Last updated: 2022/07/04 kkona

TL; DR

- Some types have an immunity, but Electric is healed by other Electric Types instead of damaged
- Attacking:
 - "Best" attackers:
 - * Fire
 - * Electric
 - * Ice
 - * Earth
 - * Void
 - "Worst" attackers:
 - * Toxic
 - * Sound
 - * Nature
 - * Fire
- Defending:
 - "Best" defenders:
 - * Metal
 - * Earth
 - * Void
 - * Water
 - "Worst" defenders:
 - * Air
 - * Nature
 - * Water
 - * Metal

Note: Types may be found, analyzed, and modified using an EditorUtilityWidget found under Content/Editor/Type-Advantage, right-clicking the TypeAdvantages widget, and selecting Run Editor Utility Widget.

1 Map from Pokémon



Figure 1: The 18 Pokémon types (left) approximately mapped to the 16 Gene Hunter Types (right).

2 Data

The raw data acquired from the statistics tab of the type advantages UI (see Figure 2) can be found under the "Type-Matchup-Statistics-Copy" folder. They're formatted as .tex tables in case I ever wanted to print them, but they can be opened up with any text editor (think Notepad). As pictured, Typeless has been excluded in the analysis.gith

I don't recommend parsing through it unless you're looking for something specific. For example, the 2v2 data has 126 entries. The full data is always available by running the UI as seen in the figure below.



Figure 2: The statistics UI (from which the data was acquired).

The following sub-sections list data. The Type numbers in parentheses are the sum of advantages¹ of single- and dual-Type defenders. For example, in the first sub-section, Fire has 4 single advantages and 68 dual advantages for a total of 72 Types.

A minimum of five Types are listed, or more when there is a tie for fifth place.

2.1 Attacking

When attacking, "best" is defined as most effective and "worst" is defined as the most resisted. In practice, these may not so easily be defined.

2.1.1 Best Single-Type Attackers

• Fire (72)

¹or resists, or disadvantages, or whatever.

- Electric (69)
- Ice (69)
- Earth (63)
- Void (63)

2.1.2 Best Dual-Type Attackers

- Earth + Ice (132)
- Electric + Void (132)
- Fire + Nature (129)
- Earth + Electric (128)
- Ice + Void (128)

Note: not surprisingly, these are just combinations of the best single-Type attackers plus Nature.

2.1.3 Worst Single-Type Attackers

- Toxic (92)
- Sound (86)
- Nature (80)
- Fire (72)
- Earth (69)
- Martial (69)

2.1.4 Worst Dual-Type Attackers

- Fire + Sound (53)
- Fire + Martial (44)
- Earth + Void (41)
- Nature + Toxic (35)
- Earth + Sound (34)

2.2 Defending

When defending, "best" is defined as most resists and "worst" is defined as the most weak to. In practice, these may not so easily be defined.

2.2.1 Best Single-Type Defenders

- Earth (16*)
- Metal (16*)
- Void (16*)
- Nature (16)
- Water (16)

2.2.2 Best Dual-Type Defenders

- Electric** + Metal* (36)
- Electric** + Void* (36)
- Earth* + Magic (36)
- Fire + Void* (36)
- Ice + Metal* (36)
- Magic + Water (36)

2.2.3 Worst Single-Type Defenders

- Air (104)
- Water (104)
- Metal (104)
- Nature (104)
- Fire (81)
- Void (81)
- Earth (81)

^{*}denotes at least one immunity.

^{*}denotes at least one immunity.

^{**}denotes at least one healed-instead-of-damaged.

2.2.4 Worst Dual-Type Defenders

- Fire + Metal (144)
- Void + Water (144)
- Void + Fire (144)
- Void + Earth (125)
- Air + Ice (125)
- Air + Magic (125)
- Air + Martial (125)
- Air + Nature (125)
- Air + Spirit (125)
- Air + Void (125)
- Magic + Water (125)
- Nature + Ice (125)
- Nature + Light (125)
- Nature + Sound (125)
- Nature + Water (125)
- Nature + Void (125)
- Fire + Spirit (125)
- Metal + Toxic (125)

3 Type Traits

As an additional balancing tool, all Types will have traits (including Typeless). This is essential: we do not want to strike balance by doing the analysis as we've done above. For example, can you imagine how boring it would be if every Type had exactly 3 weaknesses and 3 resistances? It would be equally boring to have two or three Types be dominant and the rest to fall into F-tier. Instead each Type should have its own unique identity and balance should not be so black-and-white.² Therefore, the following has been proposed:

Table 1: Type Trait Suggestions

Type	Description
Air	Flight lowers the gravity scale and raises the jump height (maybe even flies one day?).
Ice	Frost armor that regenerates when not taking damage.
Magic	5th attack slot for Magic-only utility moves (such as teleportation or cis/transdimensional portal). Magic's dis/advantages are too beige, and this gives the player an incentive to have at least a Magic dual-Type.
Martial	A c-c-c-combo! meter that fills by damaging within a certain window or by using all moves in a certain order. The reward should be extra damage on the next attack or entering a berserk state. Martial really needs something because it's so bland on paper.

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²The old Pokémon games promised that I could "play with the Types I like," but that hope was crushed when Bug-types were found to be non-viable in OU (mostly). Scyther was almost saved with Scizor, and even Volcarona fell to UU before long. Why have these scrap types? For the sole purpose of pacing the early game? I found I had to throw away the Beedrill I fell in love with, and so this is my revenge!

Table 1: Type Trait Suggestions (Continued)

	<u> </u>
Nature	Regrowth: HoT that starts when not taking damage and stops when taking damage
	Bark armor that prevents damage on switch for x seconds
Typeless	2x STAB instead of 1.5x (tune as needed!)

These are not complete, as I'm certain future team members will have better ideas than mine.

4 Type Groups

The Types fit nicely into two or three group schemes. The reason for these groups could be gym-esque leaders, talent tree options, or other game mechanics.

Table 2: Type Scheme 1

Group Name	Types
Arctic	Air
	Ice
	Water
Desert	Earth
	Fire
	Metal
Energy	Electric
	Light
	Sound
Jungle	Martial
	Nature
	Toxic
Paranormal	Magic
	Spirit
	Void

Table 3: Type Scheme 2

Group Name	Types
Energy	Fire
	Light
	Sound
Jungle	Air
	Nature
	Toxic
Paranormal	Magic
	Spirit
	Void
Planetary	Earth
	Ice
	Water
Power	Electric
	Martial
	Metal
	(Typeless?)

Table 4: Type Scheme 3

Group Name	Types
Arctic	Air
	Ice
Combat	Martial
	Metal
Energy	Electric
	Sound
Island	Earth
	Water
Jungle	Nature
	Toxic
Null	Typeless
	Void
Paranormal	Magic
	Spirit

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Table 4: Type Scheme 3 (Continued)

Solar	Fire
	Light