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Greek alphabet letters & symbols

Greek alphabet letters are used as math and science symbols.

Greek alphabet list

A	α	Alpha	a	
B	β	Beta	b	
Γ	γ	Gamma	g	
Δ	δ	Delta	d	
E	ε	Epsilon	e	
Z	ζ	Zeta	z	
H	η	Eta	h	
Θ	θ	Theta	th	
I	ι	Iota	i	
Upper Case Letter	Lower Case Letter	Greek Letter Name	English Equivalent	Letter Name Pronounce
Λ	λ	Lambda	l	
M	μ	Mu	m	
N	ν	Nu	n	
Ξ	ξ	Xi	x	
O	ο	Omicron	o	
Π	π	Pi	p	
P	ρ	Rho	r	
Σ	σ,ς *	Sigma	s	
T	τ	Tau	t	
Υ	υ	Upsilon	u	

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Φ	ϕ	Phi	ph	
χ	χ	Chi	ch	
Ψ	ψ	Psi	ps	
Ω	ω	Omega	o	

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* second lower case sigma letter is used in word final position

Greek letters symbols list

Symbol	Name	Meaning	Example
α, β, γ	Alpha, Beta, Gamma	Geometric angles	$\alpha = 90^\circ$
Δ	Delta	Change / difference	$\Delta t = t_1 - t_0$
Δ	discriminant	$\Delta = b^2 - 4ac$	
Σ	sigma	summation - sum of all values in range of series	$\sum x_i = x_1 + x_2 + \dots + x_n$
Π	capital pi	product - product of all values in range of series	$\prod x_i = x_1 \cdot x_2 \cdot \dots \cdot x_n$
γ	Euler-Mascheroni constant	$\gamma = 0.5772156649\dots$	
ϕ	golden ratio	golden ratio constant	
π	pi constant	$\pi = 3.141592654\dots$	$c = \pi \cdot d = 2 \cdot \pi \cdot r$
μ	population mean	mean of population values	$\mu = 10$
σ^2	variance	variance of population values	$\sigma^2 = 4$
σ_X	standard deviation	standard deviation value of random variable X	$\sigma_X = 2$
$\rho_{X,Y}$	correlation	correlation of random variables X and Y	$\rho_{X,Y} = 0.6$
$\chi^2(k)$	chi-square distribution	$f(x) = x^{k/2-1} e^{-x/2} / (2^{k/2} \Gamma(k/2))$	

Greek alphabet origins

Egyptian hieroglyphs (3500 BC)
↓
Proto-Sinaitic alphabet (1800 BC)
↓
Phoenician alphabet (1200 BC)
↓
Greek alphabet (800 BC)

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