

Package mathfont v. 3.0 Example—Cormorant

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January 2026

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This is Cormorant with Crimson for Greek characters and Bona Nova for diacritics. “Testing. Testing.” Brown foxes quickly jump over dazzling does and harts. This document shows an example of mathfont in action. Unfortunately, there are many more equations in the world than I have space for here. Nevertheless, I hope I hit some of the highlights. Happy TeXing!

Black-Scholes Equation

$$\frac{\partial V}{\partial t} + \frac{1}{2} \sigma^2 S^2 \frac{\partial^2 V}{\partial S^2} = rV - rS \frac{\partial V}{\partial X}$$

Cardano’s Formula/Cubic Formula

$$t_i = \omega_i \sqrt[3]{-\frac{q}{2} + \sqrt{\frac{q^2}{4} + \frac{p^3}{27}}} + \omega_i^2 \sqrt[3]{-\frac{q}{2} - \sqrt{\frac{q^2}{4} + \frac{p^3}{27}}}$$

Einstein’s Field Equation (General Relativity)

$$R_{\mu\nu} - \frac{1}{2} R g_{\mu\nu} + \Lambda g_{\mu\nu} = \frac{8\pi G}{c^4} T_{\mu\nu}$$

First Isomorphism Theorem

$$\varphi(X) \cong X / \ker(\varphi)$$

Gauss-Bonnet Formula

$$\int_M K \, dA + \int_{\partial M} k_g \, ds = 2\pi\chi(M)$$

Maxwell’s Equations

$$\begin{aligned} \nabla \cdot \mathbf{E} &= \frac{\rho}{\epsilon_0} & \nabla \cdot \mathbf{B} &= 0 \\ \nabla \times \mathbf{E} &= -\frac{\partial \mathbf{B}}{\partial t} & \nabla \times \mathbf{B} &= \mu_0 \left(\mathbf{J} + \epsilon_0 \frac{\partial \mathbf{E}}{\partial t} \right) \end{aligned}$$

Michaelis-Menten Model

$$v = \frac{d[P]}{dt} = V \frac{[S]}{K_M + [S]}$$

Navier-Stokes Equation

$$\begin{aligned} \frac{\partial}{\partial t} (\rho \mathbf{u}) + \nabla \cdot (\rho \mathbf{u} \otimes \mathbf{u}) &= -\nabla \bar{p} + \mu \nabla^2 \mathbf{u} \\ &+ \frac{1}{3} \mu \nabla (\nabla \cdot \mathbf{u}) + \rho \mathbf{g} \end{aligned}$$

Quadratic Formula

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

Ramanujan’s Approximation for Γ

$$\Gamma(1+x) \approx \sqrt{\pi} x^x e^{-x} \sqrt[6]{8x^3 + 4x^2 + x + \frac{1}{30}}$$

Residue Theorem

$$\frac{1}{2i\pi} \int_{\gamma} f(z) \, dz = \sum_{k=1}^n \text{Res}_{a_k}(f)$$

Riemann Zeta Function

$$\begin{aligned} \zeta(z) &= \sum_{i=1}^{\infty} \frac{1}{z^i} = \frac{1}{\Gamma(z)} \int_0^{\infty} \frac{x^{z-1}}{e^x - 1} \, dx \\ &= 2^z \pi^{z-1} \sin\left(\frac{\pi z}{2}\right) \Gamma(1-z) \zeta(1-z) \end{aligned}$$

Schrodinger Equation

$$i\hbar \frac{d}{dt} |\Psi(t)\rangle = \hat{H} |\Psi(t)\rangle$$

Lorentz Transformation (Special Relativity)

$$t' = \left(t - \frac{vx}{c^2} \right) \frac{1}{\sqrt{1 - \frac{v^2}{c^2}}}$$