

How to add formulas and chemical names to the game

Files

There are three files containing the formulas and chemical names: `entities1.lvl`, `entities2.lvl` and `entities3.lvl`, the number corresponding to the difficulty. They can be found in the folder `assets/data`.

Formatting your line

To add new chemical elements to the files, you have to separate each element with the `::` operator.

`french_name::english_name_or_symbols::good_answer::wrong_answer1::wrong_answer2::wrong_ar`

Example: `Amidure::Azanide::NH2-::NH::NH3::NH4+`

You don't have to worry about the order of the wrong answers, as it will be randomized with the good answer in the game.

If you don't follow the line format, the game will show an error, with the name of the file and the relevant line.

 An example of error screen in the game

Spaces are allowed.

`Acide chlorhydrique::Hydrochloric acid::HCl::KCl::H2Cl2::HCl2`

Comments start with `//`.

`// This line will be ignored by the program.`

Symbols and ids

Instead of writing the English names for each element you add, you can use symbols. The `*` symbol means that the french chemical name will be picked (accents are removed).

To simplify the following examples, I will write `(...)` instead of

`good_answer::wrong_answer1::wrong_answer2::wrong_answer3`

Example: `Acétate::<*::(...)` => Acetate

You can add ids after `*` to not only pick the french chemical name and remove accents, but also add other modifications to it.

- `*i` replaces last occurrence of y by i. `Hydroxyde::i::(...)` => Hydroxide
- `*l` removes the last character. `Hydrogène::*l::(...)` => Hydrogen
- `*ium` removes the last character and adds ium suffix. `Chrome::*ium::(...)` => Chromium
- `*ide` replaces ure suffix by ide. `Chlorure::*ide::(...)` => Chloride
- `*rev` interchanges the words and removes French preposition. `Cyanate de sodium::*rev::(...)` => Sodium cyanate
- `*rev` also translates argent into silver, as many elements of the files have it. `Iodate d'argent::*rev::(...)` => Silver iodate
- `*acid` interchanges the words, changes the suffix (from ique to ic) and capitalizes the result. `Acide maléique => Maleic acid`

You can call multiples symbols by separating them using the `:` operator. All modifications will be made in order.

`Peroxyde d'hydrogène::*l::*rev::*i::(...)`

1. `*l` => Peroxyde d'hydrogen
2. `*rev` => Hydrogen peroxyde
3. `*i` => Hydrogen peroxide

You can also use several times the same symbol.

`Hydroxyde de baryum::*i::*rev::*i::(...)`

1. `*i` => Hydroxyde de barium
2. `*rev` => Barium hydroxyde
3. `*i` => Barium hydroxide