# RiichiOut Ranking System 

## Ranking $=\Sigma\left[T_{\text {Rank }} *\left(T_{\text {Weight }} *\right.\right.$ Weight Modifier $\left.)\right]$ with $\Sigma T_{\text {Weight }} \leq 1000$

$\mathrm{T}_{\text {Rank }}=$ Tournament Rank (min 100, max 1000)

$$
\mathrm{T}_{\text {Rank }}=\left(\frac{\mathrm{T}_{\text {Players }}-\text { Placement }}{\mathrm{T}_{\text {Players }}} \times 800 \quad\right)+100+\mathrm{T}_{\text {Bonus }}
$$

$T_{\text {Players }}=$ Tournament Players
$\mathrm{T}_{\text {Bonus }}=$ Placement bonus for Top 4 finishers

| $1^{\text {st }}$ | $2^{\text {nd }}$ | $3^{\text {rd }}$ | $4^{\text {th }}$ |
| :---: | :---: | :---: | :---: |
| 100 | 50 | 30 | 20 |

Players who withdraw or fail to finish a tournament are assumed to have placed last.
*Staff will receive a $T_{\text {Rank }}$ of 500 for services beneficial to the mahjong community
$T_{\text {Weight }}=$ Tournament Weight $(\max 750)$
$\mathrm{T}_{\text {Weight }}=\mathrm{T}_{\text {Size }}+\mathrm{T}_{\text {Length }}+\mathrm{T}_{\text {Club }}+\mathrm{C}_{\text {Awesome }}$
$\mathrm{T}_{\text {Size }}=$ Tournament Size $(\max 360)$

| $\mathrm{T}_{\text {size }}$ | $=\quad \mathrm{T}_{\text {Attendees }}$ | $+\quad 3^{*}\left(T_{\text {Attendees }}-20\right)$ | + | $\left(T_{\text {Attendees }}-80\right)$ |
| :---: | :---: | :---: | :---: | :---: |
|  | For $T_{\text {Attendees }}=$ Any | For $20 \leq T_{\text {Attendees }} \leq 80$ | For $80 \leq T_{\text {Attendees }} \leq 240$ |  |

$\mathrm{T}_{\text {Attendees }}=$ Tournament Attendees
$\mathrm{T}_{\text {staff }}=$ Tournament Staff (non-playing)
$\mathrm{T}_{\text {Attendees }}=\mathrm{T}_{\text {Players }}+\mathrm{T}_{\text {Staff }}$

Note: $T_{\text {staff }} \leq\left(T_{\text {Players }} * 10 \%\right)$
$T_{\text {Length }}=$ Tournament Size $(\max 280)$

| $\mathrm{T}_{\text {Length }}=60+20^{*}\left(T_{\text {Hanchan }}-4\right)+10^{*}\left(T_{\text {Hanchan }}-12\right)$ |  |
| ---: | :--- |
| For $4 \leq T_{\text {Hanchan }} \leq 12$ | For $12 \leq T_{\text {Hanchan }} \leq 18$ |

$\mathrm{T}_{\text {Hanchan }}=$ Tournament Hanchan (min 4, max 18)

- Includes both preliminary and playoff hanchans played
- Amount of playoff hanchan can count up to $1 / 3$ of $T_{\text {Hanchan }}$
- 2 East-only games $=1$ hanchan

Tclub $=$ Club Diversity $(\max 100)$
$\mathrm{T}_{\text {club }}=(5$ * Unique RO Clubs participating)
$\mathrm{C}_{\text {Awesome }}=$ Awesome Constant $=10$

## Modifier $=$ Tournament Aging Modifier

| Aging Schedule (in years) | Modifier |
| :---: | :---: |
| $<1.5$ years old | $100 \%$ |
| $1.5-3$ years old | $75 \%$ |
| $3-4$ years old | $50 \%$ |
| $4-5$ years old | $25 \%$ |
| $5-10$ years old | $5 \%$ |
| $>10$ years old | $1 \%$ |

*Due to the ongoing Coronavirus pandemic, aging for tournaments 1.5-3 years old is suspended.
For purposes of aging, tournaments are considered to have an effective date of the beginning of a given quarter (January 1, April 1, July 1, October 1)
$\Sigma$ Tweight for any given club's tournaments, adjusted for Weight Modifiers $\leq 350$

- Tournaments are pro-rated in order to reach a club's limit
- National tournaments do not count towards a club's limit


## Examples

1) Aaliyah has the following tournament results from different clubs all within the past year:

- A: Ranking $=800$, Weight $=500$
- B: Ranking $=600$, Weight $=300$
- C: Ranking $=1000$, Weight $=300$
- D: Ranking $=700$, Weight $=100$

Starting from the best results we have:
Ranking $=(1000 * 300)+(800 * 500)+(700 * 100)+(600 * 100)=830,000$
The last tournament is only weighted at 100 since that is what was left before hitting the cap.
2) Ben has the following tournament results from the following clubs all within the past year:

- W: Ranking $=800$, Weight $=500$ (held by Club AAA)
- X: Ranking = 600, Weight $=300$ (held by Club BBB)
- Y: Ranking = 1000, Weight $=300$ (held by Club AAA)
- Z: Ranking = 700, Weight = 100 (held by Club DDD)

Starting from the best results we have:
Ranking $=(1000 * 300)+(800 * 50)+(700 * 100)+(600 * 300)=590,000$
Tournament $W$ is weighted at 50 since it runs up against an individual club cap of 350 weight.

