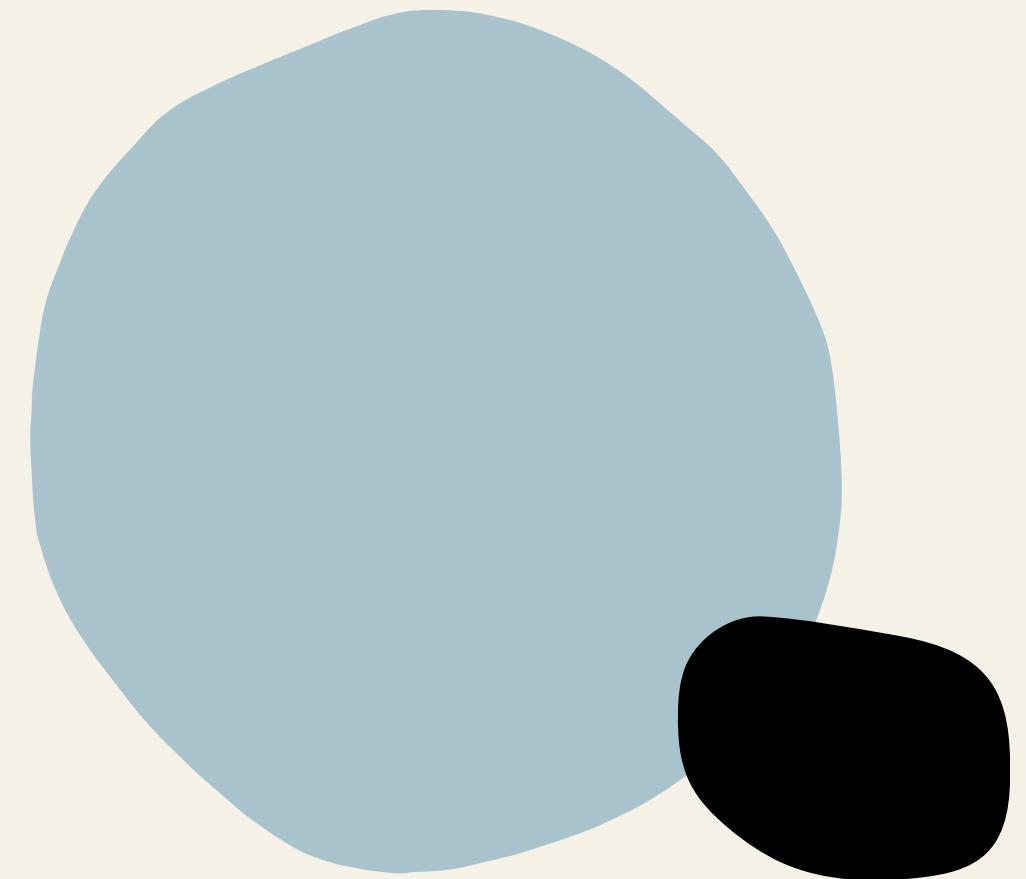
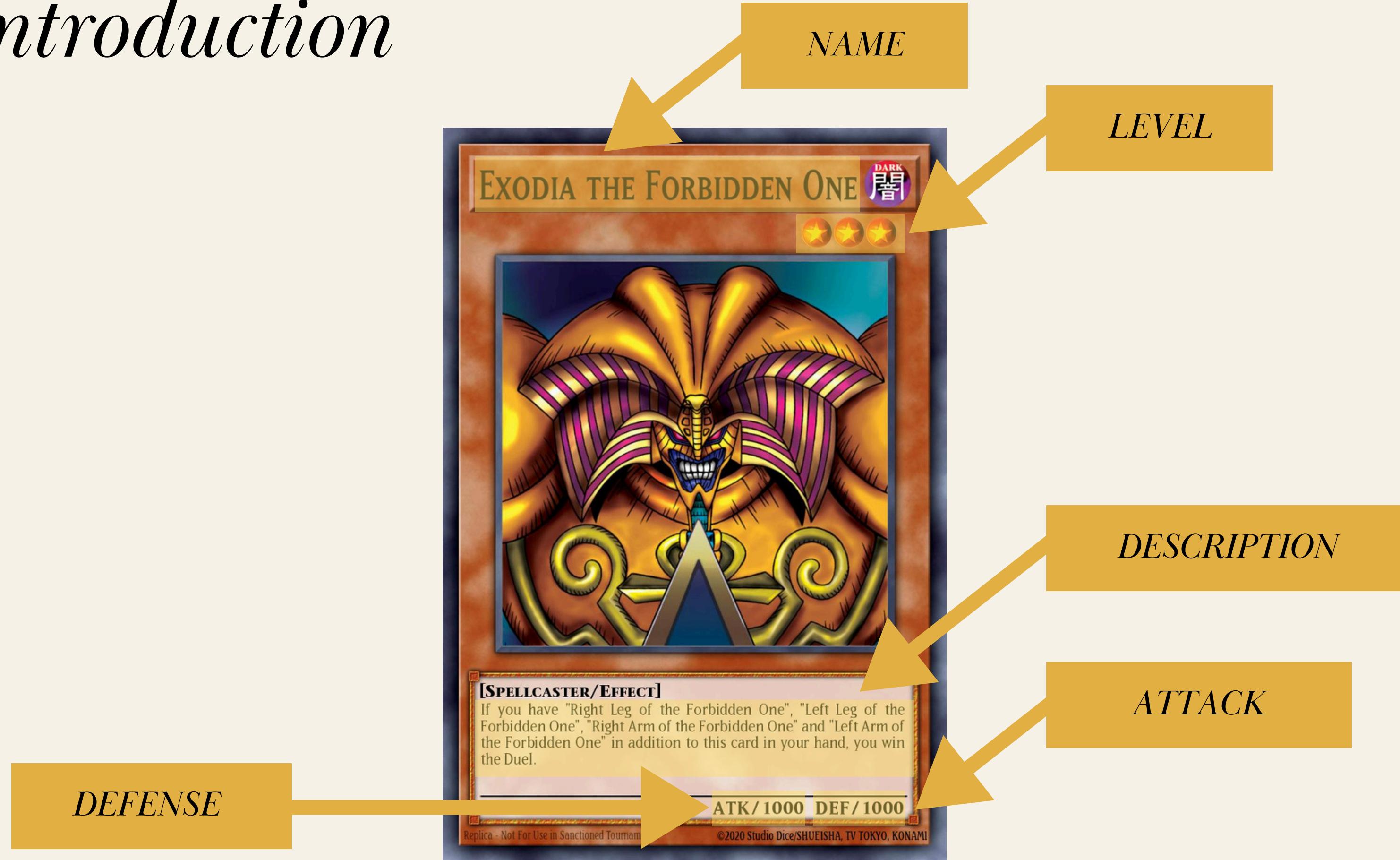


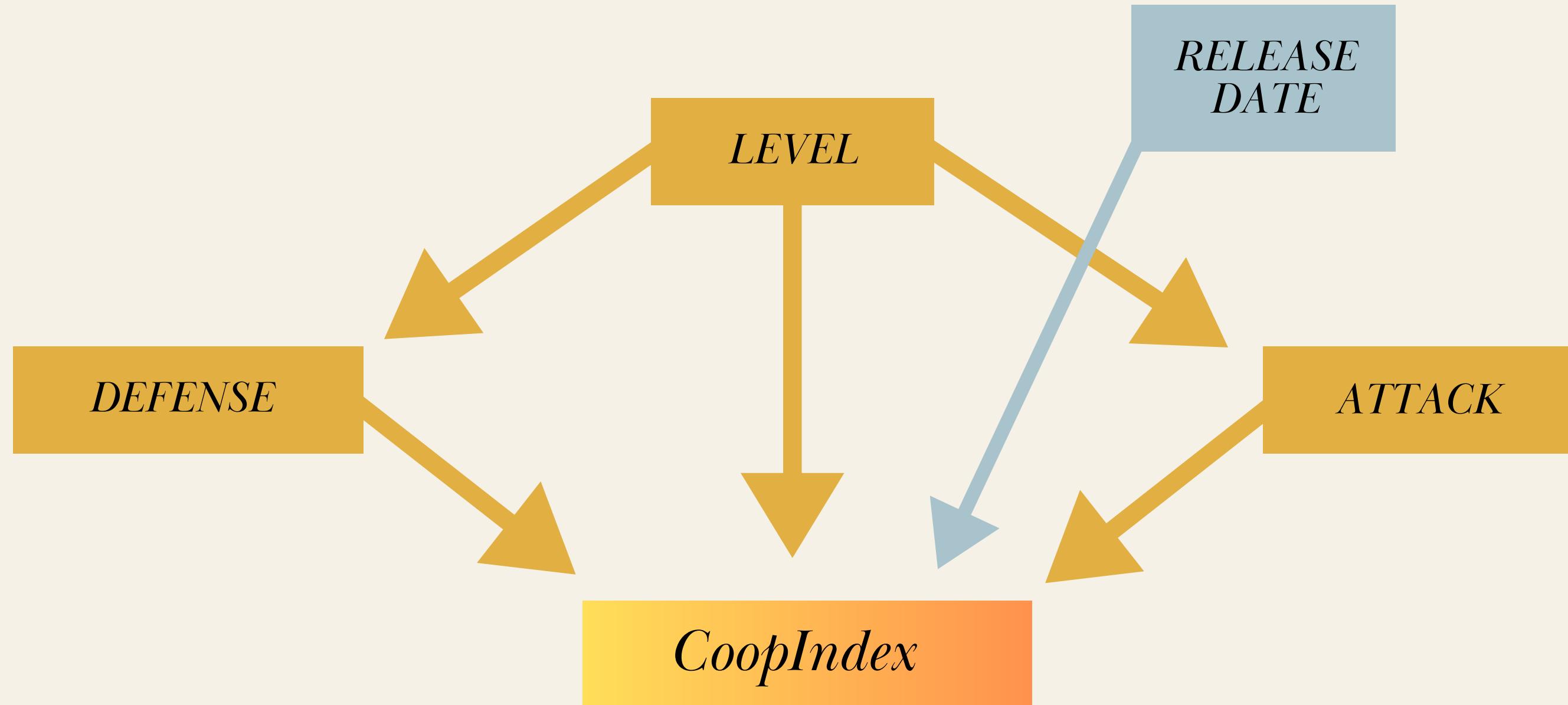
Are Yu-Gi-Oh cards
with the highest
combat stats more
individualistic?



Introduction



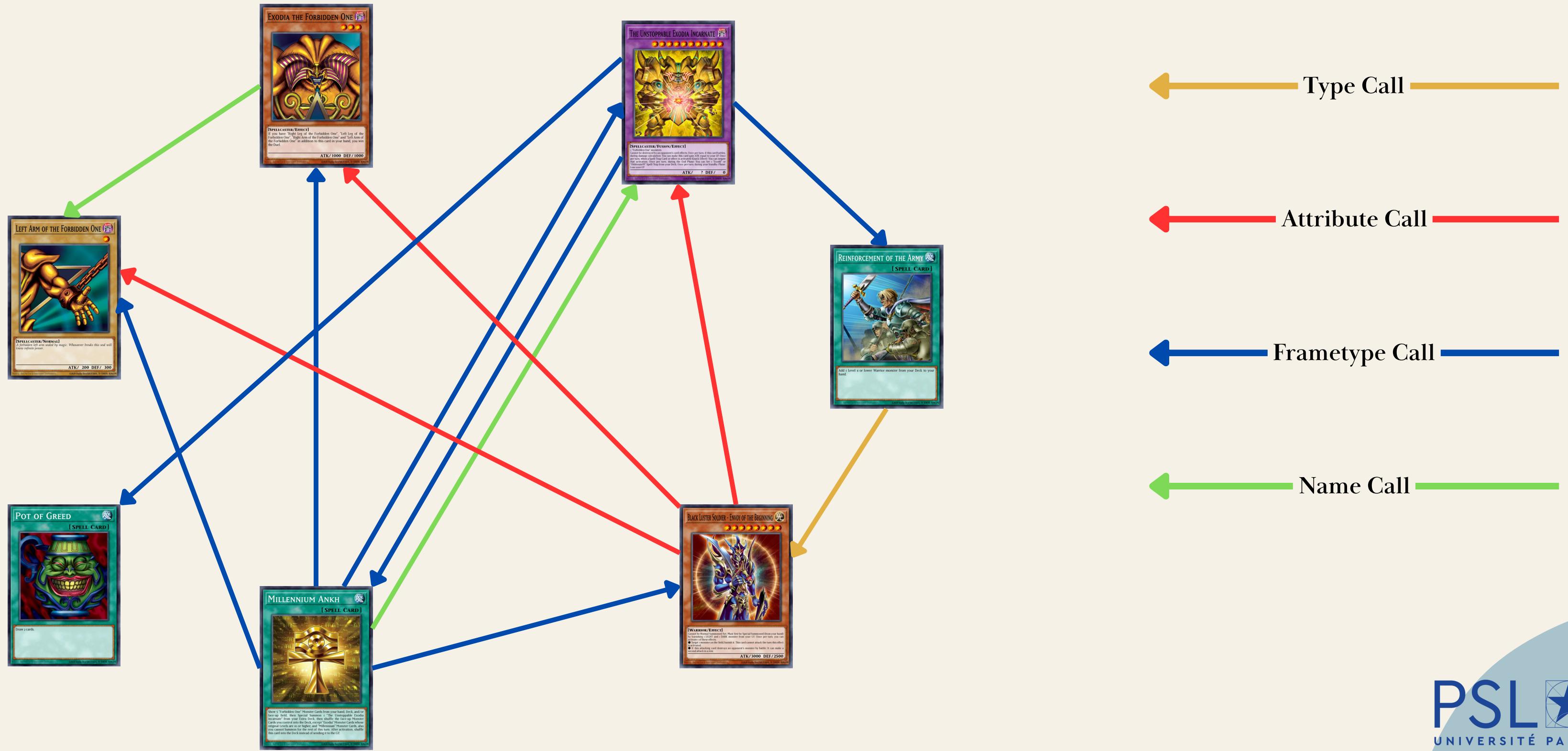
Introduction



I - Data extraction (from YGOprodeck API)

		name		desc	atk	defe	attribute	type	frametype	level
0	"A" Cell Breeding Device		During each of your Standby Phases, put 1 A-Co...	NaN	NaN	NaN	Continuous		spell	NaN
1	"A" Cell Incubator		Each time an A-Counter(s) is removed from play...	NaN	NaN	NaN	Continuous		spell	NaN
2	"A" Cell Recombination Device		Target 1 face-up monster on the field; send 1 ...	NaN	NaN	NaN	Quick-Play		spell	NaN
3	"A" Cell Scatter Burst		Select 1 face-up "Alien" monster you control. ...	NaN	NaN	NaN	Quick-Play		spell	NaN
4	"Case of K9"		When this card is activated: You can add 1 "K9...	NaN	NaN	NaN	Continuous		spell	NaN
...
13611	ZW - Sleipnir Mail		You can target 1 "Utopia" monster you control;...	1000.0	1000.0	LIGHT	Beast		effect	4.0
13612	ZW - Sylphid Wing		You can only control 1 "ZW - Sylphid Wing". Yo...	800.0	1600.0	LIGHT	Beast		effect	4.0
13613	ZW - Tornado Bringer		You can target 1 "Utopia" monster you control;...	1300.0	1800.0	WIND	Dragon		effect	5.0
13614	ZW - Ultimate Shield		When this card is Normal or Special Summoned: ...	0.0	2000.0	EARTH	Aqua		effect	4.0
13615	ZW - Unicorn Spear		You can target 1 "Number C39: Utopia Ray" you ...	1900.0	0.0	LIGHT	Beast		effect	4.0
13616 rows × 8 columns										

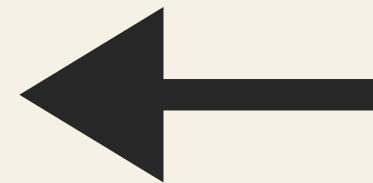
II.1 - Build a graph to organize data



II.2 - Coop Index

$$coopIndex_i = \frac{(oNamecall_i + oTypecall_i + oAttributecall_i + oFrametypcall_i - iNamecall_i - iTypcall_i - iAttributecall_i - iFrametypcall_i)/8}$$

coopIndex
-285.375
-240.750
-270.875
-310.125
10.125
...
-305.250
-305.250
-309.250
46.750
-305.125

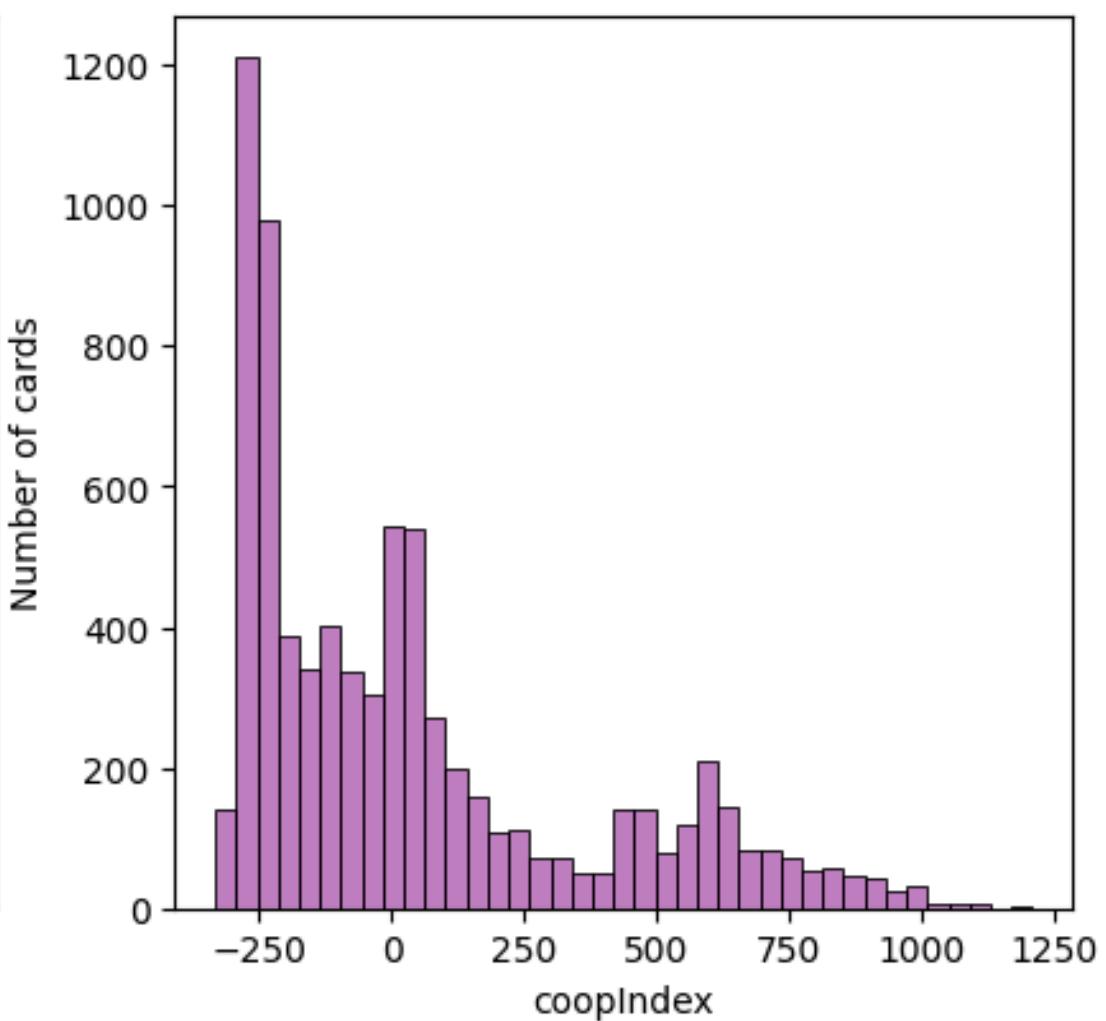
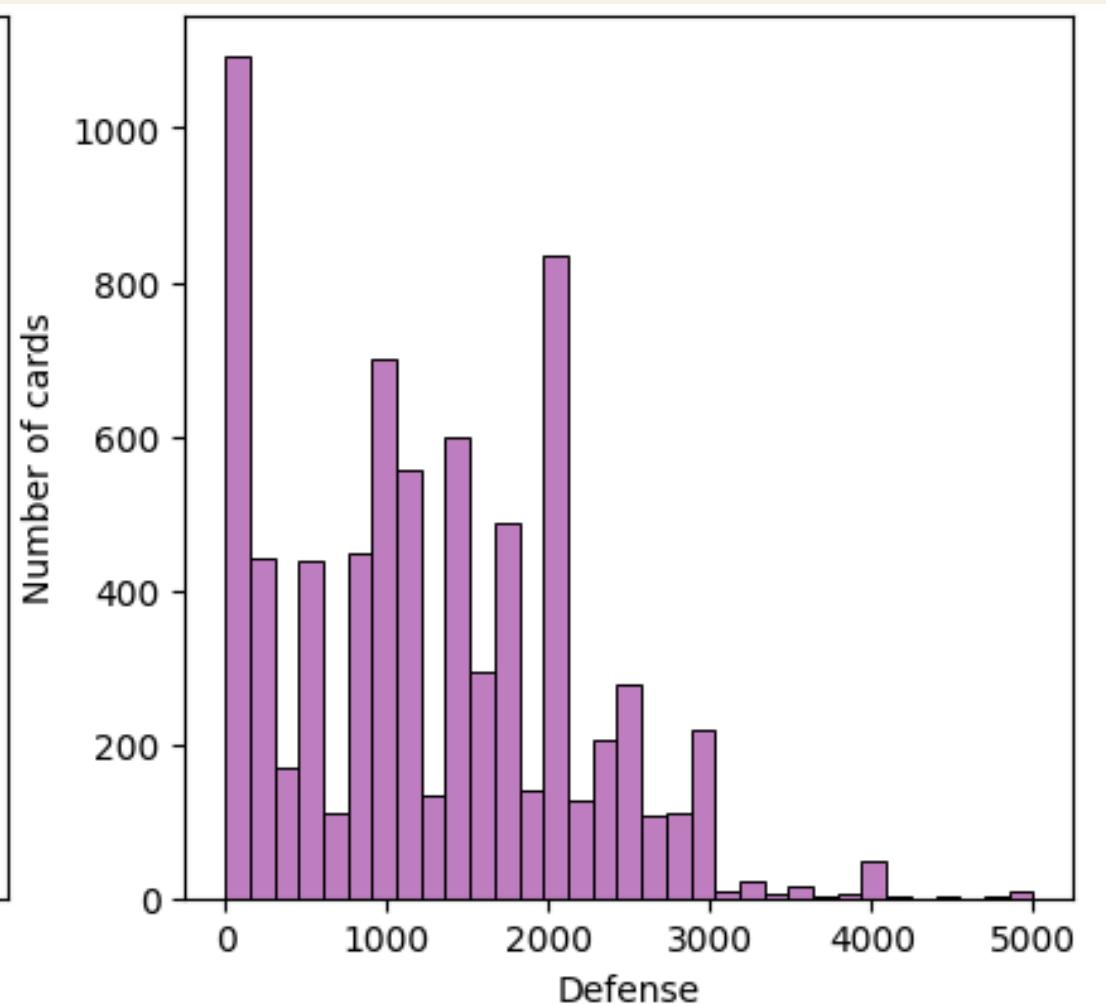
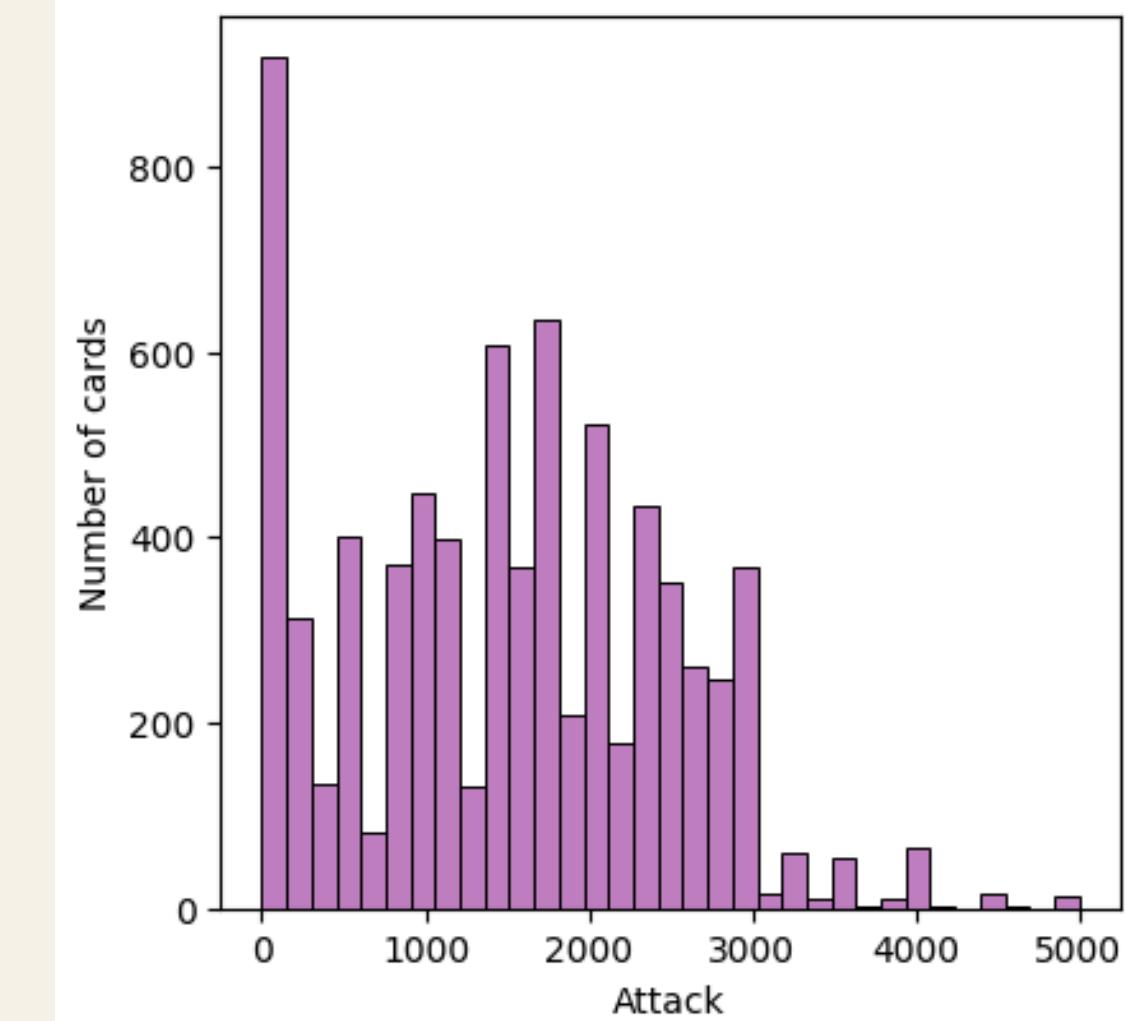
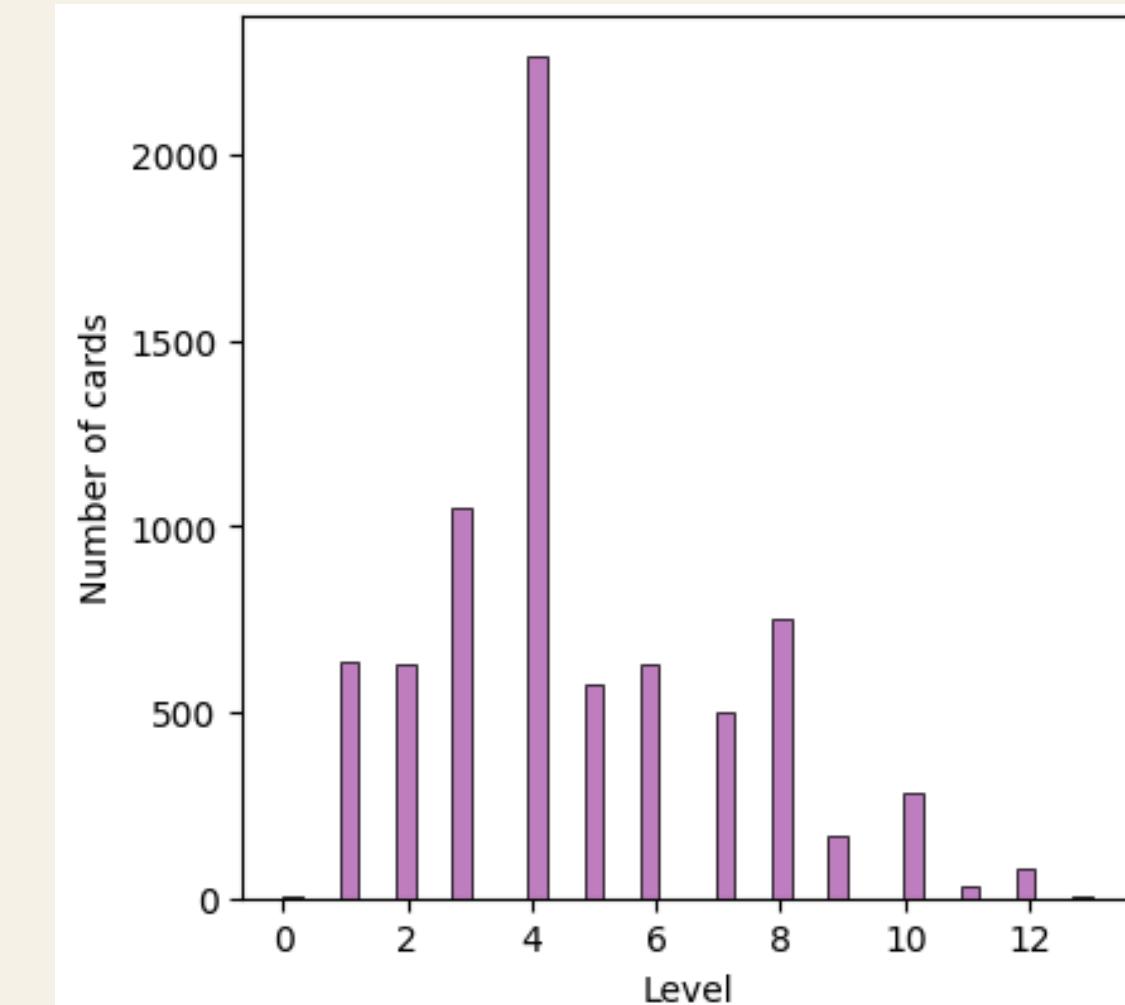


	innamecall	outnamecall	intypecall	outtypecall	inattributecall	outattributecall	inframetypcall	outframetypcall
	0	0	159	165	0	0	340	0
	0	0	159	165	0	0	340	0
	0	0	0	0	0	0	365	0
	0	0	0	0	0	0	365	0
	1	1	159	0	0	0	340	0

	1	1	494	0	435	0	1513	0
	1	1	494	0	435	0	1513	0
	1	1	877	0	185	0	1412	0
	1	1	88	2280	244	0	1574	0
	1	2	494	0	435	0	1513	0

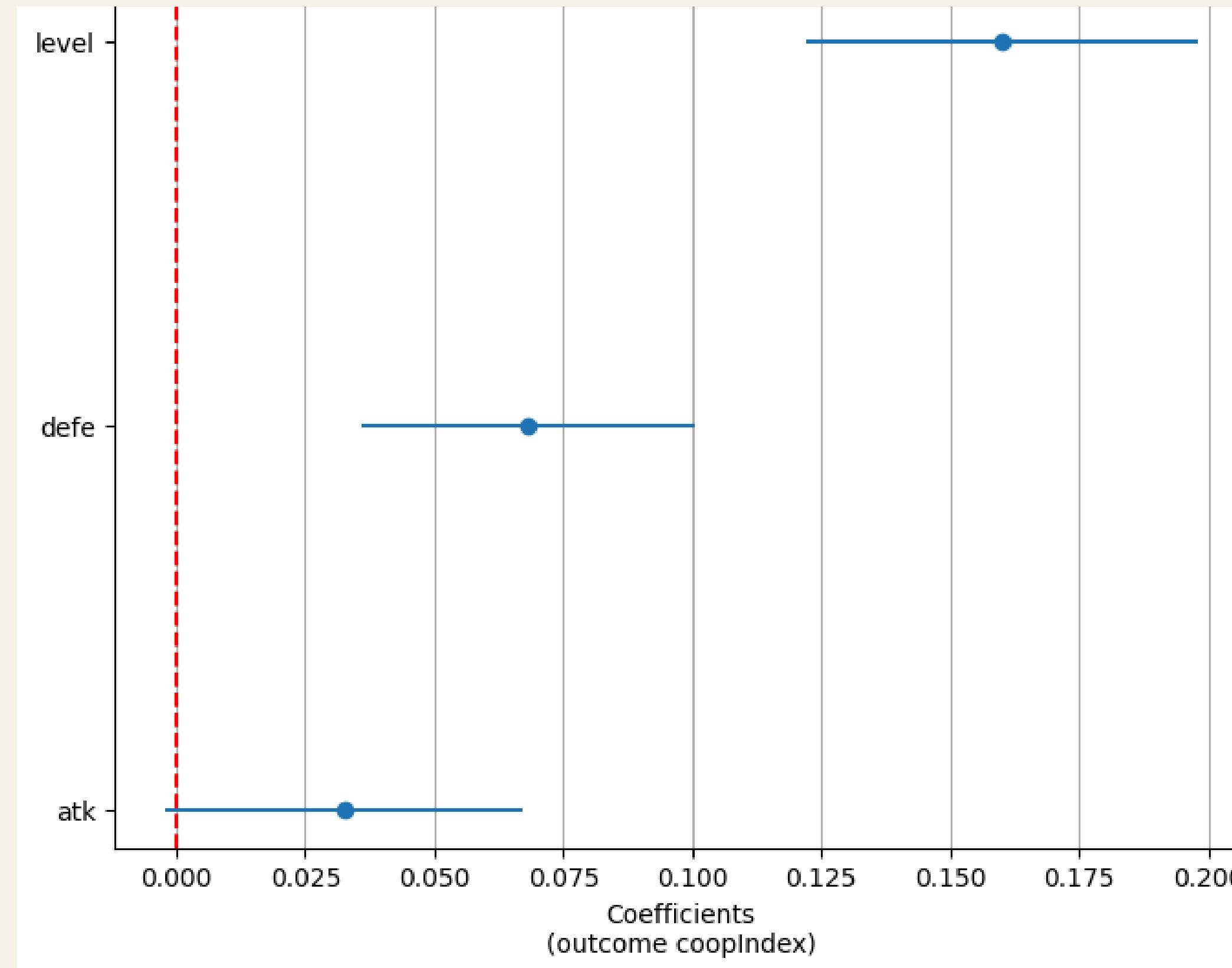
III - Data description

	atk	defe	level	coopIndex
10	500.0	1500.0	3.0	-285.375
12	800.0	1200.0	3.0	-240.750
16	300.0	200.0	2.0	-270.875
18	500.0	300.0	2.0	-310.125
26	1600.0	1600.0	4.0	10.125
...
13611	1000.0	1000.0	4.0	-305.250
13612	800.0	1600.0	4.0	-305.250
13613	1300.0	1800.0	5.0	-309.250
13614	0.0	2000.0	4.0	46.750
13615	1900.0	0.0	4.0	-305.125
7613 rows × 4 columns				



IV - Data Modeling

$$coopIndex_i = \beta_1 Atk_i + \beta_2 Defe_i + \beta_3 Level_i + \epsilon_i$$



V- CONCLUSION

THANKS FOR YOUR ATTENTION!

