



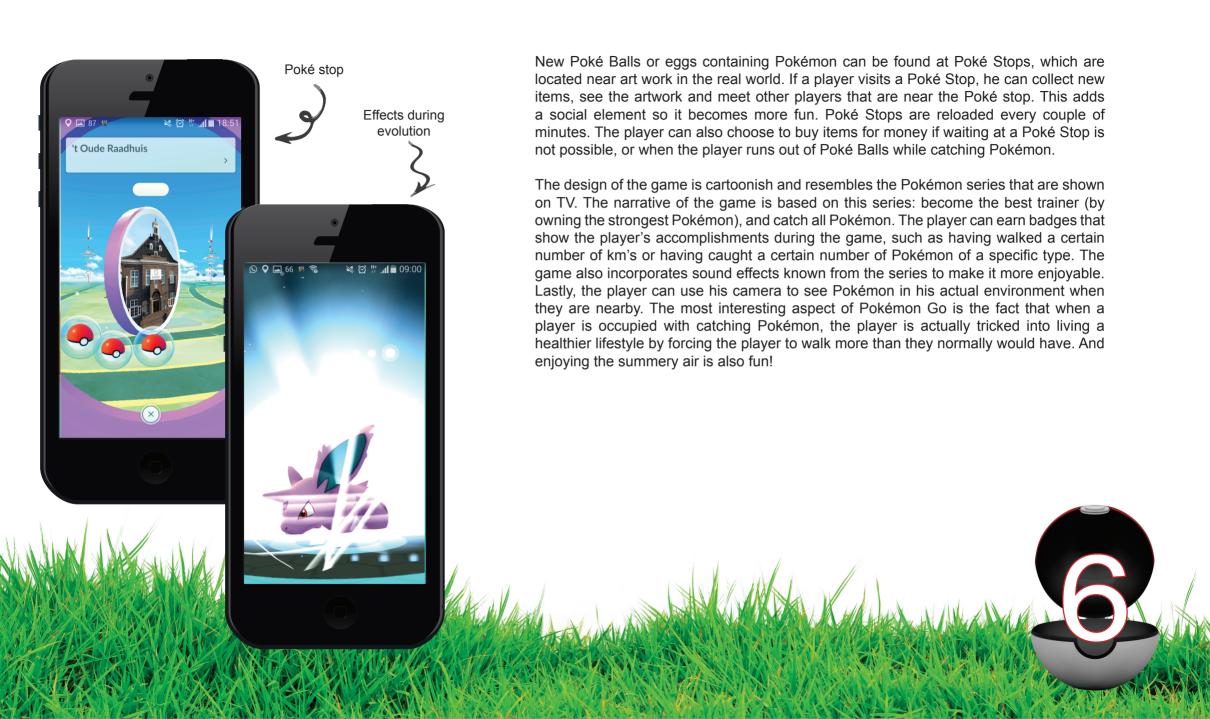
Pokémon Go allows players to capture popular cartoon creatures, Pokémon, in real life by providing a virtual world on top of the real world using maps and VR camera overlays. The player is represented by an avatar. The level of the user and the in-game achievements earned are tied to this avatar.

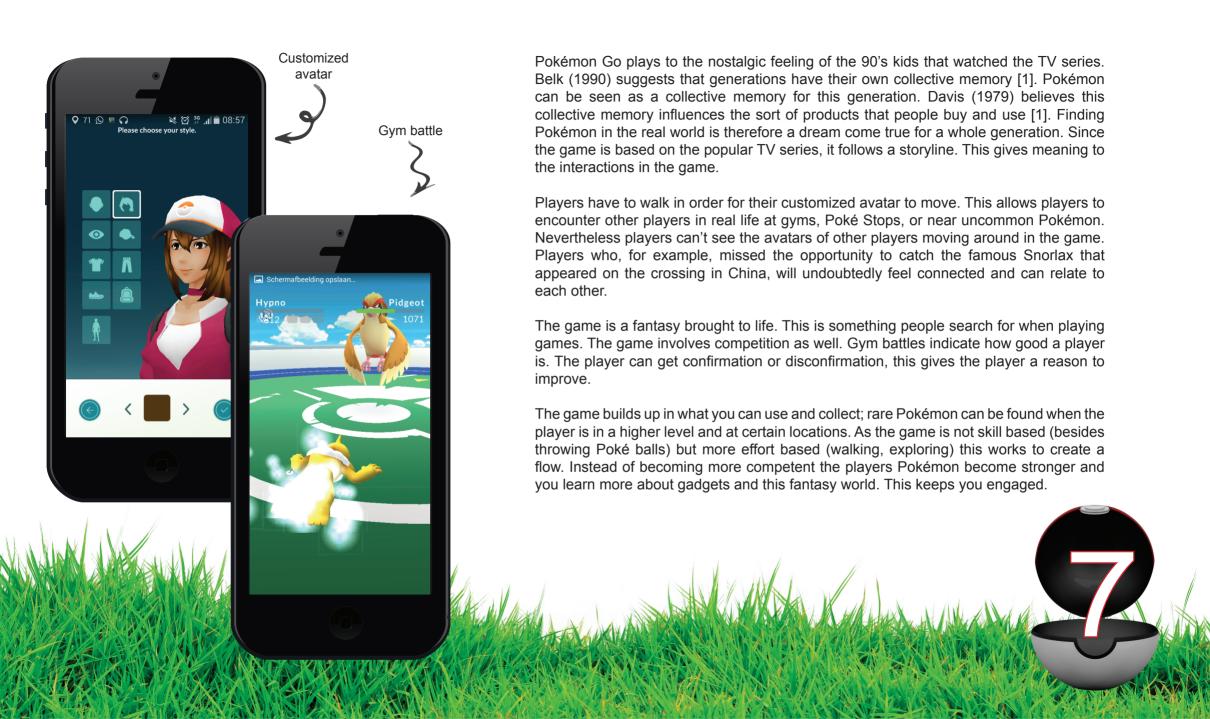
The player can choose to become part of one of three rivaling teams in level 5. The game world consists of a cartoon version of the map of the region where the player is currently located. Pokémon spawn on this map but change location all the time, allowing the player to catch them when they look for them.

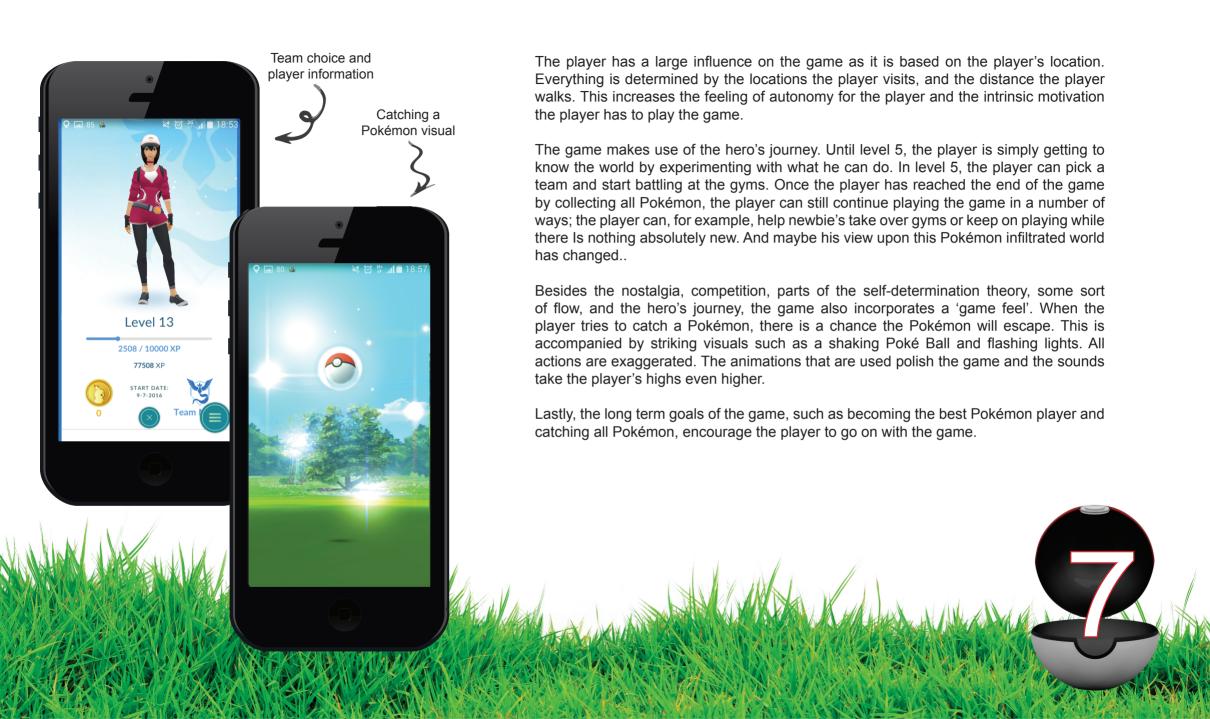
Pokémon come in different levels and with different abilities. The higher the Pokémon's level, the harder it becomes to capture that Pokémon (his combat power is higher). There are also two special locations that can be found on the map: Poké Stops, where the player can get free in-game items, and Gyms, where the player can choose to battle other players' Pokémon. If the gym in question has been conquered by another player from the same team, then the player can choose to make the gym stronger by defending it. But the player can also try to take over the game by battling with the defenders.

In-game items, such as Poké Balls, potions, raspberries, lure modules and eggs, play a big role in the game. You need these gadgets such as potions to let your Pokémon heal after a battle or to make them stronger. More different kinds of gadgets become available throughout the game. Poké Balls are used to capture Pokemon, and eggs will hatch into a Pokémon if the player has walked a certain number of kilometers. A few in-game items are dropped for free at Poké Stops, but the player can also choose to purchase these items in the game's store.













When Pokémon Go is looked at as a mathematical system, it consists of the following objects, attributes, internal relationships, and environment [3]:

# Main objects:

- The avatars of the people playing the game;
- Pokémon as digital creatures within the game;
- Poké Stops and gyms as locations within the game and the real world;
- Poké Balls / eggs / potions / egg incubator / raspberries: items.

#### Attributes:

- The locations of Pokémon as given by the game server and the time they will stay there;
- The locations that are picked to be a Poké Stop or gym (real world artwork);
- The movement of the player's avatar as guided by the GPS on the phone;
- The combat power given to a Pokémon, the chance it is caught and the strength of a certain attack move that a Pokémon knows initially:
- The initial amount of Pokéballs a player gets;
- The items a player can find at a Poké Stop (eggs, potions, Poké Balls, etc.) and how long you have to wait for the Poké Stop to refill.

## Internal Relationships:

- The distance between the location of a player to the location of Pokémon, gyms, and Poké Stops. Example: being further away to stops and Pokémon and needing to walk to them increases the level of difficulty.
- The rules considering the interaction that is possible between a player's avatar and ingame elements, such as Pokémon, Poké Stops, and gyms. Such as catching (in case of Pokémon), hatching (in case of egg), and getting items (in case of Poké Stop). To give an example: your team choice determines if you fight to get a gym up in prestige or to take over the reign.

#### Environment:

The real world and the digital fantasy world in the context of play.

The real world location of the player and his perception of the game





When Pokémon Go is looked at as an experiential system, it consists of the following objects, attributes, internal relationships, and environment [3]:

## Main objects:

The various players and their phones (GPS)

#### Attributes:

- The level of the player and the Pokémon and items the player has (the state of the game);
- The location of the player based on the GPS in their phone.

### Internal relationships:

Since players are the objects and their location in the real world plays a role within the game, players (can) meet at Poké Stops or gyms and get to know each other and the Pokémon of their opponents in the real world (which the game does not show in the digital world). Because players (can) interact, their psychological, emotional, and social relationships and communication are parts of the internal relationships (the player's team choice and level play a role in this, in other words: the state of the game influences this).

#### **Environment:**

- The perception the players have of the game and any of their preconceptions;
- The real-world location and environment of the players;
- The software environment of the game on players' phones.



Pokémon owned by a player



