

# Statistiche giganti v1.0

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## Heat map dei win rate

	attack	armoured	colossal	beast	female	warhammer	cart	jaw
attack	50.000000	97.600000	93.380000	100.000000	92.050000	61.510000	99.980000	81.550000
armoured	2.400000	50.000000	21.180000	99.780000	39.490000	11.240000	97.360000	24.560000
colossal	6.620000	78.820000	50.000000	99.980000	61.310000	9.150000	99.800000	38.560000
beast	0.000000	0.220000	0.020000	50.000000	0.360000	0.020000	25.900000	0.090000
female	7.950000	60.510000	38.690000	99.640000	50.000000	15.690000	97.430000	33.460000
warhammer	38.490000	88.760000	90.850000	99.980000	84.310000	50.000000	99.870000	70.720000
cart	0.020000	2.640000	0.200000	74.100000	2.570000	0.130000	50.000000	0.740000
jaw	18.450000	75.440000	61.440000	99.910000	66.540000	29.280000	99.260000	50.000000

La heat map va letta per righe, quindi ad esempio la prima riga indica il win rate del gigante d'attacco contro ciascuno dei giganti (contro se stesso ha ovviamente un win rate del 50%).

Il gradiente che dà il colore a ciascuna casella è stato calcolato per righe, quindi viene data una colorazione più scura alla cella che, nella riga, ha un valore più alto (indicando quindi che contro quel particolare gigante, si ha un win rate più alto).

### N.B

*I win rate sono stati calcolati su duelli "base", senza quindi considerare alcuna abilità speciale. Per questa ragione il gigante femmina, la cui principale forza nei combattimenti risiede nell'abilità passiva delle arti marziali, ha dei win rate più bassi degli altri giganti di tipo dps. Inoltre, il gigante martello è stato sempre fatto combattere con il martello (essendo l'arma più OP che può scegliere).*

## Lista completa degli indicatori

Di seguito vengono riportati tutti gli indicatori aggregati calcolati durante 10,000 duelli per ciascuna coppia di giganti.

### Attack Titan

	win_ratio	duel_mean_damage	hit_ratio	mean_turns_to_win
attack_titan	97.6	59.6963	40.191007	5.02418
armoured_titan	2.4	19.2775	50.943843	6.70000

	win_ratio	duel_mean_damage	hit_ratio	mean_turns_to_win
Attack Titan	93.38	78.8057	75.548537	4.355965
Colossal Titan	6.62	25.7336	60.782294	4.555891

	win_ratio	duel_mean_damage	hit_ratio	mean_turns_to_win
Attack Titan	100.0	40.0000	59.743640	2.5615
Beast Titan	0.0	5.2081	48.795628	NaN

	win_ratio	duel_mean_damage	hit_ratio	mean_turns_to_win
Female Titan	7.95	23.04	52.700463	3.818868
Attack Titan	92.05	39.04	50.635237	2.882455

	win_ratio	duel_mean_damage	hit_ratio	mean_turns_to_win
Warhammer Titan	38.49	35.0803	42.387335	2.914523
Attack Titan	61.51	42.0690	53.972912	3.161762

	win_ratio	duel_mean_damage	hit_ratio	mean_turns_to_win
<b>Cart Titan</b>	0.02	7.6576	53.175348	4.500000
<b>Attack Titan</b>	99.98	39.9988	59.902758	2.556811

	win_ratio	duel_mean_damage	hit_ratio	mean_turns_to_win
<b>Jaw Titan</b>	18.45	28.6500	51.778700	3.473713
<b>Attack Titan</b>	81.55	42.2128	51.906967	3.054077

## Armoured Titan

	win_ratio	duel_mean_damage	hit_ratio	mean_turns_to_win
attack_titan	97.6	59.6963	40.191007	5.02418
armoured_titan	2.4	19.2775	50.943843	6.70000

	win_ratio	duel_mean_damage	hit_ratio	mean_turns_to_win
Armoured Titan	21.18	50.6968	70.994820	13.809726
Colossal Titan	78.82	56.8701	45.450546	10.420959

	win_ratio	duel_mean_damage	hit_ratio	mean_turns_to_win
Armoured Titan	99.78	39.9799	55.034153	8.553518
Beast Titan	0.22	15.0217	29.192597	13.545455

	win_ratio	duel_mean_damage	hit_ratio	mean_turns_to_win
Female Titan	60.51	51.8906	36.322330	7.824822
Armoured Titan	39.49	30.0782	47.550344	7.878450

	win_ratio	duel_mean_damage	hit_ratio	mean_turns_to_win
Warhammer Titan	88.76	57.5725	25.721275	6.048220
Armoured Titan	11.24	24.5824	49.136358	8.793594

	win_ratio	duel_mean_damage	hit_ratio	mean_turns_to_win
Cart Titan	2.64	22.7795	34.093075	11.140152
Armoured Titan	97.36	39.7250	55.052068	8.426869

	win_ratio	duel_mean_damage	hit_ratio	mean_turns_to_win
Jaw Titan	75.44	55.4314	35.771335	7.229984
Armoured Titan	24.56	28.8786	48.836743	8.226384

## Colossal Titan

	win_ratio	duel_mean_damage	hit_ratio	mean_turns_to_win
Attack Titan	93.38	78.8057	75.548537	4.355965

Colossal Titan	6.62	25.7336	60.782294	4.555891
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	win_ratio	duel_mean_damage	hit_ratio	mean_turns_to_win
Armoured Titan	21.18	50.6968	70.994820	13.809726

Colossal Titan	78.82	56.8701	45.450546	10.420959
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	win_ratio	duel_mean_damage	hit_ratio	mean_turns_to_win
Beast Titan	0.02	3.6775	63.145688	13.000000

Colossal Titan	99.98	39.9996	64.867524	5.690138
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	win_ratio	duel_mean_damage	hit_ratio	mean_turns_to_win
Female Titan	38.69	58.7617	71.356168	6.766089

Colossal Titan	61.31	34.7983	57.150453	5.239928
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	win_ratio	duel_mean_damage	hit_ratio	mean_turns_to_win
Warhammer Titan	90.85	77.8665	60.830423	4.346065

Colossal Titan	9.15	26.0094	60.612726	5.042623
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	win_ratio	duel_mean_damage	hit_ratio	mean_turns_to_win
Cart Titan	0.2	12.4303	67.683804	12.100000

Colossal Titan	99.8	39.9863	64.778031	5.686172
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	win_ratio	duel_mean_damage	hit_ratio	mean_turns_to_win
Jaw Titan	61.44	69.3704	70.801474	6.113118

Colossal Titan	38.56	34.5706	58.109035	5.386670
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## Beast Titan

	win_ratio	duel_mean_damage	hit_ratio	mean_turns_to_win
Attack Titan	100.0	40.0000	59.743640	2.5615

Beast Titan	0.0	5.2081	48.795628	NaN
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	win_ratio	duel_mean_damage	hit_ratio	mean_turns_to_win
Armoured Titan	99.78	39.9799	55.034153	8.553518

Beast Titan	0.22	15.0217	29.192597	13.545455
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	win_ratio	duel_mean_damage	hit_ratio	mean_turns_to_win
Beast Titan	0.02	3.6775	63.145688	13.000000

Colossal Titan	99.98	39.9996	64.867524	5.690138
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	win_ratio	duel_mean_damage	hit_ratio	mean_turns_to_win
Female Titan	99.64	39.966	55.197942	4.132878

Beast Titan	0.36	9.233	44.192169	6.138889
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	win_ratio	duel_mean_damage	hit_ratio	mean_turns_to_win
Warhammer Titan	99.98	39.9980	44.865160	2.743349

Beast Titan	0.02	5.7685	48.086735	6.000000
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	win_ratio	duel_mean_damage	hit_ratio	mean_turns_to_win
Cart Titan	74.1	36.6207	51.094151	8.317679

Beast Titan	25.9	26.7784	47.476113	9.338224
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	win_ratio	duel_mean_damage	hit_ratio	mean_turns_to_win
Jaw Titan	99.91	39.9940	55.113380	3.758783

Beast Titan	0.09	8.2744	46.351384	7.000000
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## Female Titan

	win_ratio	duel_mean_damage	hit_ratio	mean_turns_to_win
Female Titan	7.95	23.04	52.700463	3.818868

Attack Titan	92.05	39.04	50.635237	2.882455
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	win_ratio	duel_mean_damage	hit_ratio	mean_turns_to_win
Female Titan	60.51	51.8906	36.322330	7.824822

Armoured Titan	39.49	30.0782	47.550344	7.878450
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	win_ratio	duel_mean_damage	hit_ratio	mean_turns_to_win
Female Titan	38.69	58.7617	71.356168	6.766089

Colossal Titan	61.31	34.7983	57.150453	5.239928
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	win_ratio	duel_mean_damage	hit_ratio	mean_turns_to_win
Female Titan	99.64	39.966	55.197942	4.132878

Beast Titan	0.36	9.233	44.192169	6.138889
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	win_ratio	duel_mean_damage	hit_ratio	mean_turns_to_win
Female Titan	15.69	25.2237	51.499610	4.444232

Warhammer Titan	84.31	37.1219	37.282931	2.977346
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	win_ratio	duel_mean_damage	hit_ratio	mean_turns_to_win
Cart Titan	2.57	13.5779	48.512707	5.264591

Female Titan	97.43	39.7495	55.135734	4.125937
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	win_ratio	duel_mean_damage	hit_ratio	mean_turns_to_win
Jaw Titan	66.54	34.6137	47.555941	3.766005

Female Titan	33.46	30.9128	50.460013	4.237597
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## Warhammer Titan

	win_ratio	duel_mean_damage	hit_ratio	mean_turns_to_win
Warhammer Titan	38.49	35.0803	42.387335	2.914523
Attack Titan	61.51	42.0690	53.972912	3.161762

	win_ratio	duel_mean_damage	hit_ratio	mean_turns_to_win
Warhammer Titan	88.76	57.5725	25.721275	6.048220
Armoured Titan	11.24	24.5824	49.136358	8.793594

	win_ratio	duel_mean_damage	hit_ratio	mean_turns_to_win
Warhammer Titan	90.85	77.8665	60.830423	4.346065
Colossal Titan	9.15	26.0094	60.612726	5.042623

	win_ratio	duel_mean_damage	hit_ratio	mean_turns_to_win
Warhammer Titan	99.98	39.9980	44.865160	2.743349
Beast Titan	0.02	5.7685	48.086735	6.000000

	win_ratio	duel_mean_damage	hit_ratio	mean_turns_to_win
Female Titan	15.69	25.2237	51.499610	4.444232
Warhammer Titan	84.31	37.1219	37.282931	2.977346

	win_ratio	duel_mean_damage	hit_ratio	mean_turns_to_win
Cart Titan	0.13	8.2930	52.078088	6.769231
Warhammer Titan	99.87	39.9834	44.929757	2.735256

	win_ratio	duel_mean_damage	hit_ratio	mean_turns_to_win
Jaw Titan	29.28	31.3962	50.021736	4.076844
Warhammer Titan	70.72	39.2790	39.250833	3.191176



## Cart Titan

	win_ratio	duel_mean_damage	hit_ratio	mean_turns_to_win
<b>Cart Titan</b>	0.02	7.6576	53.175348	4.500000
<b>Attack Titan</b>	99.98	39.9988	59.902758	2.556811

	win_ratio	duel_mean_damage	hit_ratio	mean_turns_to_win
<b>Cart Titan</b>	2.64	22.7795	34.093075	11.140152
<b>Armoured Titan</b>	97.36	39.7250	55.052068	8.426869

	win_ratio	duel_mean_damage	hit_ratio	mean_turns_to_win
<b>Cart Titan</b>	0.2	12.4303	67.683804	12.100000
<b>Colossal Titan</b>	99.8	39.9863	64.778031	5.686172

	win_ratio	duel_mean_damage	hit_ratio	mean_turns_to_win
<b>Cart Titan</b>	74.1	36.6207	51.094151	8.317679
<b>Beast Titan</b>	25.9	26.7784	47.476113	9.338224

	win_ratio	duel_mean_damage	hit_ratio	mean_turns_to_win
<b>Cart Titan</b>	2.57	13.5779	48.512707	5.264591
<b>Female Titan</b>	97.43	39.7495	55.135734	4.125937

	win_ratio	duel_mean_damage	hit_ratio	mean_turns_to_win
<b>Cart Titan</b>	0.13	8.2930	52.078088	6.769231
<b>Warhammer Titan</b>	99.87	39.9834	44.929757	2.735256

	win_ratio	duel_mean_damage	hit_ratio	mean_turns_to_win
<b>Jaw Titan</b>	99.26	39.9141	55.083001	3.725871
<b>Cart Titan</b>	0.74	11.6193	50.033414	5.756757

## Jaw Titan

	win_ratio	duel_mean_damage	hit_ratio	mean_turns_to_win
<b>Jaw Titan</b>	18.45	28.6500	51.778700	3.473713
<b>Attack Titan</b>	81.55	42.2128	51.906967	3.054077

	win_ratio	duel_mean_damage	hit_ratio	mean_turns_to_win
<b>Jaw Titan</b>	75.44	55.4314	35.771335	7.229984
<b>Armoured Titan</b>	24.56	28.8786	48.836743	8.226384

	win_ratio	duel_mean_damage	hit_ratio	mean_turns_to_win
<b>Jaw Titan</b>	61.44	69.3704	70.801474	6.113118
<b>Colossal Titan</b>	38.56	34.5706	58.109035	5.386670

	win_ratio	duel_mean_damage	hit_ratio	mean_turns_to_win
<b>Jaw Titan</b>	99.91	39.9940	55.113380	3.758783
<b>Beast Titan</b>	0.09	8.2744	46.351384	7.000000

	win_ratio	duel_mean_damage	hit_ratio	mean_turns_to_win
<b>Jaw Titan</b>	66.54	34.6137	47.555941	3.766005
<b>Female Titan</b>	33.46	30.9128	50.460013	4.237597

	win_ratio	duel_mean_damage	hit_ratio	mean_turns_to_win
<b>Jaw Titan</b>	29.28	31.3962	50.021736	4.076844
<b>Warhammer Titan</b>	70.72	39.2790	39.250833	3.191176