



Search

START A WIKI

SIGN IN

Explore

Fan Central

CURRENT



ADVERTISEMENT

in: [Updateme](#), [Damage 3.0](#), [Mechanics](#), [Update 36](#)

Damage/Calculation

 [4](#) | [EDIT](#)< [Damage](#)

Damage Calculation

The following explains how a certain amount of damage of one type turns into actual inflicted damage to a target, considering type modifiers and armor. Faction modifiers, body part modifiers, critical hit and stealth modifiers, as well as Warframe debuffs, are disregarded for now, since all of these are independent of damage types.

Quantization

Dealing damage is quantized. Meaning, rather than the damage being applied smoothly, physical and elemental damages round to the nearest multiple of 1/16th of their attack's base damage, before being multiplied further.^{[1][2]} By using this method of quantization, the precision of data is reduced, thereby saving storage space and improving the efficiency of computer operations. Rather than communicating a lengthy integer of each element's value, only one "Total" integer along with short representative multiples of 1/16th need to be communicated.

$$\text{Scale} = \frac{\text{Modded Base Damage}}{16}$$

WARFRAME
WikiSIGN
IN



START A WIKI

SIGN IN

Explore

Fan Central

CURRENT



by the scale. This quantized value will be used in the mission's damage calculations. The final damage seen by in-game damage pop-ups are further rounded to a whole number.

$$\text{Quantized Damage Type Value} = \text{Round}\left(\frac{\text{Total Damage Type Value}}{\text{Scale}}\right) \times \text{Scale}$$

1. For example, if you have a weapon with a listed damage distribution of 30 Impact, 30 Puncture, and 40 Slash, the total damage is **100**.
2. The value of a scale will then be $100 \div 16 = 6.25$.
3. The amount of Impact damage dealt by the weapon will then be $30 \div 6.25 = 4.8$ rounded to the nearest whole number, multiplied by the scale: $5 \times 6.25 = 31.25$. This process is applied to Puncture and Slash as well, yielding **31.25** and **37.5** respectively.
4. As such, when damaging a **Charger**, which has a +50% bonus to Slash damage due to having **Infested** health, the total damage dealt to the Charger will then be $31.25 + 31.25 + 37.5 \times (1 + 50\%) = 118.75$ (the game will display the rounded value of 119).
- Note that while in this case the weapon's total damage after the conversion remained the same (at 100), mixed-type weapon damage is frequently **gained** or **lost** by the conversion.

Damage mods such as **Hornet Strike**, Faction mods such as **Bane of Grineer**, and any other multipliers only multiply final quantized values and do not affect the scale or damage composition.

If a physical or elemental mod is applied, their bonuses are also quantized.

1. The value of the example scale will still be $100 \div 16 = 6.25$. Elemental and Physical bonuses do not affect the scale.
2. If **Maim** was used, for example, the Slash bonus calculates separately using the **base portion** of slash, and adds to the total: $\text{round}(40 \times 1.2 \div 6.25) \times 6.25 = 50$.
3. The damage distribution would then be **31.25** Impact, **31.25** Puncture, and $37.5 + 50 = 87.5$ Slash.
4. Elemental bonuses calculate using the **full** base damage, are rounded to the nearest 1/16th of the base damage and added to the total.
5. Elements formed by a sum of mods and bonuses quantize their sum alone. For

WARFRAME
Wiki

SIGN IN



START A WIKI

SIGN IN

Explore

Fan Central

CURRENT



each rounded to the nearest 1/16th of base damage, and finally added to the quantized total.

- Applying the math fully: Nagantaka Prime with Cryo Rounds, Malignant Force, Hellfire, Piercing Caliber and Gas Valence Formation

in that order deals:

- Scale (S) = $173 \div 16 = 10.8125$
- Elemental and Physical Quantization:

- round[$((90\% \text{ Cold} + 60\% \text{ Toxin}) \times 173) \div S$] $\times S = 259.5$
- round[$(90\% \text{ Heat} \times 173) \div S$] $\times S = 151.375$
- round[$(120\% \text{ Puncture} \times 15.6 \text{ Base Puncture}) \div S$] $\times S = 21.625$
- round[$(200\% \text{ Gas} \times 173) \div S$] $\times S = 346$

- Base Quantization:

- round[$1.7 \text{ Impact} \div S$] $\times S = 0$
- round[$15.6 \text{ Puncture} \div S$] $\times S = 10.8125$
- round[$155.7 \text{ Slash} \div S$] $\times S = 151.375$

- **Total:** $0 \text{ Impact} + 10.8125 \text{ Puncture} + 151.375 \text{ Slash} + 259.5 \text{ Viral} + 151.375 \text{ Heat} + 21.625 \text{ Puncture} + 346 \text{ Gas} = 940.6875$

Damage

- Note that the Impact value of Nagantaka Prime is so low that it will not register during attacks, rounding to 0 in the process.
- Applying +Damage, +Faction or any other non-elemental bonus multiplies both the base value of rounding numerator and Scale of rounding denominator, and therefore is a simple multiplier to any quantized total.

Calculating damage with quantization can be simplified to the following steps.

- Get Scale
- Quantize Elements
- Quantize IPS
- Add above
- Apply all other multipliers



WARFRAME
Wiki



SIGN IN

[START A WIKI](#)[SIGN IN](#)[Explore](#)[Fan Central](#)[CURRENT](#)

has been used to determine damage compositions not disclosed in-game, so they can be presented here in the wiki.

Unarmored Enemies

Against **unarmored** enemies or when applying [True](#) damage, the formula is simply:

$$\text{Inflicted Damage} = \text{Starting Damage}(1 + \text{Health-type Modifier})$$

- **Inflicted Damage (ID)** is the final damage result of a particular damage type.
- **Starting Damage (SD)** is the initial damage value of a particular damage type, modded or not.
- **Health-type Modifier (HM)** is the damage modifier against that health type (may be shields or health).

To make it independent from the amount of base damage:

$$\text{Damage Modifier} = 1 + \text{Health-type Modifier}$$

$$\text{Inflicted Damage} = \text{Starting Damage} \times \text{Damage Modifier}$$

- **Damage Modifier (DM)** is the total damage modifier. An amount of damage of that type (SD) against that enemy will then always be multiplied with this factor (DM).

Armored Enemies

Against **armored** enemies, the formula is:

$$DM = \frac{300}{300 + AR(1 - AM)} (1 + AM)(1 + HM)$$

Where in addition to the previous definitions, **AM** is the damage modifier against the armor type and **AR** is the target's armor after all reductions from debuffs (e.g.

[Corrosive Projection](#), [Corrosive](#) procs, and [Terrify](#)).

Note that from the formula above damage type modifiers directly affect the value of the armor as well as damage. Positive armor modifiers will reduce the effective armor by the percentage value, which is commonly thought of as that damage type essentially ignoring some of the armor. Conversely, negative armor modifiers will increase the effective armor by the magnitude of the percent value. Because of this, damage values



WARFRAME
Wiki

[SIGN IN](#)



START A WIKI

SIGN IN

Explore

Fan Central

CURRENT



It is important to emphasize that type modifiers against armor work in two ways here:

- Mitigate or enhance a percentage of the target's armor (represented by $AR(1 - AM)$ in the above equation)
- Increase or decrease the damage dealt in the same way as a type modifier against the hit points would do (represented by $(1 + AM)$)

Practically speaking, this means that **Corrosive** damage is only reduced by 25% of a target's whole **Ferrite Armor** **and** the base damage is increased by +75%. The formula also causes a massive difference between a medium and a large reduction: 75% reduction ($\frac{1}{4}$ original armor) is essentially twice more than 50% reduction ($\frac{1}{2}$ original armor). **Thus, having the damage type with the highest appropriate bonus is far more important against armored than unarmored targets.**

Comparing Damage Type Modifiers on Armored Enemies

Since certain damage types can ignore armor while being reduced by them, a simple $(1 + HM) \times (1 + AM)$ calculation yields incorrect results. For example, the following damage type pairings deviate from that simplified calculation (ignoring status effects):

- Against **ferrite-armored cloned flesh** (e.g. **Heavy Gunner**):
 - Corrosive** (+75% against Ferrite Armor) always surpasses **Viral** (+75% against Cloned Flesh).
 - Puncture** (+50% against Ferrite Armor) surpasses **Viral** (+75% against Cloned Flesh) above 120 armor.
- Against **alloy-armored cloned flesh** (e.g. **Bombard**):
 - Radiation** (+75% against Alloy Armor) always surpasses **Viral** (+75% against Cloned Flesh).
 - Puncture** (+15% against Alloy Armor) surpasses **Heat** (+25% against Cloned Flesh) above 342 armor.
 - Cold** (+25% against Alloy Armor) always surpasses **Heat** (+25% against Cloned Flesh).
 - However, neither **Puncture** (+15% against Alloy Armor) nor **Cold** (+25% against Alloy Armor) ever surpass **Viral** (+75% against Cloned Flesh).

This just shows that one cannot easily compare damage type modifiers against an armor class to those against health classes, and those against armor are, at similar

WARFRAME
WikiSIGN
IN



START A WIKI

SIGN IN

Explore

Fan Central

CURRENT



$$\text{benefit}_{AM} = \frac{2 + \frac{300}{AR}}{\frac{1 + \frac{300}{AR}}{AM} - 1} = AM + \frac{AR(1 + AM)}{300 + AR(1 - AM)} AM$$

Exact relative damage bonus (i.e. benefit) of a non-zero armor modifier at a given target net armor value.

The relative damage bonus due to a damage type's armor modifier against armored health compared to no modifier can be quantified using the above expression. This is only defined for armor values greater than 0 because at 0, the armor type of the target is lost, such that the effect of the damage type's armor modifier is lost as well. Hence, the benefit (relative damage bonus) of the armor modifier at 0 armor is always 0.

$$\lim_{AR \rightarrow \infty} (\text{benefit}_{AM}) = \frac{2}{\frac{1}{AM} - 1} = \frac{2AM}{1 - AM}$$

Limit for the benefit as armor approaches infinity (300/AR term resolves to 0).

An interesting property of this benefit function is that, while one would intuitively assume the benefit of the armor modifier gets always greater the greater the target's armor, this benefit actually converges against a limit as armor approaches infinity if the armor modifier is smaller than one (which is true for all damage types against all armor types with the sole exception of True damage). Since this limit is only determined by the armor modifier of the damage type itself, it is a practical metric to gauge the relative effectiveness of damage types for long endless missions.

Below is a table of the actual values for all currently implemented armor modifiers, illustrating the growing returns of greater armor modifiers, which may be compared to the behavior of Corrosive Projection aura stacking.

Codex Label	+++	++	+	+	N/A	-	-	--
AM	+0.75	+0.5	+0.25	+0.15	+0	-0.15	-0.25	-0.5
lim as fraction	+6	+2	+2/3	+6/17	+0	-6/23	-2/5	-2/3
lim in %	+600	+200	+66.67	+35.29	+0	-36.09	-40	-66.67

WARFRAME
Wiki

SIGN IN



START A WIKI

SIGN IN

A generalized version of the damage modifier formula is:

Explore

Fan Central

CURRENT



$$DM = \frac{300}{300 + AR(1 - AM)} \prod_i^k (1 + M_i)$$

Generalized damage modifier formula for a specific damage type. The term following the capital pi operator (\prod) simply means that this is a product, so all these bonuses stack multiplicatively. The notation replaces $(1 + M_1) \times (1 + M_2) \times \dots$.

AR is still the target's armor *after* all debuffs (e.g. [Corrosive Projection](#), [Corrosive](#) procs, and [Terrify](#)) have been applied, how these debuffs work is explained on the [Armor](#) page. **AM** is the damage type modifier against the armor class for a specific damage type. M_i for all indices i are all independent modifiers that are active, **stacking multiplicatively with each other and are relative increases in damage** (e.g. 2.5x damage would be represented as +150% or +1.5x). These include, but not limited to:

- Damage type modifiers against armor and health type
- [Critical hit modifier](#) (on average: critical chance \times critical damage multiplier)
- [Stealth bonus](#) (only on normal attacks, the special melee [stealth attacks](#) are classified as [Cinematic](#) damage type and disregard armor)
- [Enemy body part and hit zone modifiers](#) (e.g. headshots)
- Damage multipliers against a particular faction from [Faction Damage Mods](#), [Sentient Scalpel](#), or [Roar](#)
- Damage multipliers from certain damage buffing [Warframe](#) abilities like [Eclipse](#) (all independent of each other)
- Damage multipliers from certain mods like [Synth Charge](#) and [Charged Chamber](#) (all independent of each other)
- Damage multipliers from certain Warframe passives like [Garuda](#)'s or [Vauban](#)'s (all independent of each other)
- Damage multiplier from [Sniper Rifle](#)'s shot combo counter
- Damage multiplier from [Melee Combo](#) for heavy attacks
- Damage multipliers from [Stance](#) combos
- Damage multiplier based on the [Follow Through](#) stat of melee weapons
- Damage multiplier from [Unairu Wisp](#) and [Virtuos Fury](#)
- Damage multiplier from [Void Strike](#)
- [Damage Falloff](#)
- Special [damage resistances](#) that scale based on theoretical damage per second

WARFRAME
WikiSIGN
IN



START A WIKI

SIGN IN

Explore

Fan Central

CURRENT



Final Calculations

Modded Stats

$$\text{Modded Stat} = \text{Base Stat} \times (1 + \text{Stat Bonuses})$$

Basic formula for calculating modded stats (e.g. critical chance) with the exception of accuracy, reload time, and charge time.

$$\text{Modded Stat Time} = \frac{\text{Base Stat Time}}{(1 + \text{Stat Speed Bonuses})}$$

Formula for calculating modded reload time and charge time.

Total Damage

The damage numbers displayed in the in-game [arsenal](#) calculate total weapon damage as such:

$$\begin{aligned} \text{Arsenal Total Damage} &= \text{Base Damage} \\ &\times [1 + \text{Elemental Bonuses} \\ &+ \text{Unmodded Impact Distribution} \times \text{Impact Bonus} \\ &+ \text{Unmodded Puncture Distribution} \times \text{Puncture Bonus} \\ &+ \text{Unmodded Slash Distribution} \times \text{Slash Bonuses}] \\ &\times (1 + \text{Damage Bonuses}) \\ &\times [\text{Base weapon multishot} \times (1 + \text{Multishot Bonuses})] \end{aligned}$$

This arsenal damage is the average non-crit damage per shot, without [Faction Damage Bonus](#).

For melee weapons, remove multishot from the equation. It does not include Stance damage multipliers.



WARFRAME
Wiki



SIGN IN



START A WIKI

SIGN IN

$$\text{Total Inflicted Damage} = SD_1 \times DM_1 + \dots + SD_N \times DM_N$$

Explore

Where SD represents the modded value of a particular damage type and DM represents the damage modifier for a particular damage type using the generalized damage modifier formula.

Fan Central

CURRENT



Gun Damage Per Second

When comparing the performance of non-melee weapons, it may be useful to calculate their theoretical damage per second (DPS) (without accounting for status effects) using the following formulas:

Average Shot/Hit

Average shot or hit is the theoretical average damage dealt on a single button input if all projectiles hit the target.

$$\text{Normal Shot} = \text{Total Damage} \times [1 + (\lfloor \text{Modded Crit Chance} \rfloor \times (\text{Modded Crit Multipl}))]$$

In the case where modded critical chance is over 100%, the lowest crit tier possible will be considered a normal shot. (e.g. if a weapon has 250% crit chance, the 100% for an orange crit will be considered a normal shot)

Note that $\lfloor \quad \rfloor$ denotes a *flooring function* (rounding down)

$$\text{Critical Shot} = \text{Total Damage} \times [1 + (\lceil \text{Modded Crit Chance} \rceil \times (\text{Modded Crit Multipl}))]$$

In the case where modded critical chance is over 100%, the next crit tier possible will be considered a critical shot (e.g. if a weapon has 250% crit chance, the 50% for a red crit will be considered a critical shot)

Note that $\lceil \quad \rceil$ denotes a *ceiling function* (rounding up)

$$\text{Average Shot} = \text{Total Damage} \times (1 + \text{Modded Crit Chance} \times (\text{Modded Crit Multipl}))$$

The average damage dealt on a single button input if all projectiles hit the target.

Average Burst DPS

Average burst DPS is the theoretical damage a player does in a very short burst of time, or an extended period of time if ignoring time spent reloading/not firing their weapon.



WARFRAME
Wiki



SIGN
IN

[START A WIKI](#)[SIGN IN](#)

Explore

Fan Central

CURRENT



The lower the [Fire Rate](#), the more delay between charge shots. If attack is not a charge trigger type (charge time is 0), then effective fire rate equals modded fire rate.

$$\text{Number of Shots Per Magazine} = \frac{\text{Modded Mag Size}}{\text{Ammo Cost Per Shot}}$$

Not all weapons consume one ammo per shot; this is to account for cases such as [Continuous Weapons](#)

$$\text{Average Burst DPS} = \text{Avg. Shot} \times \text{Effective Fire Rate}$$

Average Sustained DPS

Average sustained DPS is the theoretical damage a player does over an extended period of time, accounting time spent reloading/not firing their weapon.

$$\text{Proportion of Time Spent Shooting vs. Reloading} = \frac{\text{Nur}}{\text{Effective Fire Rate} \times \text{Modded Mag Size}}$$

$$\text{Average Sustained DPS} = \text{Avg. Burst DPS} \times \text{Proportion of Time Spent Shooting vs. Reloading}$$

For the [Vectis](#) and [Vectis Prime](#) specifically, one (1) should be subtracted from the denominator to account for their lack of a [reload](#) delay.

For [Epitaph](#) specifically, ignore Modded Reload Time since it draws ammo directly from the full ammo pool similar to bows, but does not "reload" between shots like them.

Assumes that damage ramp up is at max for [Continuous Weapons](#).

Reload time is in seconds.

Reload time includes reload delay which is more prevalent for [Battery Weapons](#).

Reload delay for most weapons are negligible if not non-existent.

Melee Damage Per Second

When comparing the performance of melee weapons, it may be useful to calculate their theoretical damage per second (DPS) (without accounting for status effects) using the following formulas:



WARFRAME
Wiki

[SIGN IN](#)

[START A WIKI](#)[SIGN IN](#)[Explore](#)[Fan Central](#)[CURRENT](#)

(an orange crit will be considered a normal shot)

Note that $\lfloor \quad \rfloor$ denotes a [flooring function](#) (rounding down)

$$\text{Critical Hit} = \text{Total Damage} \times [1 + (\lceil \text{Modded Crit Chance} \rceil) \times (\text{Modded Crit Multiplier})]$$

In the case where modded critical chance is over 100%, the next crit tier possible will be considered a critical hit (e.g. if a weapon has 250% crit chance, the 50% for a red crit will be considered a critical shot)

Note that $\lceil \quad \rceil$ denotes a [ceiling function](#) (rounding up)

$$\begin{aligned}\text{Average Hit} &= \text{Average Combo Damage Multiplier} \\ &\times \text{Total Damage} \times (1 + \text{Modded Crit Chance} \times (\text{Modded Crit Multiplier}))\end{aligned}$$

The average damage dealt on the first enemy hit by melee attack, not accounting for Follow Through

See individual stance pages for average combo damage multipliers or go to [Stance#Comparison](#)

$$\text{Average DPS} = \frac{\text{Avg Hit} \times \text{Modded Attack Speed}}{\text{Base Combo Length}}$$

See individual stance pages for average base combo lengths or go to [Stance#Comparison](#)

Damage Over Time

$$\begin{aligned}\text{Modded Damage} &= \text{Modded Base Damage} \\ &\times \text{Modded Multishot} \\ &\times (1 + \text{Faction Damage Bonuses})\end{aligned}$$

Total modded damage calculations used for DoT ignores elemental and physical damage bonuses.

$$\text{Base Avg DoT} = \text{Modded Damage}$$



WARFRAME
Wiki



[SIGN
IN](#)



START A WIKI

SIGN IN

Without accounting multipliers of specific DoT.

Explore

Fan Central

CURRENT



$$\begin{aligned}\text{Avg Slash DoT} &= 0.35 \times \text{Base Avg DoT} \\ \text{Avg Electricity DoT} &= 0.5 \times (1 + \text{Electricity Bonuses}) \times \text{Base Avg DoT} \\ \text{Avg Heat DoT} &= 0.5 \times (1 + \text{Heat Bonuses}) \times \text{Base Avg DoT} \\ \text{Avg Toxin DoT} &= 0.5 \times (1 + \text{Toxin Bonuses}) \times \text{Base Avg DoT} \\ \text{Avg Gas DoT} &= 0.5 \times \text{Base Avg DoT}\end{aligned}$$

Individual calculations for each DoT proc. Keep in mind Slash DoT deals [Cinematic damage](#), ignoring armor.

$$\begin{aligned}\text{Total Avg DoT} &= (\text{Slash DoT} \times \text{Slash Distribution}) \\ &\quad + (\text{Electricity DoT} \times \text{Electricity Distribution}) + \dots \\ &\quad + (\text{Gas DoT} \times \text{Gas Distribution})\end{aligned}$$

Multiply each DoT with the respective damage distribution (i.e. damage type / total damage) and add them together

$$\begin{aligned}\text{Normal Total Avg DoT} &= \text{Total Avg DoT} \\ &\quad \times [1 + (\lfloor \text{Modded Crit Chance} \rfloor \times (\text{Modded Crit Multiplier})))]\end{aligned}$$

In the case where modded critical chance is over 100%, the lowest crit tier possible will be considered a normal shot. (e.g. if a weapon has 250% crit chance, the 100% for an orange crit will be considered a normal shot)

Note that $\lfloor \quad \rfloor$ denotes a [flooring function](#) (rounding down)

$$\begin{aligned}\text{Crit Total Avg DoT} &= \text{Total Avg DoT} \\ &\quad \times [1 + (\lceil \text{Modded Crit Chance} \rceil \times (\text{Modded Crit Multiplier})))]\end{aligned}$$

In the case where modded critical chance is over 100%, the next crit tier possible will be considered a critical shot (e.g. if a weapon has 250% crit chance, the 50% for a red crit will be considered a critical shot)

Note that $\lceil \quad \rceil$ denotes a [ceiling function](#) (rounding up)

$$\begin{aligned}\text{Avg Total Avg DoT} &= \text{Modded Status Chance} \\ &\quad \times \text{Total Avg DoT} \\ &\quad \times (1 + \text{Modded Crit Chance} \times (\text{Modded Crit Multiplier})))\end{aligned}$$

WARFRAME
Wiki

SIGN IN



START A WIKI

SIGN IN

Explore

Fan Central

CURRENT



Lifetime Damage

Lifetime damage is a derived damage stat that is based on the total amount of damage that a weapon can deal before it depletes its ammo reserve. [Melee](#) weapons, [Battery](#) [Weapons](#) or rechargeable weapons, and [Exalted Weapons](#) (assuming [Energy](#) is always restored) will deal infinite damage over their in-game use since they are always available and are not reliant on [ammo pickups](#) or [Squad Ammo Restores](#).

Average Lifetime Damage = Average Shot × Number of Shots Per Magazine × (

The average total damage dealt by a weapon without switching weapons or replenishing ammo.

References

1. Theroxenes (2018, March 2). *Internal rounding leading to unintended applied damage* (<https://forums.warframe.com/topic/928927-internal-rounding-leading-to-unintended-applied-damage/>). Warframe Forums. Accessed 2022-09-19. Archived (<https://web.archive.org/web/20220919171910/https://forums.warframe.com/topic/928927-internal-rounding-leading-to-unintended-applied-damage/>) from the original on 2022-09-19.
2. Theroxenes (2018, February 28). *Internal damage quantization or: Another way the arsenal is lying to you.* (https://www.reddit.com/r/Warframe/comments/809yaa/internal_damage_quantization_or_another_way_the/). Reddit. Accessed 2022-09-19. Archived (https://web.archive.org/web/20211124174002/https://www.reddit.com/r/Warframe/comments/809yaa/internal_damage_quantization_or_another_way_the/) from the original on 2021-11-24.

See Also

- [Category:User_Research_\(Damage\)](#)

Damage Mechanics

Edit

[Collapse]

Attack Speed • Buff & Debuff • Critical Hit • Damage (Faction)

WARFRAME
WikiSIGN
IN



START A WIKI

SIGN IN

Explore

Fan Central

CURRENT



[Armor](#) • [Damage Attenuation](#) • [Damage Reduction](#) • [Health](#) •
[\(Healing\)](#) • [Invulnerability](#) • [Negative Damage Type Modifier](#) •
[Overguard](#) • [Shield](#)

Damage Types

Physical (IPS)		Impact	Puncture	Slash	
Elemental	Primary (HCET)	Heat	Cold	Electricity	Toxin
	Secondary	Blast	Corrosive	Gas	Magnetic
Special		Tau	True	Void	
Hidden/Internal		Cinematic • Energy Drain • Shield Drain			

Status Effects

Physical		Knockback	Weakened	Bleed	
Elemental	Primary	Ignite	Freeze	Tesla Chain	Poison
	Secondary	Detonate	Corrosion	Gas Cloud	Disrupt
Special		Status Vulnerability		Bullet Attractor	
Effect Only		Big Stagger	Disarmed	Impair (PvP only)	
		Knockdown	Lifted	Microwave	Parried
		Ragdoll	Silence	Sleep	Slow
					Stun

Shield, Armor, and Health Classes

Tenno	Tenno
Grineer	Grineer • Kuva Grineer
Corpus	Corpus • Corpus Amalgam
Infested	Infested • Infested Deimos
Corrupted	Orokin
Sentient	Sentient
Narmer	Narmer
Zariman	Zariman
The Murmur	The Murmur
Techrot	Techrot
Scaldra	Scaldra





START A WIKI

SIGN IN

Explore

Fan Central

CURRENT



Game System Mechanics		Edit	[Collapse]
Currencies	Credits • Orokin Ducats • Endo • Platinum • Aya • Regal Aya • Standing		
General	Basics	Arsenal • Codex • Daily Tribute • Empyrean • Foundry • Market • Mastery Rank • Nightwave • Orbiter • Player Profile • Reset • Star Chart	
	Lore	Alignment • Fragments • Leverian • Quest	
	Factions	Corpus • Grineer • Infested • Orokin • Sentient • Syndicates • Tenno	
	Social	Chat • Clan • Clan Dojo • Leaderboards • Trading	
	Squad	Host Migration • Inactivity Penalty • Matchmaking	
	Base of Operations	Backroom • Clan Dojo • Dormizone • Drifter's Camp • Orbiter	
	Special	1999 Calendar • Kinemantik Instant Messaging	
Gameplay	Basics	Affinity • Buff & Debuff • Death • Hacking • Invisible • Maneuvers • One-Handed Action • Open World • Pickups • Radar • Stealth • Tile Sets • Void Relic • Waypoint	
	Damage Mechanics	Critical Hit • Damage • Damage Redirection • Damage Reduction • Damage Reflection • Damage Type Modifier • Damage Vulnerability • Health • Status Effect	
	Enemies	Bosses • Death Mark • Enemy Behavior • Eximus (Overguard) • Lich System	
	Mission	Arbitrations • Archon Hunt • Break Narmer • Empyrean • Invasion • Sortie • Tactical Alert • The Circuit • The Steel Path • Void Fissure	
	Activities	Captura • Conservation • Fishing • K-Drive Race • Ludoplex • Mining	
	PvP	Duel • Conclave (Lunaro) • Frame Fighter	
	Others	Crafting • Themed Events	

WARFRAME
Wiki

SIGN IN



START A WIKI

SIGN IN

Explore

Fan Central

CURRENT



	Warframe	Valence Fusion Attributes (Armor, Energy, Health, Shield, Sprint Speed) • Abilities (Augment, Casting Speed, Helminth System, Passives, Duration, Efficiency, Range, Strength)
	Weapons	Accuracy • Alternate Fire • Ammo • Area of Effect • Attack Speed • Bounce • Critical Hit • Damage Falloff • Exalted Weapon • Fire Rate • Hitscan • Holster • Incarnon • Melee • Multishot • Noise • Projectile • Projectile Speed • Punch Through • Recoil • Reload • Ricochet • Trigger Type • Zoom
	Operator	Amp • Focus (Madurai, Vazarin, Naramon, Unairu, Zenurik) • Lens
	Drifter and Duviri	Decrees • Drifter Combat • Drifter Intrinsics • Kaithe
	Other	Archwing • Companion • K-Drive • Necramech • Parazon • Railjack
	General	AI Director • Drop Tables • HUD • Key Bindings • Material Structures • PBR • Rarity • RNG • Settings • String Interpolation • Text Icons • Upgrade
Technical	Software, Networking, and Services	Cross Platform Play • Cross Platform Save • Dedicated Servers • EE.cfg • EE.log • File Directory • Fonts • Network Architecture • Public Export • Public Test Cluster • Stress Test • Warframe Arsenal Twitch Extension • World State
	Audio	Mandachord • Music • Shawzin • Somachord • Sound Calculating Bonuses (Additive Stacking, Multiplicative Stacking) • Condition Overload (Mechanic) • Enemy Level Scaling • Maximization • User Research
	Mathematical	

Categories

WARFRAME
WikiSIGN
IN



+ START A WIKI

SIGN IN



Explore



Fan Central

CURRENT



Sci-fi Warframe