. If not shown, you are on a safe level.
- **Equipment base / Part of:** Some Items come with other items you need to use them. They are then "part of" another item. "Equipment base" means that the item is not part of any item. For example, the Rocket Launcher Crossbow is the base of the Rocket Tier 3.

Weapon/Armor Stats

- **Damage:** Attack Damage
- **Speed:** Attack Speed which is responsible for the attack Cooldown (if not shown: default)
- **Armor:** Armor points
- **Toughness:** Armor toughness
- **Protection:** Level of the protection enchantment
- **Other enchantments:** Shown like in vanilla

Examples

Damage: 5.5
Equipment base
Upgrades to:
Fire Sword +++
Downgrades to:
Fire Sword +

Rocket Tier 3
Firework Stars: 4
Power: 8
Part of:
Rocket Launcher Crossbow ++
Downgrades to:
Rocket Launcher Crossbow +

Heavy Armor +++
Armor: 20
Toughness: 10
Protection: 0
Equipment base
Downgrades to:
Heavy Armor ++

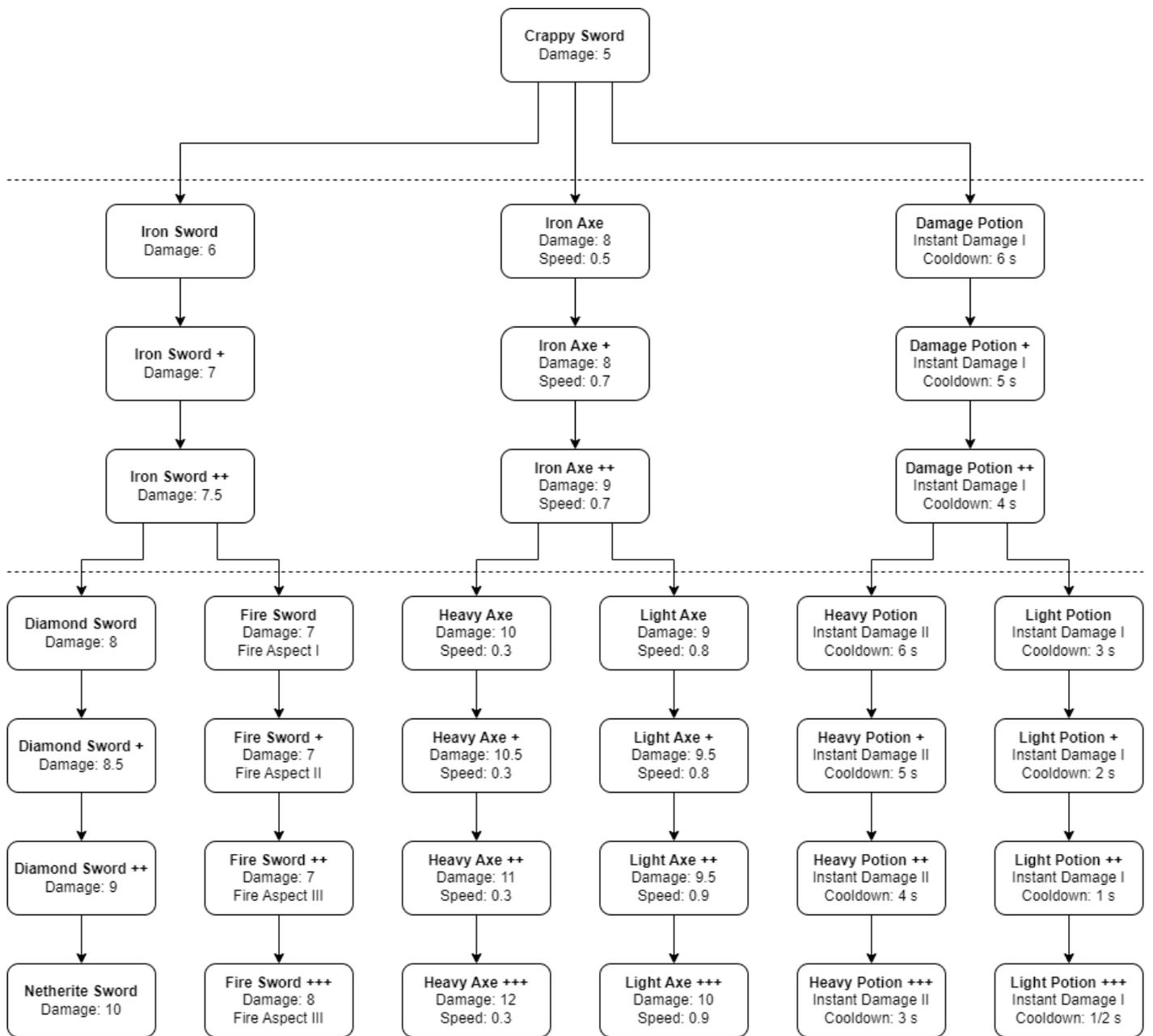
Crappy Sword
Damage: 5.0
Equipment base
Upgrades to:
Iron Sword
Iron Axe
Damage Potion

Rocket Launcher Crossbow ++
Quick Charge I
Ammunition: Rockets Lvl. 3
Equipment base
Downgrades to:
Rocket Launcher Crossbow +

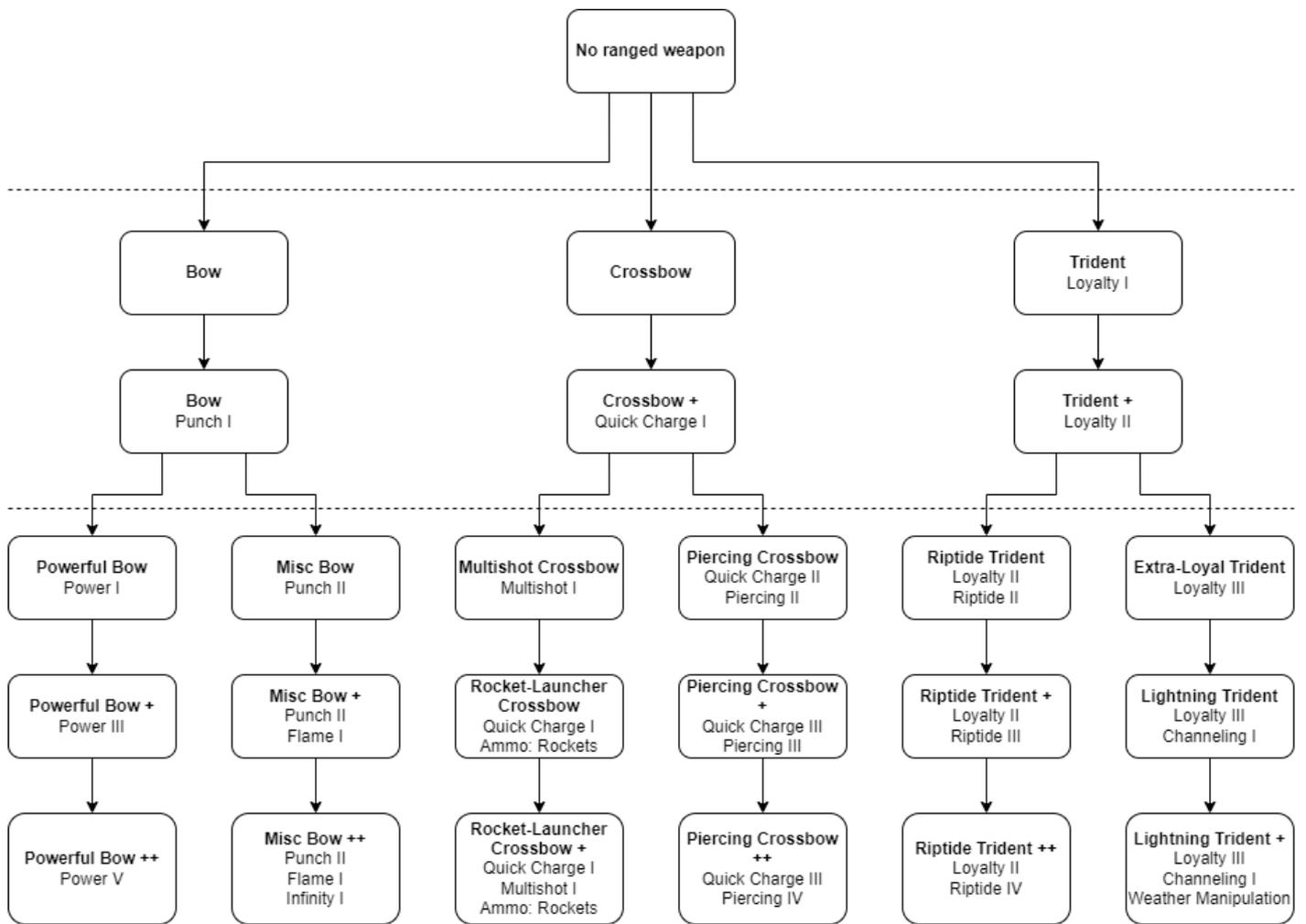
Categories

Here you can see the upgrade maps of the categories. The dashed line shows the safe levels.

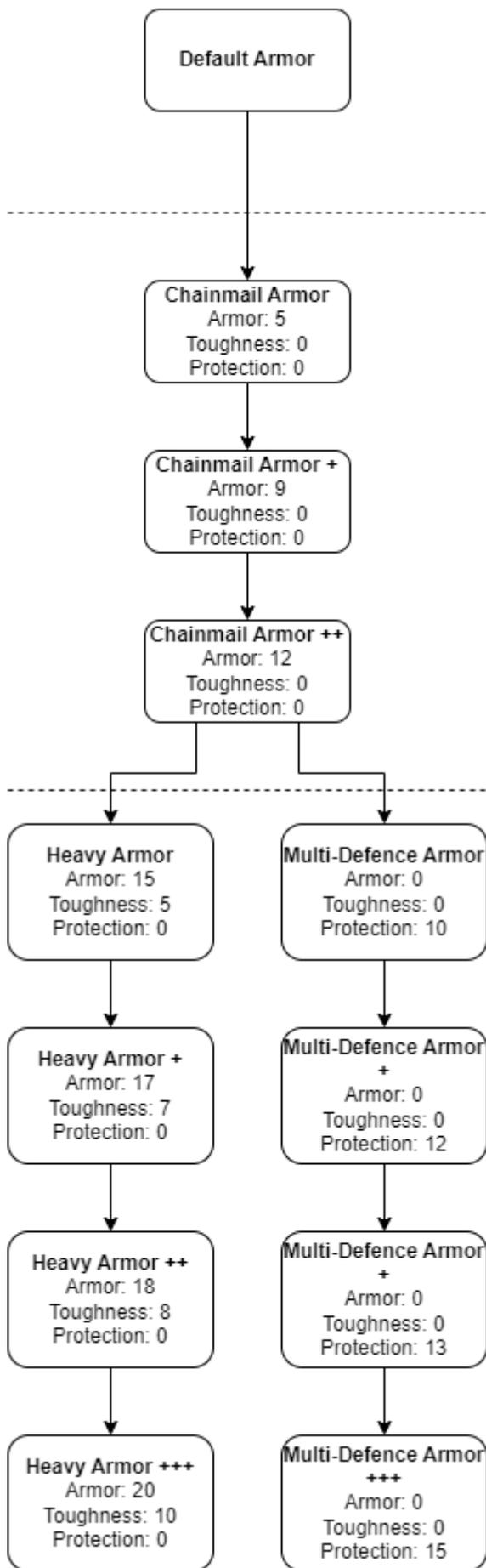
Melee



Ranged



Armor



Developer Info

Management command

The player equipment can be managed using the `/cc2 game players specificvalue` command.

Usage

```
/cc2 game players specificvalue <player: (UUID|String)> equipment [<category: String> [<id: Integer>]]
```

Examples

- Get all equipments: `/cc2 game players specificvalue <player> equipment`
- Get a specific equipment: `/cc2 game players specificvalue <player> equipment <category>`
- Set a specific equipment: `/cc2 game players specificvalue <player> equipment <category> <id>`

Responsibilities

The `ConquestEquipmentSystem` handles the equipment. `ConquestEquipmentData` stores information about one equipment level and contains `ConquestEquipmentItem`s that represents the items of that equipment. The `ConquestDeathListener` is also part of the equipment system (downgrading players). The `ConquestEquipmentGUI` is responsible for the equipment shop.

Flags (Conquest)

General

Holding flags is the main objective in conquest mode.

For the attackers to win, they must hold more than half of all flags for 5 minutes.

In order for the defenders to win, the attackers must run out of their available time of 30 minutes.

Both timers are mutually exclusive. This means that if the attackers' 5-minute timer is active, the defenders' 30-minute timer is inactive. The same applies the other way round, but the attackers' 5-minute timer counts up to 5 minutes again in the background as long as it is inactive.

Behavior

Status	Condition	Result
IDLE	No enemy team and no capturing progress on the flag	Nothing happens
Capturing	Other team is in the majority on the flag	Capturing progress increases
Uncapturing	Holding team is in the majority on the flag	Capturing progress decreases
IDLE with progress	No team is on the flag, but there is still capturing progress on it	Capturing progress decreases slowly
Tie	Both holding team and other team is on the flag with the same amount of players	Nothing happens

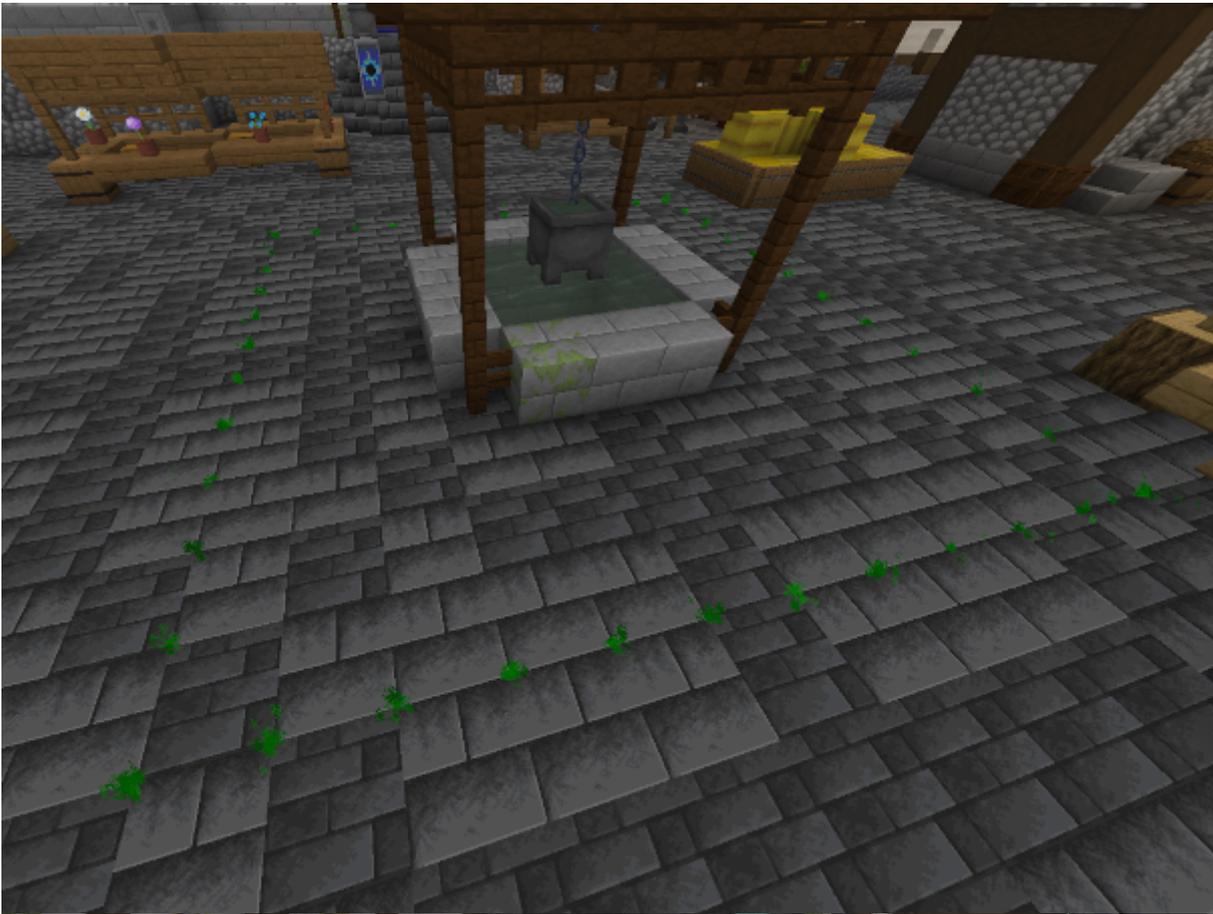
- When the capturing progress reaches 100 %, the team that had capturing progress on the flag is now the new holding team
- “Team in majority” means that the team has the most players on the flag compared to the other team.

Appearance in world

Particles

The green or red particles on the ground are marking a flag area. The particle color is the current holding team of the flag. That means, if the flag is currently controlled by the defenders, the particles are green. When the attackers are holding the flag, the particles are red.

Here you can see how that looks:



Flag Object

A planned feature is that there is an actual flag model in the flag area. Since we currently don't have someone who creates custom models, this feature isn't currently available.

Sidebar

The sidebar shows the flags available. The color of the flag letter is the current holding team.



There is also a capturing indicator. It is shown in the color of the team which currently has capturing progress on the flag.

Icon	State	In this example
	Capturing	Attackers are capturing A. Capturing progress of attackers increases.
	Uncapturing	Defenders are uncapturing A. Capturing progress of attackers decreases.
	IDLE with progress	Attackers are not actively capturing A, but still have progress on it. Capturing progress of attackers decreases slowly.

Icon	State	In this example
N/A	IDLE or Tie	Defenders hold A without any capturing progress by the attackers, or both attackers and defenders have the same amount of players on the flag.

Flag Locations

Default map

Letter	Location
A	In front of the main gate
B	Center of the Yard
C	Tower in the Throne Building of the Yard
D	Park (inofficially known as "Oxygen") in the basement
E	Dining room in the basement
F	Water Generator Room in the basement

Developer info

Control command

Usage

```
/cc2 game flags [<flagId: int>
[area|captureprogressdecreaseidle|captureprogressdecreaseuncapture|captureprogressincreasecapture|captureprogr
essincreaseidle|capturingprogress|capturingteam [reset]]|holdingteam [<holdingTeam:
int>|id|location|majorityteam|name]]
```

Examples

- Get list of flags: `/cc2 game flags`
- Show info about one flag: `/cc2 game flags <flagId>`
- Show specific info about one flag: `/cc2 game flags <flagId> captureprogressdecreaseidle`
- Change holding team: `/cc2 game flags <flagId> holdingteam 1`
- Reset capturing team (and progress): `/cc2 game flags <flagId> capturingteam reset`

Flag states

How it works internally

Instead of the flag states which are shown to the outside, the flag uses 3 different values which then results in the flag state:

- `holdingTeam`: The team that is currently holding the flag
- `capturingTeam`: The team that has currently capturing progress on the flag
- `majorityTeam`: The team that has currently the majority of players on the flag

Then there is also the `capturingProgress`:

- Depending on the values, the `capturingProgress` increases, decreases or remains unchanged. If the `capturingProgress` reaches a certain value, the `capturingTeam` becomes the new `holdingTeam`.
- The `capturingProgress` resets to 0 if there is no `capturingTeam`.
- If the `capturingProgress` is 0 or below, the `capturingTeam` is cleared
- The `holdingTeam` cannot be the `capturingTeam`

Internal values to flag state

Internal name	Condition	Result	Shown name
IDLE	<code>capturingTeam</code> not set	Nothing happens	IDLE
CAPTURING	<code>capturingTeam</code> is set and <code>capturingTeam == majorityTeam</code>	<code>capturingProgress</code> increases	Capturing
UNCAPTURING_BY_OWNER	<code>capturingTeam</code> is set and <code>majorityTeam == holdingTeam</code>	<code>capturingProgress</code> decreases	Uncapturing
UNCAPTURING_BY_OTHER	<code>capturingTeam</code> is set and <code>majorityTeam != holdingTeam != capturingTeam</code>	<code>capturingProgress</code> decreases	N/A (not possible except when using commands)
UNCAPTURING_IDLE	<code>capturingTeam</code> is set and <code>majorityTeam</code> not set	<code>capturingProgress</code> decreases	IDLE with progress
MULTIPLE_TEAMS	<code>capturingTeam</code> is set and majority team set to multiple teams value (-1)	Nothing happens	Tie

Responsibilities

- Each flag is represented by an object of `ConquestFlag`. They are stored in the flags map in `ConquestGame`.
- A `ConquestFlagCapturedEvent` is fired when the holding team of the flag changes (due to capturing). Cancelling this event will prevent the holding team from getting changed, but

since it does not change anything else, the flag will try to change its holding team again the next tick if the conditions are the same.

- A `ConquestFlagPlayerOnFlagEvent` is fired for each player inside the flag area. Cancelling this event will remove the player from the majority team calculation for the current tick.