Yet another math test document, `test11p`

based on Alan Jeffrey's `testmath.tex`*

1 Introduction

This document tests the math capabilities of `mt11p`. The MathTıme glyphs are included as 600 dpi bitmaps, not as outlines.

The package was loaded with the default options. Each section uses the same math version setting thoughout.

2 `\normalmath` version

Test of a label containing an underscore: We're in section 2.

Fonts and Accents

Math italic (`\mathnormal`):

$ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz\imath\jmath\grave{x}\acute{x}\hat{x}\tilde{x}\ddot{x}\check{x}\breve{x}\bar{x}\dot{x}\,\overline{x}$

Text italic (`\mathit`):

$$\mathit{ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz\grave{x}\acute{x}\hat{x}\tilde{x}\ddot{x}\check{x}\breve{x}\bar{x}\dot{x}\,\overline{x}}$$

Roman (`\mathrm`):

$$\mathrm{ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz\grave{x}\acute{x}\hat{x}\tilde{x}\ddot{x}\check{x}\breve{x}\bar{x}\dot{x}\,\overline{x}}$$

Bold (`\mathbf`):

$$\mathbf{ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz\grave{x}\acute{x}\hat{x}\tilde{x}\ddot{x}\check{x}\breve{x}\bar{x}\dot{x}\,\overline{x}}$$

Calligraphic (`\mathcal`) upper case:

$$\mathcal{ABCDEFGHIJKLMNOPQRSTUVWXYZ}\mathcal{\alpha\AE G\varepsilon I\pounds\mathcal{Q}S}\grave{\mathcal{G}}\acute{\mathcal{G}}\hat{\mathcal{G}}\tilde{\mathcal{G}}\ddot{\mathcal{G}}\check{\mathcal{G}}\breve{\mathcal{G}}\bar{\mathcal{G}}\dot{\mathcal{G}}\,\overline{\mathcal{G}}$$

*Extra math versions and the extra symbols of the MathTıme fonts hacked in by Drahoslav Lím, 97/01/27.

Calligraphic (\mathcal) lower case:

$$\mathcal{a b c d e f g h i j k l m n o p q r r s t u v w x y z z \imath \jmath \grave{x} \acute{x} \hat{x} \tilde{x} \ddot{x} \check{x} \breve{x} \bar{x} \dot{x}}\ \overline{\mathcal{x}}$$

Test the "\script" (a form of \mathscr) command and its starred form:

$$\mathscr{ABCD}\ldots \quad \text{starred: } \mathscr{AEGGILQSrzıȷ}$$

Sans (\mathsf):

$\mathsf{ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz\grave{x}\acute{x}\hat{x}\tilde{x}\ddot{x}\check{x}\breve{x}\bar{x}\dot{x}}\ \overline{\mathsf{x}}$

Typewriter (\mathtt):

$\mathtt{ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz\grave{x}\acute{x}\hat{x}\tilde{x}\ddot{x}\check{x}\breve{x}\bar{x}\dot{x}}\ \overline{\mathtt{x}}$

Greek (lower case italic):

$$\Gamma\Delta\Theta\Lambda\Xi\Pi\Sigma\Upsilon\Phi\Psi\Omega\alpha\beta\gamma\delta\epsilon\varepsilon\zeta\eta\theta\vartheta\iota\kappa\varkappa\lambda\mu\nu\xi o\pi\varpi\rho\varrho\sigma\varsigma\tau\upsilon\phi\varphi\chi\psi\omega$$

Italic upper case Greek (\var...):

$$\varGamma\varDelta\varTheta\varLambda\varXi\varPi\varSigma\varUpsilon\varPhi\varPsi\varOmega\grave{\varDelta}\acute{\varDelta}\hat{\varDelta}\tilde{\varDelta}\ddot{\varDelta}\check{\varDelta}\breve{\varDelta}\bar{\varDelta}\dot{\varDelta}\ \overline{\varDelta}$$

Upright lowercase Greek, incl. ligatures (\mathgr):

αβΓγΔδϵεηζΘθϑκϰΛλμνΞξΠπϖρϱΣσςτΥυΦϕχΨψΩωὴήῆη̃ῆη̈η̌η̆η̄η̇ $\overline{\text{η}}$

Upright Greek in text, no space between letters (\textgr):
αβΓγΔδϵηζΘθκΛλμνΞξΠπρΣστΥυΦϕχΨψΩω

Do these line up appropriately? (Check out the \hbar.)

$\forall\mathscr{B}\Gamma\mathbf{D}\exists\mathrm{F}G\mathscr{H}\Im\mathbf{J}\mathsf{K}\Lambda M\aleph\emptyset\Pi Q\Re\Sigma\mathrm{T}\Upsilon\mathcal{V}\mathbf{W}\Xi\mathsf{Y}Z\angle S \quad a\mathbf{c}\in\mathrm{i}\kappa\mathbf{m}\nu o\varpi\mathrm{r}s\tau uv\mathsf{w}\mathtt{z}\mathrm{g}j\mathsf{q}\chi y \quad b\delta\mathbf{f}\mathrm{h}k\mathsf{l}\phi\hbar\cap\cup$

Math mode symbols: $\dagger\ddagger\S\P$, and the same in text mode: †, ‡, §, ¶, and in bold series: **†, ‡, §, ¶**.

Text mode symbols: ©, ®, and in bold series: **©, ®**.

Oldstyle digits (Computer Modern): 1234567890; in math: 1234567890.

Active underscore: compare A_j vs. A_j; the underscore kern has been blocked in the second case.

Glyph dimensions

These glyphs should be optically centered:

$|a|\ |b|\ |c|\ |d|\ |e|\ |f|\ |g|\ |h|\ |i|\ |j|\ |k|\ |l|\ |m|\ |n|\ |o|\ |p|\ |q|\ |r|\ |s|$
$|t|\ |u|\ |v|\ |w|\ |x|\ |y|\ |z|\ |A|\ |B|\ |C|\ |D|\ |E|\ |F|\ |G|\ |H|\ |I|\ |J|$
$|K|\ |L|\ |M|\ |N|\ |O|\ |P|\ |Q|\ |R|\ |S|\ |T|\ |U|\ |V|\ |W|\ |X|\ |Y|\ |Z|$
$|0|\ |1|\ |2|\ |3|\ |4|\ |5|\ |6|\ |7|\ |8|\ |9|\ |\Gamma|\ |\Delta|\ |\Theta|\ |\Lambda|\ |\Xi|\ |\Pi|\ |\Sigma|\ |\Upsilon|$
$|\Phi|\ |\Psi|\ |\Omega|\ |\varGamma|\ |\varDelta|\ |\varTheta|\ |\varLambda|\ |\varXi|\ |\varPi|\ |\varSigma|\ |\varUpsilon|\ |\varPhi|\ |\varPsi|\ |\varOmega|\ |\alpha|\ |\beta|$
$|\gamma|\ |\delta|\ |\epsilon|\ |\varepsilon|\ |\zeta|\ |\eta|\ |\theta|\ |\vartheta|\ |\iota|\ |\kappa|\ |\varkappa|\ |\lambda|\ |\mu|\ |\nu|\ |\xi|\ |o|\ |\pi|\ |\varpi|\ |\rho|$
$|\varrho|\ |\sigma|\ |\varsigma|\ |\tau|\ |\upsilon|\ |\phi|\ |\varphi|\ |\chi|\ |\psi|\ |\omega|\ |\partial|\ |\ell|\ |\imath|\ |\jmath|\ |\wp|\ |\mathcal{A}|\ |\mathcal{B}|\ |\mathcal{C}|$
$|\mathcal{D}|\ |\mathcal{E}|\ |\mathcal{F}|\ |\mathcal{G}|\ |\mathcal{H}|\ |\mathcal{I}|\ |\mathcal{J}|\ |\mathcal{K}|\ |\mathcal{L}|\ |\mathcal{M}|\ |\mathcal{N}|\ |\mathcal{O}|\ |\mathcal{P}|\ |\mathcal{Q}|$
$|\mathcal{R}|\ |\mathcal{S}|\ |\mathcal{T}|\ |\mathcal{U}|\ |\mathcal{V}|\ |\mathcal{W}|\ |\mathcal{X}|\ |\mathcal{Y}|\ |\mathcal{Z}|\ |\mathcal{a}|\ |\mathcal{b}|\ |\mathcal{c}|\ |\mathcal{d}|\ |\mathcal{e}|\ |\mathcal{f}|$
$|\mathcal{g}|\ |\mathcal{h}|\ |\mathcal{i}|\ |\mathcal{j}|\ |\mathcal{k}|\ |\mathcal{l}|\ |\mathcal{m}|\ |\mathcal{n}|\ |\mathcal{o}|\ |\mathcal{p}|\ |\mathcal{q}|\ |\mathcal{r}|\ |\mathcal{s}|\ |\mathcal{t}|\ |\mathcal{u}|\ |\mathcal{v}|$
$|\mathcal{w}|\ |\mathcal{x}|\ |\mathcal{y}|\ |\mathcal{z}|$ |α| |β| |Γ| |γ| |Δ| |δ| |ϵ| |ε| |η| |ζ| |Θ| |θ|
|ϑ| |Σ| |σ| |ς| |τ| |Υ| |υ| |Φ| |ϕ| |χ| |Ψ| |ψ| |Ω| |ω|

These subscripts should be correctly placed:

$a_\circ\; b_\circ\; c_\circ\; d_\circ\; e_\circ\; f_\circ\; g_\circ\; h_\circ\; i_\circ\; j_\circ\; k_\circ\; l_\circ\; m_\circ\; n_\circ\; o_\circ\; p_\circ\; q_\circ\; r_\circ\; s_\circ\; t_\circ\; u_\circ\; v_\circ$
$w_\circ\; x_\circ\; y_\circ\; z_\circ\; A_\circ\; B_\circ\; C_\circ\; D_\circ\; E_\circ\; F_\circ\; G_\circ\; H_\circ\; I_\circ\; J_\circ\; K_\circ\; L_\circ\; M_\circ\; N_\circ\; O_\circ$
$P_\circ\; Q_\circ\; R_\circ\; S_\circ\; T_\circ\; U_\circ\; V_\circ\; W_\circ\; X_\circ\; Y_\circ\; Z_\circ\; 0_\circ\; 1_\circ\; 2_\circ\; 3_\circ\; 4_\circ\; 5_\circ\; 6_\circ\; 7_\circ\; 8_\circ$
$9_\circ\; \Gamma_\circ\; \Delta_\circ\; \Theta_\circ\; \Lambda_\circ\; \Xi_\circ\; \Pi_\circ\; \Sigma_\circ\; \Upsilon_\circ\; \Phi_\circ\; \Psi_\circ\; \Omega_\circ\; \mathit{\Gamma}_\circ\; \mathit{\Delta}_\circ\; \mathit{\Theta}_\circ\; \mathit{\Lambda}_\circ\; \mathit{\Xi}_\circ\; \mathit{\Pi}_\circ$
$\mathit{\Sigma}_\circ\; \mathit{\Upsilon}_\circ\; \mathit{\Phi}_\circ\; \mathit{\Psi}_\circ\; \mathit{\Omega}_\circ\; \alpha_\circ\; \beta_\circ\; \gamma_\circ\; \delta_\circ\; \epsilon_\circ\; \varepsilon_\circ\; \zeta_\circ\; \eta_\circ\; \theta_\circ\; \vartheta_\circ\; \iota_\circ\; \kappa_\circ\; \varkappa_\circ\; \lambda_\circ\; \mu_\circ\; \nu_\circ$
$\xi_\circ\; o_\circ\; \pi_\circ\; \varpi_\circ\; \rho_\circ\; \varrho_\circ\; \sigma_\circ\; \varsigma_\circ\; \tau_\circ\; \upsilon_\circ\; \phi_\circ\; \varphi_\circ\; \chi_\circ\; \psi_\circ\; \omega_\circ\; \partial_\circ\; \ell_\circ\; \imath_\circ\; \jmath_\circ\; \wp_\circ\; \mathcal{A}_\circ$
$\mathcal{B}_\circ\; \mathcal{C}_\circ\; \mathcal{D}_\circ\; \mathcal{E}_\circ\; \mathcal{F}_\circ\; \mathcal{G}_\circ\; \mathcal{H}_\circ\; \mathcal{I}_\circ\; \mathcal{J}_\circ\; \mathcal{K}_\circ\; \mathcal{L}_\circ\; \mathcal{M}_\circ\; \mathcal{N}_\circ\; \mathcal{O}_\circ\; \mathcal{P}_\circ\; \mathcal{Q}_\circ$
$\mathcal{R}_\circ\; \mathcal{S}_\circ\; \mathcal{T}_\circ\; \mathcal{U}_\circ\; \mathcal{V}_\circ\; \mathcal{W}_\circ\; \mathcal{X}_\circ\; \mathcal{Y}_\circ\; \mathcal{Z}_\circ\; \mathscr{a}_\circ\; \mathscr{b}_\circ\; \mathscr{c}_\circ\; \mathscr{d}_\circ\; \mathscr{e}_\circ\; \mathscr{f}_\circ\; \mathscr{g}_\circ\; \mathscr{h}_\circ$
$\mathscr{i}_\circ\; \mathscr{j}_\circ\; \mathscr{k}_\circ\; \mathscr{l}_\circ\; \mathscr{m}_\circ\; \mathscr{n}_\circ\; \mathscr{o}_\circ\; \mathscr{p}_\circ\; \mathscr{q}_\circ\; \mathscr{r}_\circ\; \mathscr{s}_\circ\; \mathscr{t}_\circ\; \mathscr{u}_\circ\; \mathscr{v}_\circ\; \mathscr{w}_\circ\; \mathscr{x}_\circ\; \mathscr{y}_\circ$
$\mathscr{z}_\circ\; \upalpha_\circ\; \upbeta_\circ\; \Gamma_\circ\; \upgamma_\circ\; \Delta_\circ\; \updelta_\circ\; \upepsilon_\circ\; \upvarepsilon_\circ\; \upeta_\circ\; \upzeta_\circ\; \Theta_\circ\; \uptheta_\circ\; \upvartheta_\circ\; \Sigma_\circ\; \upsigma_\circ\; \upvarsigma_\circ\; \uptau_\circ$
$\Upsilon_\circ\; \upupsilon_\circ\; \Phi_\circ\; \upphi_\circ\; \upchi_\circ\; \Psi_\circ\; \uppsi_\circ\; \Omega_\circ\; \upomega_\circ$

These superscripts should be correctly placed:

$a^\circ\; b^\circ\; c^\circ\; d^\circ\; e^\circ\; f^\circ\; g^\circ\; h^\circ\; i^\circ\; j^\circ\; k^\circ\; l^\circ\; m^\circ\; n^\circ\; o^\circ\; p^\circ\; q^\circ\; r^\circ\; s^\circ\; t^\circ\; u^\circ$
$v^\circ\; w^\circ\; x^\circ\; y^\circ\; z^\circ\; A^\circ\; B^\circ\; C^\circ\; D^\circ\; E^\circ\; F^\circ\; G^\circ\; H^\circ\; I^\circ\; J^\circ\; K^\circ\; L^\circ\; M^\circ$
$N^\circ\; O^\circ\; P^\circ\; Q^\circ\; R^\circ\; S^\circ\; T^\circ\; U^\circ\; V^\circ\; W^\circ\; X^\circ\; Y^\circ\; Z^\circ\; 0^\circ\; 1^\circ\; 2^\circ\; 3^\circ\; 4^\circ\; 5^\circ$
$6^\circ\; 7^\circ\; 8^\circ\; 9^\circ\; \Gamma^\circ\; \Delta^\circ\; \Theta^\circ\; \Lambda^\circ\; \Xi^\circ\; \Pi^\circ\; \Sigma^\circ\; \Upsilon^\circ\; \Phi^\circ\; \Psi^\circ\; \Omega^\circ\; \mathit{\Gamma}^\circ\; \mathit{\Delta}^\circ\; \mathit{\Theta}^\circ$
$\mathit{\Lambda}^\circ\; \mathit{\Xi}^\circ\; \mathit{\Pi}^\circ\; \mathit{\Sigma}^\circ\; \mathit{\Upsilon}^\circ\; \mathit{\Phi}^\circ\; \mathit{\Psi}^\circ\; \mathit{\Omega}^\circ\; \alpha^\circ\; \beta^\circ\; \gamma^\circ\; \delta^\circ\; \epsilon^\circ\; \varepsilon^\circ\; \zeta^\circ\; \eta^\circ\; \theta^\circ\; \vartheta^\circ\; \iota^\circ$
$\kappa^\circ\; \varkappa^\circ\; \lambda^\circ\; \mu^\circ\; \nu^\circ\; \xi^\circ\; o^\circ\; \pi^\circ\; \varpi^\circ\; \rho^\circ\; \varrho^\circ\; \sigma^\circ\; \varsigma^\circ\; \tau^\circ\; \upsilon^\circ\; \phi^\circ\; \varphi^\circ\; \chi^\circ\; \psi^\circ\; \omega^\circ$
$\partial^\circ\; \ell^\circ\; \imath^\circ\; \jmath^\circ\; \wp^\circ\; \mathcal{A}^\circ\; \mathcal{B}^\circ\; \mathcal{C}^\circ\; \mathcal{D}^\circ\; \mathcal{E}^\circ\; \mathcal{F}^\circ\; \mathcal{G}^\circ\; \mathcal{H}^\circ\; \mathcal{I}^\circ\; \mathcal{J}^\circ\; \mathcal{K}^\circ\; \mathcal{L}^\circ$
$\mathcal{M}^\circ\; \mathcal{N}^\circ\; \mathcal{O}^\circ\; \mathcal{P}^\circ\; \mathcal{Q}^\circ\; \mathcal{R}^\circ\; \mathcal{S}^\circ\; \mathcal{T}^\circ\; \mathcal{U}^\circ\; \mathcal{V}^\circ\; \mathcal{W}^\circ\; \mathcal{X}^\circ\; \mathcal{Y}^\circ\; \mathcal{Z}^\circ\; \mathscr{a}^\circ$
$\mathscr{b}^\circ\; \mathscr{c}^\circ\; \mathscr{d}^\circ\; \mathscr{e}^\circ\; \mathscr{f}^\circ\; \mathscr{g}^\circ\; \mathscr{h}^\circ\; \mathscr{i}^\circ\; \mathscr{j}^\circ\; \mathscr{k}^\circ\; \mathscr{l}^\circ\; \mathscr{m}^\circ\; \mathscr{n}^\circ\; \mathscr{o}^\circ\; \mathscr{p}^\circ\; \mathscr{q}^\circ\; \mathscr{r}^\circ$
$\mathscr{s}^\circ\; \mathscr{t}^\circ\; \mathscr{u}^\circ\; \mathscr{v}^\circ\; \mathscr{w}^\circ\; \mathscr{x}^\circ\; \mathscr{y}^\circ\; \mathscr{z}^\circ\; \upalpha^\circ\; \upbeta^\circ\; \Gamma^\circ\; \upgamma^\circ\; \Delta^\circ\; \updelta^\circ\; \upepsilon^\circ\; \upvarepsilon^\circ\; \upeta^\circ$
$\upzeta^\circ\; \Theta^\circ\; \uptheta^\circ\; \upvartheta^\circ\; \Sigma^\circ\; \upsigma^\circ\; \upvarsigma^\circ\; \uptau^\circ\; \Upsilon^\circ\; \upupsilon^\circ\; \Phi^\circ\; \upphi^\circ\; \upchi^\circ\; \Psi^\circ\; \uppsi^\circ\; \Omega^\circ\; \upomega^\circ$

These subscripts and superscripts should be correctly placed:

$a_\circ^\circ\; b_\circ^\circ\; c_\circ^\circ\; d_\circ^\circ\; e_\circ^\circ\; f_\circ^\circ\; g_\circ^\circ\; h_\circ^\circ\; i_\circ^\circ\; j_\circ^\circ\; k_\circ^\circ\; l_\circ^\circ\; m_\circ^\circ\; n_\circ^\circ\; o_\circ^\circ\; p_\circ^\circ\; q_\circ^\circ\; r_\circ^\circ\; s_\circ^\circ\; t_\circ^\circ\; u_\circ^\circ$
$v_\circ^\circ\; w_\circ^\circ\; x_\circ^\circ\; y_\circ^\circ\; z_\circ^\circ\; A_\circ^\circ\; B_\circ^\circ\; C_\circ^\circ\; D_\circ^\circ\; E_\circ^\circ\; F_\circ^\circ\; G_\circ^\circ\; H_\circ^\circ\; I_\circ^\circ\; J_\circ^\circ\; K_\circ^\circ\; L_\circ^\circ\; M_\circ^\circ$
$N_\circ^\circ\; O_\circ^\circ\; P_\circ^\circ\; Q_\circ^\circ\; R_\circ^\circ\; S_\circ^\circ\; T_\circ^\circ\; U_\circ^\circ\; V_\circ^\circ\; W_\circ^\circ\; X_\circ^\circ\; Y_\circ^\circ\; Z_\circ^\circ\; 0_\circ^\circ\; 1_\circ^\circ\; 2_\circ^\circ\; 3_\circ^\circ\; 4_\circ^\circ\; 5_\circ^\circ$
$6_\circ^\circ\; 7_\circ^\circ\; 8_\circ^\circ\; 9_\circ^\circ\; \Gamma_\circ^\circ\; \Delta_\circ^\circ\; \Theta_\circ^\circ\; \Lambda_\circ^\circ\; \Xi_\circ^\circ\; \Pi_\circ^\circ\; \Sigma_\circ^\circ\; \Upsilon_\circ^\circ\; \Phi_\circ^\circ\; \Psi_\circ^\circ\; \Omega_\circ^\circ\; \mathit{\Gamma}_\circ^\circ\; \mathit{\Delta}_\circ^\circ\; \mathit{\Theta}_\circ^\circ$
$\mathit{\Lambda}_\circ^\circ\; \mathit{\Xi}_\circ^\circ\; \mathit{\Pi}_\circ^\circ\; \mathit{\Sigma}_\circ^\circ\; \mathit{\Upsilon}_\circ^\circ\; \mathit{\Phi}_\circ^\circ\; \mathit{\Psi}_\circ^\circ\; \mathit{\Omega}_\circ^\circ\; \alpha_\circ^\circ\; \beta_\circ^\circ\; \gamma_\circ^\circ\; \delta_\circ^\circ\; \epsilon_\circ^\circ\; \varepsilon_\circ^\circ\; \zeta_\circ^\circ\; \eta_\circ^\circ\; \theta_\circ^\circ\; \vartheta_\circ^\circ\; \iota_\circ^\circ$
$\kappa_\circ^\circ\; \varkappa_\circ^\circ\; \lambda_\circ^\circ\; \mu_\circ^\circ\; \nu_\circ^\circ\; \xi_\circ^\circ\; o_\circ^\circ\; \pi_\circ^\circ\; \varpi_\circ^\circ\; \rho_\circ^\circ\; \varrho_\circ^\circ\; \sigma_\circ^\circ\; \varsigma_\circ^\circ\; \tau_\circ^\circ\; \upsilon_\circ^\circ\; \phi_\circ^\circ\; \varphi_\circ^\circ\; \chi_\circ^\circ\; \psi_\circ^\circ\; \omega_\circ^\circ$
$\partial_\circ^\circ\; \ell_\circ^\circ\; \imath_\circ^\circ\; \jmath_\circ^\circ\; \wp_\circ^\circ\; \mathcal{A}_\circ^\circ\; \mathcal{B}_\circ^\circ\; \mathcal{C}_\circ^\circ\; \mathcal{D}_\circ^\circ\; \mathcal{E}_\circ^\circ\; \mathcal{F}_\circ^\circ\; \mathcal{G}_\circ^\circ\; \mathcal{H}_\circ^\circ\; \mathcal{I}_\circ^\circ\; \mathcal{J}_\circ^\circ\; \mathcal{K}_\circ^\circ\; \mathcal{L}_\circ^\circ$
$\mathcal{M}_\circ^\circ\; \mathcal{N}_\circ^\circ\; \mathcal{O}_\circ^\circ\; \mathcal{P}_\circ^\circ\; \mathcal{Q}_\circ^\circ\; \mathcal{R}_\circ^\circ\; \mathcal{S}_\circ^\circ\; \mathcal{T}_\circ^\circ\; \mathcal{U}_\circ^\circ\; \mathcal{V}_\circ^\circ\; \mathcal{W}_\circ^\circ\; \mathcal{X}_\circ^\circ\; \mathcal{Y}_\circ^\circ\; \mathcal{Z}_\circ^\circ\; \mathscr{a}_\circ^\circ$
$\mathscr{b}_\circ^\circ\; \mathscr{c}_\circ^\circ\; \mathscr{d}_\circ^\circ\; \mathscr{e}_\circ^\circ\; \mathscr{f}_\circ^\circ\; \mathscr{g}_\circ^\circ\; \mathscr{h}_\circ^\circ\; \mathscr{i}_\circ^\circ\; \mathscr{j}_\circ^\circ\; \mathscr{k}_\circ^\circ\; \mathscr{l}_\circ^\circ\; \mathscr{m}_\circ^\circ\; \mathscr{n}_\circ^\circ\; \mathscr{o}_\circ^\circ\; \mathscr{p}_\circ^\circ\; \mathscr{q}_\circ^\circ\; \mathscr{r}_\circ^\circ$
$\mathscr{s}_\circ^\circ\; \mathscr{t}_\circ^\circ\; \mathscr{u}_\circ^\circ\; \mathscr{v}_\circ^\circ\; \mathscr{w}_\circ^\circ\; \mathscr{x}_\circ^\circ\; \mathscr{y}_\circ^\circ\; \mathscr{z}_\circ^\circ\; \upalpha_\circ^\circ\; \upbeta_\circ^\circ\; \Gamma_\circ^\circ\; \upgamma_\circ^\circ\; \Delta_\circ^\circ\; \updelta_\circ^\circ\; \upepsilon_\circ^\circ\; \upvarepsilon_\circ^\circ\; \upeta_\circ^\circ$
$\upzeta_\circ^\circ\; \Theta_\circ^\circ\; \uptheta_\circ^\circ\; \upvartheta_\circ^\circ\; \Sigma_\circ^\circ\; \upsigma_\circ^\circ\; \upvarsigma_\circ^\circ\; \uptau_\circ^\circ\; \Upsilon_\circ^\circ\; \upupsilon_\circ^\circ\; \Phi_\circ^\circ\; \upphi_\circ^\circ\; \upchi_\circ^\circ\; \Psi_\circ^\circ\; \uppsi_\circ^\circ\; \Omega_\circ^\circ\; \upomega_\circ^\circ$

These accents should be centered:

$\vec{a}\; \vec{b}\; \vec{c}\; \vec{d}\; \vec{e}\; \vec{f}\; \vec{g}\; \vec{h}\; \vec{i}\; \vec{j}\; \vec{k}\; \vec{l}\; \vec{m}\; \vec{n}\; \vec{o}\; \vec{p}\; \vec{q}\; \vec{r}\; \vec{s}\; \vec{t}\; \vec{u}\; \vec{v}\; \vec{w}\; \vec{x}\; \vec{y}\; \vec{z}\; \vec{A}\; \vec{B}\; \vec{C}$
$\vec{D}\; \vec{E}\; \vec{F}\; \vec{G}\; \vec{H}\; \vec{I}\; \vec{J}\; \vec{K}\; \vec{L}\; \vec{M}\; \vec{N}\; \vec{O}\; \vec{P}\; \vec{Q}\; \vec{R}\; \vec{S}\; \vec{T}\; \vec{U}\; \vec{V}\; \vec{W}\; \vec{X}\; \vec{Y}\; \vec{Z}\; \vec{0}$
$\vec{1}\; \vec{2}\; \vec{3}\; \vec{4}\; \vec{5}\; \vec{6}\; \vec{7}\; \vec{8}\; \vec{9}\; \vec{\Gamma}\; \vec{\Delta}\; \vec{\Theta}\; \vec{\Lambda}\; \vec{\Xi}\; \vec{\Pi}\; \vec{\Sigma}\; \vec{\Upsilon}\; \vec{\Phi}\; \vec{\Psi}\; \vec{\Omega}\; \vec{\mathit{\Gamma}}\; \vec{\mathit{\Delta}}\; \vec{\mathit{\Theta}}\; \vec{\mathit{\Lambda}}\; \vec{\mathit{\Xi}}$
$\vec{\mathit{\Pi}}\; \vec{\mathit{\Sigma}}\; \vec{\mathit{\Upsilon}}\; \vec{\mathit{\Phi}}\; \vec{\mathit{\Psi}}\; \vec{\mathit{\Omega}}\; \vec{\alpha}\; \vec{\beta}\; \vec{\gamma}\; \vec{\delta}\; \vec{\epsilon}\; \vec{\varepsilon}\; \vec{\zeta}\; \vec{\eta}\; \vec{\theta}\; \vec{\vartheta}\; \vec{\iota}\; \vec{\kappa}\; \vec{\varkappa}\; \vec{\lambda}\; \vec{\mu}\; \vec{\nu}\; \vec{\xi}\; \vec{o}\; \vec{\pi}\; \vec{\varpi}\; \vec{\rho}$
$\vec{\varrho}\; \vec{\sigma}\; \vec{\varsigma}\; \vec{\tau}\; \vec{\upsilon}\; \vec{\phi}\; \vec{\varphi}\; \vec{\chi}\; \vec{\psi}\; \vec{\omega}\; \vec{\partial}\; \vec{\ell}\; \vec{\imath}\; \vec{\jmath}\; \vec{\wp}\; \vec{\mathcal{A}}\; \vec{\mathcal{B}}\; \vec{\mathcal{C}}\; \vec{\mathcal{D}}\; \vec{\mathcal{E}}\; \vec{\mathcal{F}}\; \vec{\mathcal{G}}\; \vec{\mathcal{H}}\; \vec{\mathcal{I}}$
$\vec{\mathcal{J}}\; \vec{\mathcal{K}}\; \vec{\mathcal{L}}\; \vec{\mathcal{M}}\; \vec{\mathcal{N}}\; \vec{\mathcal{O}}\; \vec{\mathcal{P}}\; \vec{\mathcal{Q}}\; \vec{\mathcal{R}}\; \vec{\mathcal{S}}\; \vec{\mathcal{T}}\; \vec{\mathcal{U}}\; \vec{\mathcal{V}}\; \vec{\mathcal{W}}\; \vec{\mathcal{X}}\; \vec{\mathcal{Y}}\; \vec{\mathcal{Z}}\; \vec{\mathscr{a}}\; \vec{\mathscr{b}}\; \vec{\mathscr{c}}$
$\vec{\mathscr{d}}\; \vec{\mathscr{e}}\; \vec{\mathscr{f}}\; \vec{\mathscr{g}}\; \vec{\mathscr{h}}\; \vec{\mathscr{i}}\; \vec{\mathscr{j}}\; \vec{\mathscr{k}}\; \vec{\mathscr{l}}\; \vec{\mathscr{m}}\; \vec{\mathscr{n}}\; \vec{\mathscr{o}}\; \vec{\mathscr{p}}\; \vec{\mathscr{q}}\; \vec{\mathscr{r}}\; \vec{\mathscr{s}}\; \vec{\mathscr{t}}\; \vec{\mathscr{u}}\; \vec{\mathscr{v}}\; \vec{\mathscr{w}}\; \vec{\mathscr{x}}\; \vec{\mathscr{y}}$

$\vec{\mathscr{z}}$ $\vec{\upalpha}$ $\vec{\upbeta}$ $\vec{\Gamma}$ $\vec{\upgamma}$ $\vec{\Delta}$ $\vec{\updelta}$ $\vec{\upepsilon}$ $\vec{\upvarepsilon}$ $\vec{\upeta}$ $\vec{\upzeta}$ $\vec{\Theta}$ $\vec{\uptheta}$ $\vec{\upvartheta}$ $\vec{\Sigma}$ $\vec{\upsigma}$ $\vec{\upvarsigma}$ $\vec{\uptau}$ $\vec{\Upsilon}$ $\vec{\upupsilon}$ $\vec{\Phi}$ $\vec{\upphi}$ $\vec{\upchi}$
$\vec{\Psi}$ $\vec{\uppsi}$ $\vec{\Omega}$ $\vec{\upomega}$

As should these:

$\tilde{a}$ $\tilde{b}$ $\tilde{c}$ $\tilde{d}$ $\tilde{e}$ $\tilde{f}$ $\tilde{g}$ $\tilde{h}$ $\tilde{i}$ $\tilde{j}$ $\tilde{k}$ $\tilde{l}$ $\tilde{m}$ $\tilde{n}$ $\tilde{o}$ $\tilde{p}$ $\tilde{q}$ $\tilde{r}$ $\tilde{s}$ $\tilde{t}$ $\tilde{u}$ $\tilde{v}$ $\tilde{w}$ $\tilde{x}$ $\tilde{y}$ $\tilde{z}$ $\tilde{A}$ $\tilde{B}$ $\tilde{C}$
$\tilde{D}$ $\tilde{E}$ $\tilde{F}$ $\tilde{G}$ $\tilde{H}$ $\tilde{I}$ $\tilde{J}$ $\tilde{K}$ $\tilde{L}$ $\tilde{M}$ $\tilde{N}$ $\tilde{O}$ $\tilde{P}$ $\tilde{Q}$ $\tilde{R}$ $\tilde{S}$ $\tilde{T}$ $\tilde{U}$ $\tilde{V}$ $\tilde{W}$ $\tilde{X}$ $\tilde{Y}$ $\tilde{Z}$ $\tilde{0}$
$\tilde{1}$ $\tilde{2}$ $\tilde{3}$ $\tilde{4}$ $\tilde{5}$ $\tilde{6}$ $\tilde{7}$ $\tilde{8}$ $\tilde{9}$ $\tilde{\Gamma}$ $\tilde{\Delta}$ $\tilde{\Theta}$ $\tilde{\Lambda}$ $\tilde{\Xi}$ $\tilde{\Pi}$ $\tilde{\Sigma}$ $\tilde{\Upsilon}$ $\tilde{\Phi}$ $\tilde{\Psi}$ $\tilde{\Omega}$ $\tilde{\mathit{\Gamma}}$ $\tilde{\mathit{\Delta}}$ $\tilde{\mathit{\Theta}}$ $\tilde{\mathit{\Lambda}}$ $\tilde{\mathit{\Xi}}$
$\tilde{\mathit{\Pi}}$ $\tilde{\mathit{\Sigma}}$ $\tilde{\mathit{\Upsilon}}$ $\tilde{\mathit{\Phi}}$ $\tilde{\mathit{\Psi}}$ $\tilde{\mathit{\Omega}}$ $\tilde{\alpha}$ $\tilde{\beta}$ $\tilde{\gamma}$ $\tilde{\delta}$ $\tilde{\epsilon}$ $\tilde{\varepsilon}$ $\tilde{\zeta}$ $\tilde{\eta}$ $\tilde{\theta}$ $\tilde{\vartheta}$ $\tilde{\iota}$ $\tilde{\kappa}$ $\tilde{\varkappa}$ $\tilde{\lambda}$ $\tilde{\mu}$ $\tilde{\nu}$ $\tilde{\xi}$ $\tilde{o}$ $\tilde{\pi}$ $\tilde{\varpi}$ $\tilde{\rho}$
$\tilde{\varrho}$ $\tilde{\sigma}$ $\tilde{\varsigma}$ $\tilde{\tau}$ $\tilde{\upsilon}$ $\tilde{\phi}$ $\tilde{\varphi}$ $\tilde{\chi}$ $\tilde{\psi}$ $\tilde{\omega}$ $\tilde{\partial}$ $\tilde{\ell}$ $\tilde{\imath}$ $\tilde{\jmath}$ $\tilde{\wp}$ $\tilde{\mathcal{A}}$ $\tilde{\mathcal{B}}$ $\tilde{\mathcal{C}}$ $\tilde{\mathcal{D}}$ $\tilde{\mathcal{E}}$ $\tilde{\mathcal{F}}$ $\tilde{\mathcal{G}}$ $\tilde{\mathcal{H}}$ $\tilde{\mathcal{I}}$
$\tilde{\mathcal{J}}$ $\tilde{\mathcal{K}}$ $\tilde{\mathcal{L}}$ $\tilde{\mathcal{M}}$ $\tilde{\mathcal{N}}$ $\tilde{\mathcal{O}}$ $\tilde{\mathcal{P}}$ $\tilde{\mathcal{Q}}$ $\tilde{\mathcal{R}}$ $\tilde{\mathcal{S}}$ $\tilde{\mathcal{T}}$ $\tilde{\mathcal{U}}$ $\tilde{\mathcal{V}}$ $\tilde{\mathcal{W}}$ $\tilde{\mathcal{X}}$ $\tilde{\mathcal{Y}}$ $\tilde{\mathcal{Z}}$ $\tilde{\mathscr{a}}$ $\tilde{\mathscr{b}}$ $\tilde{\mathscr{c}}$
$\tilde{\mathscr{d}}$ $\tilde{\mathscr{e}}$ $\tilde{\mathscr{f}}$ $\tilde{\mathscr{g}}$ $\tilde{\mathscr{h}}$ $\tilde{\mathscr{i}}$ $\tilde{\mathscr{j}}$ $\tilde{\mathscr{k}}$ $\tilde{\mathscr{l}}$ $\tilde{\mathscr{m}}$ $\tilde{\mathscr{n}}$ $\tilde{\mathscr{o}}$ $\tilde{\mathscr{p}}$ $\tilde{\mathscr{q}}$ $\tilde{\mathscr{r}}$ $\tilde{\mathscr{s}}$ $\tilde{\mathscr{t}}$ $\tilde{\mathscr{u}}$ $\tilde{\mathscr{v}}$ $\tilde{\mathscr{w}}$ $\tilde{\mathscr{x}}$ $\tilde{\mathscr{y}}$
$\tilde{\mathscr{z}}$ $\tilde{\upalpha}$ $\tilde{\upbeta}$ $\tilde{\Gamma}$ $\tilde{\upgamma}$ $\tilde{\Delta}$ $\tilde{\updelta}$ $\tilde{\upepsilon}$ $\tilde{\upvarepsilon}$ $\tilde{\upeta}$ $\tilde{\upzeta}$ $\tilde{\Theta}$ $\tilde{\uptheta}$ $\tilde{\upvartheta}$ $\tilde{\Sigma}$ $\tilde{\upsigma}$ $\tilde{\upvarsigma}$ $\tilde{\uptau}$ $\tilde{\Upsilon}$ $\tilde{\upupsilon}$ $\tilde{\Phi}$ $\tilde{\upphi}$ $\tilde{\upchi}$
$\tilde{\Psi}$ $\tilde{\uppsi}$ $\tilde{\Omega}$ $\tilde{\upomega}$

Symbols

These arrows should join up properly:

$$a \hookrightarrow b \hookleftarrow c \longrightarrow d \longleftarrow e \Longrightarrow f \Longleftarrow g \longleftrightarrow h \Longleftrightarrow i \mapsto j$$

These symbols should of similar weights:

$$\pm + - \mp = / \backslash (\langle [\{ \}] \rangle) < \leq > \geq$$

Are these the same size?

$$\oint \int \quad \bigodot \bigoplus \bigotimes \sum \prod \bigcup \bigcap \biguplus \bigwedge \bigvee \coprod$$

Are these?

$$\displaystyle \oint \int \quad \bigodot \bigoplus \bigotimes \sum \prod \bigcup \bigcap \biguplus \bigwedge \bigvee \coprod$$

Sizing

The subscripts should be appropriately sized:
(Some sizes left out.)

(`\tiny` omitted)
`\scriptsize`: $a_{c_e}, b_{d_f}, C_{E_G}, 0_{1_2}, a_{0_a}, 0_{a_0}, \sum_{i=0}^{\infty}$
`\footnotesize`: $a_{c_e}, b_{d_f}, C_{E_G}, 0_{1_2}, a_{0_a}, 0_{a_0}, \sum_{i=0}^{\infty}$
`\small`: $a_{c_e}, b_{d_f}, C_{E_G}, 0_{1_2}, a_{0_a}, 0_{a_0}, \sum_{i=0}^{\infty}$
`\normalsize`: $a_{c_e}, b_{d_f}, C_{E_G}, 0_{1_2}, a_{0_a}, 0_{a_0}, \sum_{i=0}^{\infty}$
`\large`: $a_{c_e}, b_{d_f}, C_{E_G}, 0_{1_2}, a_{0_a}, 0_{a_0}, \sum_{i=0}^{\infty}$
`\Large`: $a_{c_e}, b_{d_f}, C_{E_G}, 0_{1_2}, a_{0_a}, 0_{a_0}, \sum_{i=0}^{\infty}$
(`\LARGE` omitted)
`\huge`: $a_{c_e}, b_{d_f}, C_{E_G}, 0_{1_2}, a_{0_a}, 0_{a_0}, \sum_{i=0}^{\infty}$
(`\Huge` omitted)

Delimiters

Each row should be a different size, but within each row the delimiters should be the same size. First with `\big`, etc:

$$\sqrt{|\|\uparrow\downarrow\updownarrow\Uparrow\Downarrow\Updownarrow\lfloor\lceil(\{[\langle a\rangle]\})\rceil\rfloor\Updownarrow\Downarrow\Uparrow\updownarrow\downarrow\uparrow\||}$$

$$\sqrt{\big|\big\|\big\uparrow\big\downarrow\big\updownarrow\big\Uparrow\big\Downarrow\big\Updownarrow\big\lfloor\big\lceil\big(\big\{\big[\big\langle a\big\rangle\big]\big\}\big)\big\rceil\big\rfloor\big\Updownarrow\big\Downarrow\big\Uparrow\big\updownarrow\big\downarrow\big\uparrow\big\|\big|}$$

$$\sqrt{\Big|\Big\|\Big\uparrow\Big\downarrow\Big\updownarrow\Big\Uparrow\Big\Downarrow\Big\Updownarrow\Big\lfloor\Big\lceil\Big(\Big\{\Big[\Big\langle a\Big\rangle\Big]\Big\}\Big)\Big\rceil\Big\rfloor\Big\Updownarrow\Big\Downarrow\Big\Uparrow\Big\updownarrow\Big\downarrow\Big\uparrow\Big\|\Big|}$$

$$\sqrt{\bigg|\bigg\|\bigg\uparrow\bigg\downarrow\bigg\updownarrow\bigg\Uparrow\bigg\Downarrow\bigg\Updownarrow\bigg\lfloor\bigg\lceil\bigg(\bigg\{\bigg[\bigg\langle a\bigg\rangle\bigg]\bigg\}\bigg)\bigg\rceil\bigg\rfloor\bigg\Updownarrow\bigg\Downarrow\bigg\Uparrow\bigg\updownarrow\bigg\downarrow\bigg\uparrow\bigg\|\bigg|}$$

$$\sqrt{\Bigg|\Bigg\|\Bigg\uparrow\Bigg\downarrow\Bigg\updownarrow\Bigg\Uparrow\Bigg\Downarrow\Bigg\Updownarrow\Bigg\lfloor\Bigg\lceil\Bigg(\Bigg\{\Bigg[\Bigg\langle a\Bigg\rangle\Bigg]\Bigg\}\Bigg)\Bigg\rceil\Bigg\rfloor\Bigg\Updownarrow\Bigg\Downarrow\Bigg\Uparrow\Bigg\updownarrow\Bigg\downarrow\Bigg\uparrow\Bigg\|\Bigg|}$$

Then with `\left` and `\right`:

$$\sqrt{\left|\left\|\left\uparrow\left\downarrow\left\updownarrow\left\Uparrow\left\Downarrow\left\Updownarrow\left\lfloor\left\lceil\left(\left\{\left[\left\langle \begin{matrix}a\end{matrix}\right\rangle\right]\right\}\right)\right\rceil\right\rfloor\right\Updownarrow\right\Downarrow\right\Uparrow\right\updownarrow\right\downarrow\right\uparrow\right\|\right|}$$

$$\sqrt{\left|\left\|\left\uparrow\left\downarrow\left\updownarrow\left\Uparrow\left\Downarrow\left\Updownarrow\left\lfloor\left\lceil\left(\left\{\left[\left\langle \begin{matrix}a\\a\end{matrix}\right\rangle\right]\right\}\right)\right\rceil\right\rfloor\right\Updownarrow\right\Downarrow\right\Uparrow\right\updownarrow\right\downarrow\right\uparrow\right\|\right|}$$

$$\sqrt{\left|\left\|\left\uparrow\left\downarrow\left\updownarrow\left\Uparrow\left\Downarrow\left\Updownarrow\left\lfloor\left\lceil\left(\left\{\left[\left\langle \begin{matrix}a\\a\\a\end{matrix}\right\rangle\right]\right\}\right)\right\rceil\right\rfloor\right\Updownarrow\right\Downarrow\right\Uparrow\right\updownarrow\right\downarrow\right\uparrow\right\|\right|}$$

$$\sqrt{\left|\left\|\left\uparrow\left\downarrow\left\updownarrow\left\Uparrow\left\Downarrow\left\Updownarrow\left\lfloor\left\lceil\left(\left\{\left[\left\langle \begin{matrix}a\\a\\a\\a\end{matrix}\right\rangle\right]\right\}\right)\right\rceil\right\rfloor\right\Updownarrow\right\Downarrow\right\Uparrow\right\updownarrow\right\downarrow\right\uparrow\right\|\right|}$$

Spacing

This paragraph should appear to be a monotone grey texture. Well, in the bolder math versions the math will stick out... Suppose $f \in \mathcal{S}_n$ and $g(x) = (-1)^{|\alpha|}x^\alpha f(x)$. Then $g \in \mathcal{S}_n$; now (c) implies that $\hat{g} = D_\alpha \hat{f}$ and $P \cdot D_\alpha \hat{f} = P \cdot \hat{g} = (P(D)g)\hat{}$, which is a bounded function, since $P(D)g \in L^1(R^n)$. This proves that $\hat{f} \in \mathcal{S}_n$. If $f_i \to f$ in $\mathcal{S}_n$, then $f_i \to f$ in $L^1(R^n)$. Therefore $\hat{f}_i(t) \to \hat{f}(t)$ for all $t \in R^n$. That $f \to \hat{f}$ is a *continuous* mapping of $\mathcal{S}_n$ into $\mathcal{S}_n$ follows now from the closed graph theorem. *Functional Analysis*, W. Rudin, McGraw–Hill, 1973.

The text in these boxes should spread out as much as the math does:

For example $x+y=\min\{x,y\}+\max\{x,y\}$ is a formula.

For example $x+y=\min\{x,y\}+\max\{x,y\}$ is a formula.

For example $x+y=\min\{x,y\}+\max\{x,y\}$ is a formula.

For example $x+y=\min\{x,y\}+\max\{x,y\}$ is a formula.

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For example $x+y=\min\{x,y\}+\max\{x,y\}$ is a formula.

For example $x+y=\min\{x,y\}+\max\{x,y\}$ is a formula.

3 `\boldmath` version

Fonts and Accents

Math italic (`\mathnormal`):

$\boldsymbol{ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz\imath\jmath\grave{x}\acute{x}\hat{x}\tilde{x}\ddot{x}\breve{x}\check{x}\bar{x}\dot{x}\overline{x}}$

Text italic (`\mathit`):

$\boldsymbol{\mathit{ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz}\grave{x}\acute{x}\hat{x}\tilde{x}\ddot{x}\breve{x}\check{x}\bar{x}\dot{x}\overline{x}}$

Roman (`\mathrm`):

$\boldsymbol{\mathrm{ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz\grave{x}\acute{x}\hat{x}\tilde{x}\ddot{x}\breve{x}\check{x}\bar{x}\dot{x}\overline{x}}}$

Bold (`\mathbf`):

$\mathbf{ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz\grave{x}\acute{x}\hat{x}\tilde{x}\ddot{x}\breve{x}\check{x}\bar{x}\dot{x}\overline{x}}$

Calligraphic (`\mathcal`) upper case:

$\boldsymbol{\mathcal{ABCDEFGHIJKLMNOPQRSTUVWXYZ}}$

Calligraphic (`\mathcal`) lower case:

$\boldsymbol{\mathcal{abcdefghijklmnopqrstuvwxyz}}$

Test the “`\script`” (a form of `\mathscr`) command and its starred form:

$\boldsymbol{\mathscr{ABCD}\ldots}$ starred:

Sans (`\mathsf`):

$\boldsymbol{\mathsf{ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz\grave{x}\acute{x}\hat{x}\tilde{x}\ddot{x}\breve{x}\check{x}\bar{x}\dot{x}\overline{x}}}$

Typewriter (`\mathtt`):

$\boldsymbol{\mathtt{ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz\grave{x}\acute{x}\hat{x}\tilde{x}\ddot{x}\breve{x}\check{x}\bar{x}\dot{x}\overline{x}}}$

Greek (lower case italic):

$\boldsymbol{\Gamma\Delta\Theta\Lambda\Xi\Pi\Sigma\Upsilon\Phi\Psi\Omega\alpha\beta\gamma\delta\epsilon\varepsilon\zeta\eta\theta\vartheta\iota\kappa\varkappa\lambda\mu\nu\xi o\pi\varpi\rho\varrho\sigma\varsigma\tau\upsilon\phi\varphi\chi\psi\omega}$

Italic upper case Greek (`\var...`):

$\boldsymbol{\varGamma\varDelta\varTheta\varLambda\varXi\varPi\varSigma\varUpsilon\varPhi\varPsi\varOmega\grave{\varDelta}\acute{\varDelta}\hat{\varDelta}\tilde{\varDelta}\ddot{\varDelta}\breve{\varDelta}\check{\varDelta}\bar{\varDelta}\dot{\varDelta}\overline{\varDelta}}$

Upright lowercase Greek, incl. ligatures (`\mathgr`):

αβΓγΔδϵεηζΘθϑκϰΛλμνΞξΠπϖρϱΣσςτϒυΦϕχΨψΩω$\boldsymbol{\grave{\eta}\acute{\eta}\hat{\eta}\tilde{\eta}\ddot{\eta}\breve{\eta}\check{\eta}\bar{\eta}\dot{\eta}\overline{\eta}}$

Upright Greek in text, no space between letters (`\textgr`):
αβΓγΔδϵηζΘθκΛλμνΞξΠπρΣστϒυΦϕχΨψΩω

Do these line up appropriately? (Check out the `\hbar`.)

$\boldsymbol{\forall\mathscr{B}\Gamma D\exists F\mathcal{G}\mathcal{H}\Im J K\Lambda M\aleph\emptyset\Pi Q\Re\Sigma T\Upsilon\mathcal{V}W\Xi\Upsilon Z\angle S \quad ac\epsilon\imath\kappa m v o\varpi r s\tau u v w z g j q\chi y \quad b\delta f h k l\phi\hbar\cap\cup}$

Math mode symbols: $\boldsymbol{\dagger\ddagger\S\P}$, and the same in text mode: †, ‡, §, ¶, and in bold series: **†, ‡, §, ¶**.

Text mode symbols: ©, ®, and in bold series: **©, ®**.

Oldstyle digits (Computer Modern): 1234567890; in math: $\boldsymbol{\oldstylenums{1234567890}}$.

Active underscore: compare $\boldsymbol{A_j}$ vs. $\boldsymbol{A_{j}}$; the underscore kern has been blocked in the second case.

Glyph dimensions

These glyphs should be optically centered:

$|a|\ |b|\ |c|\ |d|\ |e|\ |f|\ |g|\ |h|\ |i|\ |j|\ |k|\ |l|\ |m|\ |n|\ |o|\ |p|\ |q|\ |r|$
$|s|\ |t|\ |u|\ |v|\ |w|\ |x|\ |y|\ |z|\ |A|\ |B|\ |C|\ |D|\ |E|\ |F|\ |G|\ |H|$
$|I|\ |J|\ |K|\ |L|\ |M|\ |N|\ |O|\ |P|\ |Q|\ |R|\ |S|\ |T|\ |U|\ |V|\ |W|$
$|X|\ |Y|\ |Z|\ |0|\ |1|\ |2|\ |3|\ |4|\ |5|\ |6|\ |7|\ |8|\ |9|\ |\Gamma|\ |\Delta|\ |\Theta|\ |\Lambda|$
$|\Xi|\ |\Pi|\ |\Sigma|\ |\Upsilon|\ |\Phi|\ |\Psi|\ |\Omega|\ |\mathit{\Gamma}|\ |\mathit{\Delta}|\ |\mathit{\Theta}|\ |\mathit{\Lambda}|\ |\mathit{\Xi}|\ |\mathit{\Pi}|\ |\mathit{\Sigma}|\ |\mathit{\Upsilon}|$
$|\mathit{\Phi}|\ |\mathit{\Psi}|\ |\mathit{\Omega}|\ |\alpha|\ |\beta|\ |\gamma|\ |\delta|\ |\epsilon|\ |\varepsilon|\ |\zeta|\ |\eta|\ |\theta|\ |\vartheta|\ |\iota|\ |\kappa|\ |\varkappa|\ |\lambda|$
$|\mu|\ |\nu|\ |\xi|\ |o|\ |\pi|\ |\varpi|\ |\rho|\ |\varrho|\ |\sigma|\ |\varsigma|\ |\tau|\ |\upsilon|\ |\phi|\ |\varphi|\ |\chi|\ |\psi|\ |\omega|$
$|\partial|\ |\ell|\ |\imath|\ |\jmath|\ |\wp|\ |\mathcal{A}|\ |\mathcal{B}|\ |\mathcal{C}|\ |\mathcal{D}|\ |\mathcal{E}|\ |\mathcal{F}|\ |\mathcal{G}|\ |\mathcal{H}|\ |\mathcal{I}|\ |\mathcal{J}|$
$|\mathcal{K}|\ |\mathcal{L}|\ |\mathcal{M}|\ |\mathcal{N}|\ |\mathcal{O}|\ |\mathcal{P}|\ |\mathcal{Q}|\ |\mathcal{R}|\ |\mathcal{S}|\ |\mathcal{T}|\ |\mathcal{U}|\ |\mathcal{V}|\ |\mathcal{W}|$
$|\mathcal{X}|\ |\mathcal{Y}|\ |\mathcal{Z}|\ |\mathscr{a}|\ |\mathscr{b}|\ |\mathscr{c}|\ |\mathscr{d}|\ |\mathscr{e}|\ |\mathscr{f}|\ |\mathscr{g}|\ |\mathscr{h}|\ |\mathscr{i}|\ |\mathscr{j}|\ |\mathscr{k}|\ |\mathscr{l}|$
$|\mathscr{m}|\ |\mathscr{n}|\ |\mathscr{o}|\ |\mathscr{p}|\ |\mathscr{q}|\ |\mathscr{r}|\ |\mathscr{s}|\ |\mathscr{t}|\ |\mathscr{u}|\ |\mathscr{v}|\ |\mathscr{w}|\ |\mathscr{x}|\ |\mathscr{y}|\ |\mathscr{z}|$
$|\upalpha|\ |\upbeta|\ |\Gamma|\ |\upgamma|\ |\Delta|\ |\updelta|\ |\upepsilon|\ |\upvarepsilon|\ |\upeta|\ |\upzeta|\ |\Theta|\ |\uptheta|\ |\upvartheta|\ |\Sigma|\ |\upsigma|\ |\upvarsigma|$
$|\uptau|\ |\Upsilon|\ |\upupsilon|\ |\Phi|\ |\upphi|\ |\upchi|\ |\Psi|\ |\uppsi|\ |\Omega|\ |\upomega|$

These subscripts should be correctly placed:

$a_\circ\ b_\circ\ c_\circ\ d_\circ\ e_\circ\ f_\circ\ g_\circ\ h_\circ\ i_\circ\ j_\circ\ k_\circ\ l_\circ\ m_\circ\ n_\circ\ o_\circ\ p_\circ\ q_\circ\ r_\circ\ s_\circ\ t_\circ\ u_\circ$
$v_\circ\ w_\circ\ x_\circ\ y_\circ\ z_\circ\ A_\circ\ B_\circ\ C_\circ\ D_\circ\ E_\circ\ F_\circ\ G_\circ\ H_\circ\ I_\circ\ J_\circ\ K_\circ\ L_\circ\ M_\circ\ N_\circ$
$O_\circ\ P_\circ\ Q_\circ\ R_\circ\ S_\circ\ T_\circ\ U_\circ\ V_\circ\ W_\circ\ X_\circ\ Y_\circ\ Z_\circ\ 0_\circ\ 1_\circ\ 2_\circ\ 3_\circ\ 4_\circ\ 5_\circ\ 6_\circ$
$7_\circ\ 8_\circ\ 9_\circ\ \Gamma_\circ\ \Delta_\circ\ \Theta_\circ\ \Lambda_\circ\ \Xi_\circ\ \Pi_\circ\ \Sigma_\circ\ \Upsilon_\circ\ \Phi_\circ\ \Psi_\circ\ \Omega_\circ\ \mathit{\Gamma}_\circ\ \mathit{\Delta}_\circ\ \mathit{\Theta}_\circ\ \mathit{\Lambda}_\circ$
$\mathit{\Xi}_\circ\ \mathit{\Pi}_\circ\ \mathit{\Sigma}_\circ\ \mathit{\Upsilon}_\circ\ \mathit{\Phi}_\circ\ \mathit{\Psi}_\circ\ \mathit{\Omega}_\circ\ \alpha_\circ\ \beta_\circ\ \gamma_\circ\ \delta_\circ\ \epsilon_\circ\ \varepsilon_\circ\ \zeta_\circ\ \eta_\circ\ \theta_\circ\ \vartheta_\circ\ \iota_\circ\ \kappa_\circ\ \varkappa_\circ$
$\lambda_\circ\ \mu_\circ\ \nu_\circ\ \xi_\circ\ o_\circ\ \pi_\circ\ \varpi_\circ\ \rho_\circ\ \varrho_\circ\ \sigma_\circ\ \varsigma_\circ\ \tau_\circ\ \upsilon_\circ\ \phi_\circ\ \varphi_\circ\ \chi_\circ\ \psi_\circ\ \omega_\circ\ \partial_\circ\ \ell_\circ\ \imath_\circ$
$\jmath_\circ\ \wp_\circ\ \mathcal{A}_\circ\ \mathcal{B}_\circ\ \mathcal{C}_\circ\ \mathcal{D}_\circ\ \mathcal{E}_\circ\ \mathcal{F}_\circ\ \mathcal{G}_\circ\ \mathcal{H}_\circ\ \mathcal{I}_\circ\ \mathcal{J}_\circ\ \mathcal{K}_\circ\ \mathcal{L}_\circ\ \mathcal{M}_\circ\ \mathcal{N}_\circ$
$\mathcal{O}_\circ\ \mathcal{P}_\circ\ \mathcal{Q}_\circ\ \mathcal{R}_\circ\ \mathcal{S}_\circ\ \mathcal{T}_\circ\ \mathcal{U}_\circ\ \mathcal{V}_\circ\ \mathcal{W}_\circ\ \mathcal{X}_\circ\ \mathcal{Y}_\circ\ \mathcal{Z}_\circ\ \mathscr{a}_\circ\ \mathscr{b}_\circ\ \mathscr{c}_\circ\ \mathscr{d}_\circ$
$\mathscr{e}_\circ\ \mathscr{f}_\circ\ \mathscr{g}_\circ\ \mathscr{h}_\circ\ \mathscr{i}_\circ\ \mathscr{j}_\circ\ \mathscr{k}_\circ\ \mathscr{l}_\circ\ \mathscr{m}_\circ\ \mathscr{n}_\circ\ \mathscr{o}_\circ\ \mathscr{p}_\circ\ \mathscr{q}_\circ\ \mathscr{r}_\circ\ \mathscr{s}_\circ\ \mathscr{t}_\circ\ \mathscr{u}_\circ$
$\mathscr{v}_\circ\ \mathscr{w}_\circ\ \mathscr{x}_\circ\ \mathscr{y}_\circ\ \mathscr{z}_\circ\ \upalpha_\circ\ \upbeta_\circ\ \Gamma_\circ\ \upgamma_\circ\ \Delta_\circ\ \updelta_\circ\ \upepsilon_\circ\ \upvarepsilon_\circ\ \upeta_\circ\ \upzeta_\circ\ \Theta_\circ\ \uptheta_\circ$
$\upvartheta_\circ\ \Sigma_\circ\ \upsigma_\circ\ \upvarsigma_\circ\ \uptau_\circ\ \Upsilon_\circ\ \upupsilon_\circ\ \Phi_\circ\ \upphi_\circ\ \upchi_\circ\ \Psi_\circ\ \uppsi_\circ\ \Omega_\circ\ \upomega_\circ$

These superscripts should be correctly placed:

$a^\circ\ b^\circ\ c^\circ\ d^\circ\ e^\circ\ f^\circ\ g^\circ\ h^\circ\ i^\circ\ j^\circ\ k^\circ\ l^\circ\ m^\circ\ n^\circ\ o^\circ\ p^\circ\ q^\circ\ r^\circ\ s^\circ\ t^\circ\ u^\circ$
$v^\circ\ w^\circ\ x^\circ\ y^\circ\ z^\circ\ A^\circ\ B^\circ\ C^\circ\ D^\circ\ E^\circ\ F^\circ\ G^\circ\ H^\circ\ I^\circ\ J^\circ\ K^\circ\ L^\circ\ M^\circ$
$N^\circ\ O^\circ\ P^\circ\ Q^\circ\ R^\circ\ S^\circ\ T^\circ\ U^\circ\ V^\circ\ W^\circ\ X^\circ\ Y^\circ\ Z^\circ\ 0^\circ\ 1^\circ\ 2^\circ\ 3^\circ\ 4^\circ$
$5^\circ\ 6^\circ\ 7^\circ\ 8^\circ\ 9^\circ\ \Gamma^\circ\ \Delta^\circ\ \Theta^\circ\ \Lambda^\circ\ \Xi^\circ\ \Pi^\circ\ \Sigma^\circ\ \Upsilon^\circ\ \Phi^\circ\ \Psi^\circ\ \Omega^\circ\ \mathit{\Gamma}^\circ\ \mathit{\Delta}^\circ$
$\mathit{\Theta}^\circ\ \mathit{\Lambda}^\circ\ \mathit{\Xi}^\circ\ \mathit{\Pi}^\circ\ \mathit{\Sigma}^\circ\ \mathit{\Upsilon}^\circ\ \mathit{\Phi}^\circ\ \mathit{\Psi}^\circ\ \mathit{\Omega}^\circ\ \alpha^\circ\ \beta^\circ\ \gamma^\circ\ \delta^\circ\ \epsilon^\circ\ \varepsilon^\circ\ \zeta^\circ\ \eta^\circ\ \theta^\circ\ \vartheta^\circ$
$\iota^\circ\ \kappa^\circ\ \varkappa^\circ\ \lambda^\circ\ \mu^\circ\ \nu^\circ\ \xi^\circ\ o^\circ\ \pi^\circ\ \varpi^\circ\ \rho^\circ\ \varrho^\circ\ \sigma^\circ\ \varsigma^\circ\ \tau^\circ\ \upsilon^\circ\ \phi^\circ\ \varphi^\circ\ \chi^\circ\ \psi^\circ$
$\omega^\circ\ \partial^\circ\ \ell^\circ\ \imath^\circ\ \jmath^\circ\ \wp^\circ\ \mathcal{A}^\circ\ \mathcal{B}^\circ\ \mathcal{C}^\circ\ \mathcal{D}^\circ\ \mathcal{E}^\circ\ \mathcal{F}^\circ\ \mathcal{G}^\circ\ \mathcal{H}^\circ\ \mathcal{I}^\circ\ \mathcal{J}^\circ\ \mathcal{K}^\circ$
$\mathcal{L}^\circ\ \mathcal{M}^\circ\ \mathcal{N}^\circ\ \mathcal{O}^\circ\ \mathcal{P}^\circ\ \mathcal{Q}^\circ\ \mathcal{R}^\circ\ \mathcal{S}^\circ\ \mathcal{T}^\circ\ \mathcal{U}^\circ\ \mathcal{V}^\circ\ \mathcal{W}^\circ\ \mathcal{X}^\circ\ \mathcal{Y}^\circ\ \mathcal{Z}^\circ$
$\mathscr{a}^\circ\ \mathscr{b}^\circ\ \mathscr{c}^\circ\ \mathscr{d}^\circ\ \mathscr{e}^\circ\ \mathscr{f}^\circ\ \mathscr{g}^\circ\ \mathscr{h}^\circ\ \mathscr{i}^\circ\ \mathscr{j}^\circ\ \mathscr{k}^\circ\ \mathscr{l}^\circ\ \mathscr{m}^\circ\ \mathscr{n}^\circ\ \mathscr{o}^\circ\ \mathscr{p}^\circ\ \mathscr{q}^\circ$
$\mathscr{r}^\circ\ \mathscr{s}^\circ\ \mathscr{t}^\circ\ \mathscr{u}^\circ\ \mathscr{v}^\circ\ \mathscr{w}^\circ\ \mathscr{x}^\circ\ \mathscr{y}^\circ\ \mathscr{z}^\circ\ \upalpha^\circ\ \upbeta^\circ\ \Gamma^\circ\ \upgamma^\circ\ \Delta^\circ\ \updelta^\circ\ \upepsilon^\circ\ \upvarepsilon^\circ$
$\upeta^\circ\ \upzeta^\circ\ \Theta^\circ\ \uptheta^\circ\ \upvartheta^\circ\ \Sigma^\circ\ \upsigma^\circ\ \upvarsigma^\circ\ \uptau^\circ\ \Upsilon^\circ\ \upupsilon^\circ\ \Phi^\circ\ \upphi^\circ\ \upchi^\circ\ \Psi^\circ\ \uppsi^\circ\ \Omega^\circ$
$\upomega^\circ$

These subscripts and superscripts should be correctly placed:

$a_\circ^\circ\ b_\circ^\circ\ c_\circ^\circ\ d_\circ^\circ\ e_\circ^\circ\ f_\circ^\circ\ g_\circ^\circ\ h_\circ^\circ\ i_\circ^\circ\ j_\circ^\circ\ k_\circ^\circ\ l_\circ^\circ\ m_\circ^\circ\ n_\circ^\circ\ o_\circ^\circ\ p_\circ^\circ\ q_\circ^\circ\ r_\circ^\circ\ s_\circ^\circ\ t_\circ^\circ\ u_\circ^\circ$
$v_\circ^\circ\ w_\circ^\circ\ x_\circ^\circ\ y_\circ^\circ\ z_\circ^\circ\ A_\circ^\circ\ B_\circ^\circ\ C_\circ^\circ\ D_\circ^\circ\ E_\circ^\circ\ F_\circ^\circ\ G_\circ^\circ\ H_\circ^\circ\ I_\circ^\circ\ J_\circ^\circ\ K_\circ^\circ\ L_\circ^\circ\ M_\circ^\circ$

$$N^{\circ}_{\circ}\ O^{\circ}_{\circ}\ P^{\circ}_{\circ}\ Q^{\circ}_{\circ}\ R^{\circ}_{\circ}\ S^{\circ}_{\circ}\ T^{\circ}_{\circ}\ U^{\circ}_{\circ}\ V^{\circ}_{\circ}\ W^{\circ}_{\circ}\ X^{\circ}_{\circ}\ Y^{\circ}_{\circ}\ Z^{\circ}_{\circ}\ 0^{\circ}_{\circ}\ 1^{\circ}_{\circ}\ 2^{\circ}_{\circ}\ 3^{\circ}_{\circ}\ 4^{\circ}_{\circ}$$
$$5^{\circ}_{\circ}\ 6^{\circ}_{\circ}\ 7^{\circ}_{\circ}\ 8^{\circ}_{\circ}\ 9^{\circ}_{\circ}\ \Gamma^{\circ}_{\circ}\ \Delta^{\circ}_{\circ}\ \Theta^{\circ}_{\circ}\ \Lambda^{\circ}_{\circ}\ \Xi^{\circ}_{\circ}\ \Pi^{\circ}_{\circ}\ \Sigma^{\circ}_{\circ}\ \Upsilon^{\circ}_{\circ}\ \Phi^{\circ}_{\circ}\ \Psi^{\circ}_{\circ}\ \Omega^{\circ}_{\circ}\ \mathit{\Gamma}^{\circ}_{\circ}\ \mathit{\Delta}^{\circ}_{\circ}$$
$$\mathit{\Theta}^{\circ}_{\circ}\ \mathit{\Lambda}^{\circ}_{\circ}\ \mathit{\Xi}^{\circ}_{\circ}\ \mathit{\Pi}^{\circ}_{\circ}\ \mathit{\Sigma}^{\circ}_{\circ}\ \mathit{\Upsilon}^{\circ}_{\circ}\ \mathit{\Phi}^{\circ}_{\circ}\ \mathit{\Psi}^{\circ}_{\circ}\ \mathit{\Omega}^{\circ}_{\circ}\ \alpha^{\circ}_{\circ}\ \beta^{\circ}_{\circ}\ \gamma^{\circ}_{\circ}\ \delta^{\circ}_{\circ}\ \epsilon^{\circ}_{\circ}\ \varepsilon^{\circ}_{\circ}\ \zeta^{\circ}_{\circ}\ \eta^{\circ}_{\circ}\ \theta^{\circ}_{\circ}\ \vartheta^{\circ}_{\circ}$$
$$\iota^{\circ}_{\circ}\ \kappa^{\circ}_{\circ}\ \varkappa^{\circ}_{\circ}\ \lambda^{\circ}_{\circ}\ \mu^{\circ}_{\circ}\ \nu^{\circ}_{\circ}\ \xi^{\circ}_{\circ}\ o^{\circ}_{\circ}\ \pi^{\circ}_{\circ}\ \varpi^{\circ}_{\circ}\ \rho^{\circ}_{\circ}\ \varrho^{\circ}_{\circ}\ \sigma^{\circ}_{\circ}\ \varsigma^{\circ}_{\circ}\ \tau^{\circ}_{\circ}\ \upsilon^{\circ}_{\circ}\ \phi^{\circ}_{\circ}\ \varphi^{\circ}_{\circ}\ \chi^{\circ}_{\circ}\ \psi^{\circ}_{\circ}$$
$$\omega^{\circ}_{\circ}\ \partial^{\circ}_{\circ}\ \ell^{\circ}_{\circ}\ \imath^{\circ}_{\circ}\ \jmath^{\circ}_{\circ}\ \wp^{\circ}_{\circ}\ \mathcal{A}^{\circ}_{\circ}\ \mathcal{B}^{\circ}_{\circ}\ \mathcal{C}^{\circ}_{\circ}\ \mathcal{D}^{\circ}_{\circ}\ \mathcal{E}^{\circ}_{\circ}\ \mathcal{F}^{\circ}_{\circ}\ \mathcal{G}^{\circ}_{\circ}\ \mathcal{H}^{\circ}_{\circ}\ \mathcal{I}^{\circ}_{\circ}\ \mathcal{J}^{\circ}_{\circ}\ \mathcal{K}^{\circ}_{\circ}$$
$$\mathcal{L}^{\circ}_{\circ}\ \mathcal{M}^{\circ}_{\circ}\ \mathcal{N}^{\circ}_{\circ}\ \mathcal{O}^{\circ}_{\circ}\ \mathcal{P}^{\circ}_{\circ}\ \mathcal{Q}^{\circ}_{\circ}\ \mathcal{R}^{\circ}_{\circ}\ \mathcal{S}^{\circ}_{\circ}\ \mathcal{T}^{\circ}_{\circ}\ \mathcal{U}^{\circ}_{\circ}\ \mathcal{V}^{\circ}_{\circ}\ \mathcal{W}^{\circ}_{\circ}\ \mathcal{X}^{\circ}_{\circ}\ \mathcal{Y}^{\circ}_{\circ}\ \mathcal{Z}^{\circ}_{\circ}$$
$$\mathscr{a}^{\circ}_{\circ}\ \mathscr{b}^{\circ}_{\circ}\ \mathscr{c}^{\circ}_{\circ}\ \mathscr{d}^{\circ}_{\circ}\ \mathscr{e}^{\circ}_{\circ}\ \mathscr{f}^{\circ}_{\circ}\ \mathscr{g}^{\circ}_{\circ}\ \mathscr{h}^{\circ}_{\circ}\ \mathscr{i}^{\circ}_{\circ}\ \mathscr{j}^{\circ}_{\circ}\ \mathscr{k}^{\circ}_{\circ}\ \mathscr{l}^{\circ}_{\circ}\ \mathscr{m}^{\circ}_{\circ}\ \mathscr{n}^{\circ}_{\circ}\ \mathscr{o}^{\circ}_{\circ}\ \mathscr{p}^{\circ}_{\circ}\ \mathscr{q}^{\circ}_{\circ}$$
$$\mathscr{r}^{\circ}_{\circ}\ \mathscr{s}^{\circ}_{\circ}\ \mathscr{t}^{\circ}_{\circ}\ \mathscr{u}^{\circ}_{\circ}\ \mathscr{v}^{\circ}_{\circ}\ \mathscr{w}^{\circ}_{\circ}\ \mathscr{x}^{\circ}_{\circ}\ \mathscr{y}^{\circ}_{\circ}\ \mathscr{z}^{\circ}_{\circ}\ \upalpha^{\circ}_{\circ}\ \upbeta^{\circ}_{\circ}\ \Gamma^{\circ}_{\circ}\ \upgamma^{\circ}_{\circ}\ \Delta^{\circ}_{\circ}\ \updelta^{\circ}_{\circ}\ \upepsilon^{\circ}_{\circ}\ \upvarepsilon^{\circ}_{\circ}$$
$$\upeta^{\circ}_{\circ}\ \upzeta^{\circ}_{\circ}\ \Theta^{\circ}_{\circ}\ \uptheta^{\circ}_{\circ}\ \upvartheta^{\circ}_{\circ}\ \Sigma^{\circ}_{\circ}\ \upsigma^{\circ}_{\circ}\ \upvarsigma^{\circ}_{\circ}\ \uptau^{\circ}_{\circ}\ \Upsilon^{\circ}_{\circ}\ \upupsilon^{\circ}_{\circ}\ \Phi^{\circ}_{\circ}\ \upphi^{\circ}_{\circ}\ \upchi^{\circ}_{\circ}\ \Psi^{\circ}_{\circ}\ \uppsi^{\circ}_{\circ}\ \Omega^{\circ}_{\circ}$$
$$\upomega^{\circ}_{\circ}$$

These accents should be centered:

$$\vec{a}\ \vec{b}\ \vec{c}\ \vec{d}\ \vec{e}\ \vec{f}\ \vec{g}\ \vec{h}\ \vec{i}\ \vec{j}\ \vec{k}\ \vec{l}\ \vec{m}\ \vec{n}\ \vec{o}\ \vec{p}\ \vec{q}\ \vec{r}\ \vec{s}\ \vec{t}\ \vec{u}\ \vec{v}\ \vec{w}\ \vec{x}\ \vec{y}\ \vec{z}\ \vec{A}\ \vec{B}$$
$$\vec{C}\ \vec{D}\ \vec{E}\ \vec{F}\ \vec{G}\ \vec{H}\ \vec{I}\ \vec{J}\ \vec{K}\ \vec{L}\ \vec{M}\ \vec{N}\ \vec{O}\ \vec{P}\ \vec{Q}\ \vec{R}\ \vec{S}\ \vec{T}\ \vec{U}\ \vec{V}\ \vec{W}\ \vec{X}\ \vec{Y}$$
$$\vec{Z}\ \vec{0}\ \vec{1}\ \vec{2}\ \vec{3}\ \vec{4}\ \vec{5}\ \vec{6}\ \vec{7}\ \vec{8}\ \vec{9}\ \vec{\Gamma}\ \vec{\Delta}\ \vec{\Theta}\ \vec{\Lambda}\ \vec{\Xi}\ \vec{\Pi}\ \vec{\Sigma}\ \vec{\Upsilon}\ \vec{\Phi}\ \vec{\Psi}\ \vec{\Omega}\ \vec{\mathit{\Gamma}}\ \vec{\mathit{\Delta}}\ \vec{\mathit{\Theta}}\ \vec{\mathit{\Lambda}}$$
$$\vec{\mathit{\Xi}}\ \vec{\mathit{\Pi}}\ \vec{\mathit{\Sigma}}\ \vec{\mathit{\Upsilon}}\ \vec{\mathit{\Phi}}\ \vec{\mathit{\Psi}}\ \vec{\mathit{\Omega}}\ \vec{\alpha}\ \vec{\beta}\ \vec{\gamma}\ \vec{\delta}\ \vec{\epsilon}\ \vec{\varepsilon}\ \vec{\zeta}\ \vec{\eta}\ \vec{\theta}\ \vec{\vartheta}\ \vec{\iota}\ \vec{\kappa}\ \vec{\varkappa}\ \vec{\lambda}\ \vec{\mu}\ \vec{\nu}\ \vec{\xi}\ \vec{o}\ \vec{\pi}\ \vec{\varpi}$$
$$\vec{\rho}\ \vec{\varrho}\ \vec{\sigma}\ \vec{\varsigma}\ \vec{\tau}\ \vec{\upsilon}\ \vec{\phi}\ \vec{\varphi}\ \vec{\chi}\ \vec{\psi}\ \vec{\omega}\ \vec{\partial}\ \vec{\ell}\ \vec{\imath}\ \vec{\jmath}\ \vec{\wp}\ \vec{\mathcal{A}}\ \vec{\mathcal{B}}\ \vec{\mathcal{C}}\ \vec{\mathcal{D}}\ \vec{\mathcal{E}}\ \vec{\mathcal{F}}\ \vec{\mathcal{G}}\ \vec{\mathcal{H}}$$
$$\vec{\mathcal{I}}\ \vec{\mathcal{J}}\ \vec{\mathcal{K}}\ \vec{\mathcal{L}}\ \vec{\mathcal{M}}\ \vec{\mathcal{N}}\ \vec{\mathcal{O}}\ \vec{\mathcal{P}}\ \vec{\mathcal{Q}}\ \vec{\mathcal{R}}\ \vec{\mathcal{S}}\ \vec{\mathcal{T}}\ \vec{\mathcal{U}}\ \vec{\mathcal{V}}\ \vec{\mathcal{W}}\ \vec{\mathcal{X}}\ \vec{\mathcal{Y}}\ \vec{\mathcal{Z}}\ \vec{\mathscr{a}}$$
$$\vec{\mathscr{b}}\ \vec{\mathscr{c}}\ \vec{\mathscr{d}}\ \vec{\mathscr{e}}\ \vec{\mathscr{f}}\ \vec{\mathscr{g}}\ \vec{\mathscr{h}}\ \vec{\mathscr{i}}\ \vec{\mathscr{j}}\ \vec{\mathscr{k}}\ \vec{\mathscr{l}}\ \vec{\mathscr{m}}\ \vec{\mathscr{n}}\ \vec{\mathscr{o}}\ \vec{\mathscr{p}}\ \vec{\mathscr{q}}\ \vec{\mathscr{r}}\ \vec{\mathscr{s}}\ \vec{\mathscr{t}}\ \vec{\mathscr{u}}\ \vec{\mathscr{v}}\ \vec{\mathscr{w}}$$
$$\vec{\mathscr{x}}\ \vec{\mathscr{y}}\ \vec{\mathscr{z}}\ \vec{\upalpha}\ \vec{\upbeta}\ \vec{\Gamma}\ \vec{\upgamma}\ \vec{\Delta}\ \vec{\updelta}\ \vec{\upepsilon}\ \vec{\upvarepsilon}\ \vec{\upeta}\ \vec{\upzeta}\ \vec{\Theta}\ \vec{\uptheta}\ \vec{\upvartheta}\ \vec{\Sigma}\ \vec{\upsigma}\ \vec{\upvarsigma}\ \vec{\uptau}\ \vec{\Upsilon}\ \vec{\upupsilon}\ \vec{\Phi}$$
$$\vec{\upphi}\ \vec{\upchi}\ \vec{\Psi}\ \vec{\uppsi}\ \vec{\Omega}\ \vec{\upomega}$$

As should these:

$$\tilde{a}\ \tilde{b}\ \tilde{c}\ \tilde{d}\ \tilde{e}\ \tilde{f}\ \tilde{g}\ \tilde{h}\ \tilde{i}\ \tilde{j}\ \tilde{k}\ \tilde{l}\ \tilde{m}\ \tilde{n}\ \tilde{o}\ \tilde{p}\ \tilde{q}\ \tilde{r}\ \tilde{s}\ \tilde{t}\ \tilde{u}\ \tilde{v}\ \tilde{w}\ \tilde{x}\ \tilde{y}\ \tilde{z}\ \tilde{A}\ \tilde{B}$$
$$\tilde{C}\ \tilde{D}\ \tilde{E}\ \tilde{F}\ \tilde{G}\ \tilde{H}\ \tilde{I}\ \tilde{J}\ \tilde{K}\ \tilde{L}\ \tilde{M}\ \tilde{N}\ \tilde{O}\ \tilde{P}\ \tilde{Q}\ \tilde{R}\ \tilde{S}\ \tilde{T}\ \tilde{U}\ \tilde{V}\ \tilde{W}\ \tilde{X}\ \tilde{Y}$$
$$\tilde{Z}\ \tilde{0}\ \tilde{1}\ \tilde{2}\ \tilde{3}\ \tilde{4}\ \tilde{5}\ \tilde{6}\ \tilde{7}\ \tilde{8}\ \tilde{9}\ \tilde{\Gamma}\ \tilde{\Delta}\ \tilde{\Theta}\ \tilde{\Lambda}\ \tilde{\Xi}\ \tilde{\Pi}\ \tilde{\Sigma}\ \tilde{\Upsilon}\ \tilde{\Phi}\ \tilde{\Psi}\ \tilde{\Omega}\ \tilde{\mathit{\Gamma}}\ \tilde{\mathit{\Delta}}\ \tilde{\mathit{\Theta}}\ \tilde{\mathit{\Lambda}}$$
$$\tilde{\mathit{\Xi}}\ \tilde{\mathit{\Pi}}\ \tilde{\mathit{\Sigma}}\ \tilde{\mathit{\Upsilon}}\ \tilde{\mathit{\Phi}}\ \tilde{\mathit{\Psi}}\ \tilde{\mathit{\Omega}}\ \tilde{\alpha}\ \tilde{\beta}\ \tilde{\gamma}\ \tilde{\delta}\ \tilde{\epsilon}\ \tilde{\varepsilon}\ \tilde{\zeta}\ \tilde{\eta}\ \tilde{\theta}\ \tilde{\vartheta}\ \tilde{\iota}\ \tilde{\kappa}\ \tilde{\varkappa}\ \tilde{\lambda}\ \tilde{\mu}\ \tilde{\nu}\ \tilde{\xi}\ \tilde{o}\ \tilde{\pi}\ \tilde{\varpi}$$
$$\tilde{\rho}\ \tilde{\varrho}\ \tilde{\sigma}\ \tilde{\varsigma}\ \tilde{\tau}\ \tilde{\upsilon}\ \tilde{\phi}\ \tilde{\varphi}\ \tilde{\chi}\ \tilde{\psi}\ \tilde{\omega}\ \tilde{\partial}\ \tilde{\ell}\ \tilde{\imath}\ \tilde{\jmath}\ \tilde{\wp}\ \tilde{\mathcal{A}}\ \tilde{\mathcal{B}}\ \tilde{\mathcal{C}}\ \tilde{\mathcal{D}}\ \tilde{\mathcal{E}}\ \tilde{\mathcal{F}}\ \tilde{\mathcal{G}}\ \tilde{\mathcal{H}}$$
$$\tilde{\mathcal{I}}\ \tilde{\mathcal{J}}\ \tilde{\mathcal{K}}\ \tilde{\mathcal{L}}\ \tilde{\mathcal{M}}\ \tilde{\mathcal{N}}\ \tilde{\mathcal{O}}\ \tilde{\mathcal{P}}\ \tilde{\mathcal{Q}}\ \tilde{\mathcal{R}}\ \tilde{\mathcal{S}}\ \tilde{\mathcal{T}}\ \tilde{\mathcal{U}}\ \tilde{\mathcal{V}}\ \tilde{\mathcal{W}}\ \tilde{\mathcal{X}}\ \tilde{\mathcal{Y}}\ \tilde{\mathcal{Z}}\ \tilde{\mathscr{a}}$$
$$\tilde{\mathscr{b}}\ \tilde{\mathscr{c}}\ \tilde{\mathscr{d}}\ \tilde{\mathscr{e}}\ \tilde{\mathscr{f}}\ \tilde{\mathscr{g}}\ \tilde{\mathscr{h}}\ \tilde{\mathscr{i}}\ \tilde{\mathscr{j}}\ \tilde{\mathscr{k}}\ \tilde{\mathscr{l}}\ \tilde{\mathscr{m}}\ \tilde{\mathscr{n}}\ \tilde{\mathscr{o}}\ \tilde{\mathscr{p}}\ \tilde{\mathscr{q}}\ \tilde{\mathscr{r}}\ \tilde{\mathscr{s}}\ \tilde{\mathscr{t}}\ \tilde{\mathscr{u}}\ \tilde{\mathscr{v}}\ \tilde{\mathscr{w}}$$
$$\tilde{\mathscr{x}}\ \tilde{\mathscr{y}}\ \tilde{\mathscr{z}}\ \tilde{\upalpha}\ \tilde{\upbeta}\ \tilde{\Gamma}\ \tilde{\upgamma}\ \tilde{\Delta}\ \tilde{\updelta}\ \tilde{\upepsilon}\ \tilde{\upvarepsilon}\ \tilde{\upeta}\ \tilde{\upzeta}\ \tilde{\Theta}\ \tilde{\uptheta}\ \tilde{\upvartheta}\ \tilde{\Sigma}\ \tilde{\upsigma}\ \tilde{\upvarsigma}\ \tilde{\uptau}\ \tilde{\Upsilon}\ \tilde{\upupsilon}\ \tilde{\Phi}$$
$$\tilde{\upphi}\ \tilde{\upchi}\ \tilde{\Psi}\ \tilde{\uppsi}\ \tilde{\Omega}\ \tilde{\upomega}$$

Symbols

These arrows should join up properly:

$$a \hookrightarrow b \hookleftarrow c \longrightarrow d \longleftarrow e \Longrightarrow f \Longleftarrow g \longleftrightarrow h \Longleftrightarrow i \mapsto j$$

These symbols should of similar weights:

$$\pm + - \mp = / \backslash (\langle [\{ \}] \rangle) < \leq > \geq$$

Are these the same size?

$$\oint \int \quad \odot \oplus \otimes \sum \prod \bigcup \bigcap \biguplus \bigwedge \bigvee \coprod$$

Are these?

$$\displaystyle \oint \int \quad \bigodot \bigoplus \bigotimes \sum \prod \bigcup \bigcap \biguplus \bigwedge \bigvee \coprod$$

Sizing

The subscripts should be appropriately sized:
(Some sizes left out.)

(`\tiny` omitted)

`\scriptsize`: $a_{c_e}, b_{d_f}, C_{E_G}, 0_{1_2}, a_{0_a}, 0_{a_0}, \sum_{i=0}^{\infty}$
`\footnotesize`: $a_{c_e}, b_{d_f}, C_{E_G}, 0_{1_2}, a_{0_a}, 0_{a_0}, \sum_{i=0}^{\infty}$
`\small`: $a_{c_e}, b_{d_f}, C_{E_G}, 0_{1_2}, a_{0_a}, 0_{a_0}, \sum_{i=0}^{\infty}$
`\normalsize`: $a_{c_e}, b_{d_f}, C_{E_G}, 0_{1_2}, a_{0_a}, 0_{a_0}, \sum_{i=0}^{\infty}$
`\large`: $a_{c_e}, b_{d_f}, C_{E_G}, 0_{1_2}, a_{0_a}, 0_{a_0}, \sum_{i=0}^{\infty}$
`\Large`: $a_{c_e}, b_{d_f}, C_{E_G}, 0_{1_2}, a_{0_a}, 0_{a_0}, \sum_{i=0}^{\infty}$
(`\LARGE` omitted)
`\huge`: $a_{c_e}, b_{d_f}, C_{E_G}, 0_{1_2}, a_{0_a}, 0_{a_0}, \sum_{i=0}^{\infty}$
(`\Huge` omitted)

Delimiters

Each row should be a different size, but within each row the delimiters should be the same size. First with `\big`, etc:

$$\sqrt{\big| \big\| \big\uparrow \big\downarrow \big\updownarrow \big\Uparrow \big\Downarrow \big\Updownarrow \big\lfloor \big\lceil \big(\big\{ \big[\big\langle a \big\rangle \big] \big\} \big) \big\rceil \big\rfloor \big\Updownarrow \big\Downarrow \big\Uparrow \big\updownarrow \big\downarrow \big\uparrow \big\| \big|}$$
$$\sqrt{\Big| \Big\| \Big\uparrow \Big\downarrow \Big\updownarrow \Big\Uparrow \Big\Downarrow \Big\Updownarrow \Big\lfloor \Big\lceil \Big(\Big\{ \Big[\Big\langle a \Big\rangle \Big] \Big\} \Big) \Big\rceil \Big\rfloor \Big\Updownarrow \Big\Downarrow \Big\Uparrow \Big\updownarrow \Big\downarrow \Big\uparrow \Big\| \Big|}$$
$$\sqrt{\bigg| \bigg\| \bigg\uparrow \bigg\downarrow \bigg\updownarrow \bigg\Uparrow \bigg\Downarrow \bigg\Updownarrow \bigg\lfloor \bigg\lceil \bigg(\bigg\{ \bigg[\bigg\langle a \bigg\rangle \bigg] \bigg\} \bigg) \bigg\rceil \bigg\rfloor \bigg\Updownarrow \bigg\Downarrow \bigg\Uparrow \bigg\updownarrow \bigg\downarrow \bigg\uparrow \bigg\| \bigg|}$$
$$\sqrt{\Bigg| \Bigg\| \Bigg\uparrow \Bigg\downarrow \Bigg\updownarrow \Bigg\Uparrow \Bigg\Downarrow \Bigg\Updownarrow \Bigg\lfloor \Bigg\lceil \Bigg(\Bigg\{ \Bigg[\Bigg\langle a \Bigg\rangle \Bigg] \Bigg\} \Bigg) \Bigg\rceil \Bigg\rfloor \Bigg\Updownarrow \Bigg\Downarrow \Bigg\Uparrow \Bigg\updownarrow \Bigg\downarrow \Bigg\uparrow \Bigg\| \Bigg|}$$
$$\sqrt{\Bigg| \Bigg\| \Bigg\uparrow \Bigg\downarrow \Bigg\updownarrow \Bigg\Uparrow \Bigg\Downarrow \Bigg\Updownarrow \Bigg\lfloor \Bigg\lceil \Bigg(\Bigg\{ \Bigg[\Bigg\langle a \Bigg\rangle \Bigg] \Bigg\} \Bigg) \Bigg\rceil \Bigg\rfloor \Bigg\Updownarrow \Bigg\Downarrow \Bigg\Uparrow \Bigg\updownarrow \Bigg\downarrow \Bigg\uparrow \Bigg\| \Bigg|}$$

Then with `\left` and `\right`:

$$\sqrt{\left| \left\| \left\uparrow \left\downarrow \left\updownarrow \left\Uparrow \left\Downarrow \left\Updownarrow \left\lfloor \left\lceil \left(\left\{ \left[\left\langle a \right\rangle \right] \right\} \right) \right\rceil \right\rfloor \right\Updownarrow \right\Downarrow \right\Uparrow \right\updownarrow \right\downarrow \right\uparrow \right\| \right|}$$
$$\sqrt{\left| \left\| \left\uparrow \left\downarrow \left\updownarrow \left\Uparrow \left\Downarrow \left\Updownarrow \left\lfloor \left\lceil \left(\left\{ \left[\left\langle \begin{matrix} a \\ a \end{matrix} \right\rangle \right] \right\} \right) \right\rceil \right\rfloor \right\Updownarrow \right\Downarrow \right\Uparrow \right\updownarrow \right\downarrow \right\uparrow \right\| \right|}$$
$$\sqrt{\left| \left\| \left\uparrow \left\downarrow \left\updownarrow \left\Uparrow \left\Downarrow \left\Updownarrow \left\lfloor \left\lceil \left(\left\{ \left[\left\langle \begin{matrix} a \\ a \\ a \end{matrix} \right\rangle \right] \right\} \right) \right\rceil \right\rfloor \right\Updownarrow \right\Downarrow \right\Uparrow \right\updownarrow \right\downarrow \right\uparrow \right\| \right|}$$
$$\sqrt{\left| \left\| \left\uparrow \left\downarrow \left\updownarrow \left\Uparrow \left\Downarrow \left\Updownarrow \left\lfloor \left\lceil \left(\left\{ \left[\left\langle \begin{matrix} a \\ a \\ a \\ a \end{matrix} \right\rangle \right] \right\} \right) \right\rceil \right\rfloor \right\Updownarrow \right\Downarrow \right\Uparrow \right\updownarrow \right\downarrow \right\uparrow \right\| \right|}$$

Spacing

This paragraph should appear to be a monotone grey texture. Well, in the bolder math versions the math will stick out... Suppose $f \in \mathcal{S}_n$ and $g(x) = (-1)^{|\alpha|} x^\alpha f(x)$. Then $g \in \mathcal{S}_n$; now (c) implies that $\hat{g} = D_\alpha \hat{f}$ and $P \cdot D_\alpha \hat{f} = P \cdot \hat{g} = (P(D)g)\hat{}$, which is a bounded function, since $P(D)g \in L^1(R^n)$. This proves that $\hat{f} \in \mathcal{S}_n$. If $f_i \to f$ in $\mathcal{S}_n$, then $f_i \to f$ in $L^1(R^n)$. Therefore $\hat{f}_i(t) \to \hat{f}(t)$ for all $t \in R^n$. That $f \to \hat{f}$ is a *continuous* mapping of $\mathcal{S}_n$ into $\mathcal{S}_n$ follows now from the closed graph theorem. *Functional Analysis*, W. Rudin, McGraw–Hill, 1973.

The text in these boxes should spread out as much as the math does:

For example $x + y = \mathbf{min}\{x, y\} + \mathbf{max}\{x, y\}$ is a formula.

For example $x + y = \mathbf{min}\{x, y\} + \mathbf{max}\{x, y\}$ is a formula.

For example $x + y = \mathbf{min}\{x, y\} + \mathbf{max}\{x, y\}$ is a formula.

For example $x + y = \mathbf{min}\{x, y\} + \mathbf{max}\{x, y\}$ is a formula.

For example $x + y = \mathbf{min}\{x, y\} + \mathbf{max}\{x, y\}$ is a formula.

For example $x + y = \mathbf{min}\{x, y\} + \mathbf{max}\{x, y\}$ is a formula.

For example $x + y = \mathbf{min}\{x, y\} + \mathbf{max}\{x, y\}$ is a formula.

4 `\heavymath` version

Note that some glyphs don't get bolder than in `\boldmath`, but, e.g., delimiters and some symbols do.

Fonts and Accents

Math italic (`\mathnormal`):

$$ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz\imath\jmath\grave{x}\acute{x}\hat{x}\tilde{x}\ddot{x}\check{x}\breve{x}\bar{x}\dot{x}\,\overline{x}$$

Text italic (`\mathit`):

$$\mathit{ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz}\grave{\mathit{x}}\acute{\mathit{x}}\hat{\mathit{x}}\tilde{\mathit{x}}\ddot{\mathit{x}}\check{\mathit{x}}\breve{\mathit{x}}\bar{\mathit{x}}\dot{\mathit{x}}\,\overline{\mathit{x}}$$

Roman (`\mathrm`):

$$\mathrm{ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz}\grave{\mathrm{x}}\acute{\mathrm{x}}\hat{\mathrm{x}}\tilde{\mathrm{x}}\ddot{\mathrm{x}}\check{\mathrm{x}}\breve{\mathrm{x}}\bar{\mathrm{x}}\dot{\mathrm{x}}\,\overline{\mathrm{x}}$$

Bold (`\mathbf`):

$$\mathbf{ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz}\grave{\mathbf{x}}\acute{\mathbf{x}}\hat{\mathbf{x}}\tilde{\mathbf{x}}\ddot{\mathbf{x}}\check{\mathbf{x}}\breve{\mathbf{x}}\bar{\mathbf{x}}\dot{\mathbf{x}}\,\overline{\mathbf{x}}$$

Calligraphic (`\mathcal`) upper case:

$$\mathcal{ABCDEFGHIJKLMNOPQRSTUVWXYZ}\mathcal{A}^{*}\mathcal{E}^{*}\mathcal{G}^{*}\mathcal{S}^{*}\mathcal{I}^{*}\mathcal{L}^{*}\mathcal{Q}^{*}\mathcal{S}^{*}\grave{\mathcal{G}}\acute{\mathcal{G}}\hat{\mathcal{G}}\tilde{\mathcal{G}}\ddot{\mathcal{G}}\check{\mathcal{G}}\breve{\mathcal{G}}\bar{\mathcal{G}}\dot{\mathcal{G}}\,\overline{\mathcal{G}}$$

Calligraphic (`\mathcal`) lower case:

$$\mathcal{abcdefghijklmnopqrstuvwxyz}\,\imath\jmath\grave{x}\acute{x}\hat{x}\tilde{x}\ddot{x}\check{x}\breve{x}\bar{x}\dot{x}\,\overline{x}$$

Test the "`\script`" (a form of `\mathscr`) command and its starred form:

$$\mathscr{ABCD}\ldots \quad \text{starred: } \mathscr{AEGSILQS}rz\imath\jmath$$

Sans (`\mathsf`):

$$\mathsf{ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz}\grave{\mathsf{x}}\acute{\mathsf{x}}\hat{\mathsf{x}}\tilde{\mathsf{x}}\ddot{\mathsf{x}}\check{\mathsf{x}}\breve{\mathsf{x}}\bar{\mathsf{x}}\dot{\mathsf{x}}\,\overline{\mathsf{x}}$$

Typewriter (`\mathtt`):

$$\mathtt{ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz}\grave{\mathtt{x}}\acute{\mathtt{x}}\hat{\mathtt{x}}\tilde{\mathtt{x}}\ddot{\mathtt{x}}\check{\mathtt{x}}\breve{\mathtt{x}}\bar{\mathtt{x}}\dot{\mathtt{x}}\,\overline{\mathtt{x}}$$

Greek (lower case italic):

$$\Gamma\Delta\Theta\Lambda\Xi\Pi\Sigma\Upsilon\Phi\Psi\Omega\alpha\beta\gamma\delta\epsilon\varepsilon\zeta\eta\theta\vartheta\iota\kappa\varkappa\lambda\mu\nu\xi o\pi\varpi\rho\varrho\sigma\varsigma\tau\upsilon\phi\varphi\chi\psi\omega$$

Italic upper case Greek (`\var...`):

$$\varGamma\varDelta\varTheta\varLambda\varXi\varPi\varSigma\varUpsilon\varPhi\varPsi\varOmega\grave{\varDelta}\acute{\varDelta}\hat{\varDelta}\tilde{\varDelta}\ddot{\varDelta}\check{\varDelta}\breve{\varDelta}\bar{\varDelta}\dot{\varDelta}\,\overline{\varDelta}$$

Upright lowercase Greek, incl. ligatures (`\mathgr`):

$$\alpha\beta\Gamma\gamma\Delta\delta\epsilon\varepsilon\eta\zeta\Theta\theta\vartheta\kappa\varkappa\Lambda\lambda\mu\nu\Xi\xi\Pi\pi\varpi\rho\varrho\Sigma\sigma\varsigma\tau\Upsilon\upsilon\Phi\phi\chi\Psi\psi\Omega\omega\grave{\eta}\acute{\eta}\hat{\eta}\tilde{\eta}\ddot{\eta}\check{\eta}\breve{\eta}\bar{\eta}\dot{\eta}\,\overline{\eta}$$

Upright Greek in text, no space between letters (\textgr):
αβΓγΔδϵηζΘθκΛλμνΞξΠπρΣστΥυΦϕχΨψΩω

Do these line up appropriately? (Check out the \hbar.)

$\forall\mathcal{B}\Gamma D\exists F G\mathcal{H}\Im J K\Lambda M\aleph\emptyset\Pi Q\Re\Sigma T\Upsilon\mathcal{V}W\Xi Y Z\angle S \quad a c\epsilon\imath\kappa m v o\varpi r s\tau u v w z g j q\chi y \quad b\delta f h k l\phi\hbar\cap\cup$

Math mode symbols: $\dagger\ddagger\S\P$, and the same in text mode: †, ‡, §, ¶, and in bold series: **†, ‡, §, ¶**.

Text mode symbols: ©, ®, and in bold series: **©, ®**.

Oldstyle digits (Computer Modern): $\oldstylenums{1234567890}$; in math: $\mathbf{\oldstylenums{1234567890}}$.

Active underscore: compare A_j vs. A_j; the underscore kern has been blocked in the second case.

Glyph dimensions

These glyphs should be optically centered:

$|a|\ |b|\ |c|\ |d|\ |e|\ |f|\ |g|\ |h|\ |i|\ |j|\ |k|\ |l|\ |m|\ |n|\ |o|\ |p|\ |q|$
$|r|\ |s|\ |t|\ |u|\ |v|\ |w|\ |x|\ |y|\ |z|\ |A|\ |B|\ |C|\ |D|\ |E|\ |F|\ |G|$
$|H|\ |I|\ |J|\ |K|\ |L|\ |M|\ |N|\ |O|\ |P|\ |Q|\ |R|\ |S|\ |T|\ |U|\ |V|$
$|W|\ |X|\ |Y|\ |Z|\ |0|\ |1|\ |2|\ |3|\ |4|\ |5|\ |6|\ |7|\ |8|\ |9|\ |\Gamma|\ |\Delta|$
$|\Theta|\ |\Lambda|\ |\Xi|\ |\Pi|\ |\Sigma|\ |\Upsilon|\ |\Phi|\ |\Psi|\ |\Omega|\ |\varGamma|\ |\varDelta|\ |\varTheta|\ |\varLambda|\ |\varXi|\ |\varPi|$
$|\varSigma|\ |\varUpsilon|\ |\varPhi|\ |\varPsi|\ |\varOmega|\ |\alpha|\ |\beta|\ |\gamma|\ |\delta|\ |\epsilon|\ |\varepsilon|\ |\zeta|\ |\eta|\ |\theta|\ |\vartheta|\ |\iota|$
$|\kappa|\ |\varkappa|\ |\lambda|\ |\mu|\ |\nu|\ |\xi|\ |o|\ |\pi|\ |\varpi|\ |\rho|\ |\varrho|\ |\sigma|\ |\varsigma|\ |\tau|\ |\upsilon|\ |\phi|$
$|\varphi|\ |\chi|\ |\psi|\ |\omega|\ |\partial|\ |\ell|\ |\imath|\ |\jmath|\ |\wp|\ |\mathcal{A}|\ |\mathcal{B}|\ |\mathcal{C}|\ |\mathcal{D}|\ |\mathcal{E}|\ |\mathcal{F}|$
$|\mathcal{G}|\ |\mathcal{H}|\ |\mathcal{I}|\ |\mathcal{J}|\ |\mathcal{K}|\ |\mathcal{L}|\ |\mathcal{M}|\ |\mathcal{N}|\ |\mathcal{O}|\ |\mathcal{P}|\ |\mathcal{Q}|\ |\mathcal{R}|\ |\mathcal{S}|$
$|\mathcal{T}|\ |\mathcal{U}|\ |\mathcal{V}|\ |\mathcal{W}|\ |\mathcal{X}|\ |\mathcal{Y}|\ |\mathcal{Z}|\ |\mathscr{a}|\ |\mathscr{b}|\ |\mathscr{c}|\ |\mathscr{d}|\ |\mathscr{e}|\ |\mathscr{f}|$
$|\mathscr{g}|\ |\mathscr{h}|\ |\mathscr{i}|\ |\mathscr{j}|\ |\mathscr{k}|\ |\mathscr{l}|\ |\mathscr{m}|\ |\mathscr{n}|\ |\mathscr{o}|\ |\mathscr{p}|\ |\mathscr{q}|\ |\mathscr{r}|\ |\mathscr{s}|\ |\mathscr{t}|$
$|\mathscr{u}|\ |\mathscr{v}|\ |\mathscr{w}|\ |\mathscr{x}|\ |\mathscr{y}|\ |\mathscr{z}|\ |\upalpha|\ |\upbeta|\ |\Gamma|\ |\upgamma|\ |\Delta|\ |\updelta|\ |\upepsilon|\ |\upvarepsilon|$
$|\upeta|\ |\upzeta|\ |\Theta|\ |\uptheta|\ |\upvartheta|\ |\Sigma|\ |\upsigma|\ |\upvarsigma|\ |\uptau|\ |\Upsilon|\ |\upupsilon|\ |\Phi|\ |\upphi|\ |\upchi|\ |\Psi|$
$|\uppsi|\ |\Omega|\ |\upomega|$

These subscripts should be correctly placed:

$a_\circ\ b_\circ\ c_\circ\ d_\circ\ e_\circ\ f_\circ\ g_\circ\ h_\circ\ i_\circ\ j_\circ\ k_\circ\ l_\circ\ m_\circ\ n_\circ\ o_\circ\ p_\circ\ q_\circ\ r_\circ\ s_\circ\ t_\circ$
$u_\circ\ v_\circ\ w_\circ\ x_\circ\ y_\circ\ z_\circ\ A_\circ\ B_\circ\ C_\circ\ D_\circ\ E_\circ\ F_\circ\ G_\circ\ H_\circ\ I_\circ\ J_\circ\ K_\circ\ L_\circ$
$M_\circ\ N_\circ\ O_\circ\ P_\circ\ Q_\circ\ R_\circ\ S_\circ\ T_\circ\ U_\circ\ V_\circ\ W_\circ\ X_\circ\ Y_\circ\ Z_\circ\ 0_\circ\ 1_\circ\ 2_\circ\ 3_\circ$
$4_\circ\ 5_\circ\ 6_\circ\ 7_\circ\ 8_\circ\ 9_\circ\ \Gamma_\circ\ \Delta_\circ\ \Theta_\circ\ \Lambda_\circ\ \Xi_\circ\ \Pi_\circ\ \Sigma_\circ\ \Upsilon_\circ\ \Phi_\circ\ \Psi_\circ\ \Omega_\circ\ \varGamma_\circ$
$\varDelta_\circ\ \varTheta_\circ\ \varLambda_\circ\ \varXi_\circ\ \varPi_\circ\ \varSigma_\circ\ \varUpsilon_\circ\ \varPhi_\circ\ \varPsi_\circ\ \varOmega_\circ\ \alpha_\circ\ \beta_\circ\ \gamma_\circ\ \delta_\circ\ \epsilon_\circ\ \varepsilon_\circ\ \zeta_\circ\ \eta_\circ$
$\theta_\circ\ \vartheta_\circ\ \iota_\circ\ \kappa_\circ\ \varkappa_\circ\ \lambda_\circ\ \mu_\circ\ \nu_\circ\ \xi_\circ\ o_\circ\ \pi_\circ\ \varpi_\circ\ \rho_\circ\ \varrho_\circ\ \sigma_\circ\ \varsigma_\circ\ \tau_\circ\ \upsilon_\circ\ \phi_\circ\ \varphi_\circ$
$\chi_\circ\ \psi_\circ\ \omega_\circ\ \partial_\circ\ \ell_\circ\ \imath_\circ\ \jmath_\circ\ \wp_\circ\ \mathcal{A}_\circ\ \mathcal{B}_\circ\ \mathcal{C}_\circ\ \mathcal{D}_\circ\ \mathcal{E}_\circ\ \mathcal{F}_\circ\ \mathcal{G}_\circ\ \mathcal{H}_\circ\ \mathcal{I}_\circ$
$\mathcal{J}_\circ\ \mathcal{K}_\circ\ \mathcal{L}_\circ\ \mathcal{M}_\circ\ \mathcal{N}_\circ\ \mathcal{O}_\circ\ \mathcal{P}_\circ\ \mathcal{Q}_\circ\ \mathcal{R}_\circ\ \mathcal{S}_\circ\ \mathcal{T}_\circ\ \mathcal{U}_\circ\ \mathcal{V}_\circ\ \mathcal{W}_\circ$
$\mathcal{X}_\circ\ \mathcal{Y}_\circ\ \mathcal{Z}_\circ\ \mathscr{a}_\circ\ \mathscr{b}_\circ\ \mathscr{c}_\circ\ \mathscr{d}_\circ\ \mathscr{e}_\circ\ \mathscr{f}_\circ\ \mathscr{g}_\circ\ \mathscr{h}_\circ\ \mathscr{i}_\circ\ \mathscr{j}_\circ\ \mathscr{k}_\circ\ \mathscr{l}_\circ\ \mathscr{m}_\circ$
$\mathscr{n}_\circ\ \mathscr{o}_\circ\ \mathscr{p}_\circ\ \mathscr{q}_\circ\ \mathscr{r}_\circ\ \mathscr{s}_\circ\ \mathscr{t}_\circ\ \mathscr{u}_\circ\ \mathscr{v}_\circ\ \mathscr{w}_\circ\ \mathscr{x}_\circ\ \mathscr{y}_\circ\ \mathscr{z}_\circ\ \upalpha_\circ\ \upbeta_\circ\ \Gamma_\circ$
$\upgamma_\circ\ \Delta_\circ\ \updelta_\circ\ \upepsilon_\circ\ \upvarepsilon_\circ\ \upeta_\circ\ \upzeta_\circ\ \Theta_\circ\ \uptheta_\circ\ \upvartheta_\circ\ \Sigma_\circ\ \upsigma_\circ\ \upvarsigma_\circ\ \uptau_\circ\ \Upsilon_\circ\ \upupsilon_\circ\ \Phi_\circ$
$\upphi_\circ\ \upchi_\circ\ \Psi_\circ\ \uppsi_\circ\ \Omega_\circ\ \upomega_\circ$

These superscripts should be correctly placed:

$a^\circ \; b^\circ \; c^\circ \; d^\circ \; e^\circ \; f^\circ \; g^\circ \; h^\circ \; i^\circ \; j^\circ \; k^\circ \; l^\circ \; m^\circ \; n^\circ \; o^\circ \; p^\circ \; q^\circ \; r^\circ \; s^\circ$
$t^\circ \; u^\circ \; v^\circ \; w^\circ \; x^\circ \; y^\circ \; z^\circ \; A^\circ \; B^\circ \; C^\circ \; D^\circ \; E^\circ \; F^\circ \; G^\circ \; H^\circ \; I^\circ \; J^\circ \; K^\circ$
$L^\circ \; M^\circ \; N^\circ \; O^\circ \; P^\circ \; Q^\circ \; R^\circ \; S^\circ \; T^\circ \; U^\circ \; V^\circ \; W^\circ \; X^\circ \; Y^\circ \; Z^\circ \; 0^\circ \; 1^\circ$
$2^\circ \; 3^\circ \; 4^\circ \; 5^\circ \; 6^\circ \; 7^\circ \; 8^\circ \; 9^\circ \; \Gamma^\circ \; \Delta^\circ \; \Theta^\circ \; \Lambda^\circ \; \Xi^\circ \; \Pi^\circ \; \Sigma^\circ \; \Upsilon^\circ \; \Phi^\circ \; \Psi^\circ$
$\Omega^\circ \; \mathit{\Gamma}^\circ \; \mathit{\Delta}^\circ \; \mathit{\Theta}^\circ \; \mathit{\Lambda}^\circ \; \mathit{\Xi}^\circ \; \mathit{\Pi}^\circ \; \mathit{\Sigma}^\circ \; \mathit{\Upsilon}^\circ \; \mathit{\Phi}^\circ \; \mathit{\Psi}^\circ \; \mathit{\Omega}^\circ \; \alpha^\circ \; \beta^\circ \; \gamma^\circ \; \delta^\circ \; \epsilon^\circ$
$\varepsilon^\circ \; \zeta^\circ \; \eta^\circ \; \theta^\circ \; \vartheta^\circ \; \iota^\circ \; \kappa^\circ \; \varkappa^\circ \; \lambda^\circ \; \mu^\circ \; \nu^\circ \; \xi^\circ \; o^\circ \; \pi^\circ \; \varpi^\circ \; \rho^\circ \; \varrho^\circ \; \sigma^\circ \; \varsigma^\circ$
$\tau^\circ \; \upsilon^\circ \; \phi^\circ \; \varphi^\circ \; \chi^\circ \; \psi^\circ \; \omega^\circ \; \partial^\circ \; \ell^\circ \; \imath^\circ \; \jmath^\circ \; \wp^\circ \; \mathcal{A}^\circ \; \mathcal{B}^\circ \; \mathcal{C}^\circ \; \mathcal{D}^\circ \; \mathcal{E}^\circ$
$\mathcal{F}^\circ \; \mathcal{G}^\circ \; \mathcal{H}^\circ \; \mathcal{I}^\circ \; \mathcal{J}^\circ \; \mathcal{K}^\circ \; \mathcal{L}^\circ \; \mathcal{M}^\circ \; \mathcal{N}^\circ \; \mathcal{O}^\circ \; \mathcal{P}^\circ \; \mathcal{Q}^\circ \; \mathcal{R}^\circ \; \mathcal{S}^\circ$
$\mathcal{T}^\circ \; \mathcal{U}^\circ \; \mathcal{V}^\circ \; \mathcal{W}^\circ \; \mathcal{X}^\circ \; \mathcal{Y}^\circ \; \mathcal{Z}^\circ \; \mathscr{a}^\circ \; \mathscr{b}^\circ \; \mathscr{c}^\circ \; \mathscr{d}^\circ \; \mathscr{e}^\circ \; \mathscr{f}^\circ \; \mathscr{g}^\circ \; \mathscr{h}^\circ$
$\mathscr{i}^\circ \; \mathscr{j}^\circ \; \mathscr{k}^\circ \; \mathscr{l}^\circ \; \mathscr{m}^\circ \; \mathscr{n}^\circ \; \mathscr{o}^\circ \; \mathscr{p}^\circ \; \mathscr{q}^\circ \; \mathscr{r}^\circ \; \mathscr{s}^\circ \; \mathscr{t}^\circ \; \mathscr{u}^\circ \; \mathscr{v}^\circ \; \mathscr{w}^\circ \; \mathscr{x}^\circ$
$\mathscr{y}^\circ \; \mathscr{z}^\circ \; \alpha^\circ \; \beta^\circ \; \Gamma^\circ \; \gamma^\circ \; \Delta^\circ \; \delta^\circ \; \epsilon^\circ \; \varepsilon^\circ \; \eta^\circ \; \zeta^\circ \; \Theta^\circ \; \theta^\circ \; \vartheta^\circ \; \Sigma^\circ \; \sigma^\circ$
$\varsigma^\circ \; \tau^\circ \; \Upsilon^\circ \; \upsilon^\circ \; \Phi^\circ \; \phi^\circ \; \chi^\circ \; \Psi^\circ \; \psi^\circ \; \Omega^\circ \; \omega^\circ$

These subscripts and superscripts should be correctly placed:

$a^\circ_\circ \; b^\circ_\circ \; c^\circ_\circ \; d^\circ_\circ \; e^\circ_\circ \; f^\circ_\circ \; g^\circ_\circ \; h^\circ_\circ \; i^\circ_\circ \; j^\circ_\circ \; k^\circ_\circ \; l^\circ_\circ \; m^\circ_\circ \; n^\circ_\circ \; o^\circ_\circ \; p^\circ_\circ \; q^\circ_\circ \; r^\circ_\circ \; s^\circ_\circ$
$t^\circ_\circ \; u^\circ_\circ \; v^\circ_\circ \; w^\circ_\circ \; x^\circ_\circ \; y^\circ_\circ \; z^\circ_\circ \; A^\circ_\circ \; B^\circ_\circ \; C^\circ_\circ \; D^\circ_\circ \; E^\circ_\circ \; F^\circ_\circ \; G^\circ_\circ \; H^\circ_\circ \; I^\circ_\circ \; J^\circ_\circ \; K^\circ_\circ$
$L^\circ_\circ \; M^\circ_\circ \; N^\circ_\circ \; O^\circ_\circ \; P^\circ_\circ \; Q^\circ_\circ \; R^\circ_\circ \; S^\circ_\circ \; T^\circ_\circ \; U^\circ_\circ \; V^\circ_\circ \; W^\circ_\circ \; X^\circ_\circ \; Y^\circ_\circ \; Z^\circ_\circ \; 0^\circ_\circ \; 1^\circ_\circ$
$2^\circ_\circ \; 3^\circ_\circ \; 4^\circ_\circ \; 5^\circ_\circ \; 6^\circ_\circ \; 7^\circ_\circ \; 8^\circ_\circ \; 9^\circ_\circ \; \Gamma^\circ_\circ \; \Delta^\circ_\circ \; \Theta^\circ_\circ \; \Lambda^\circ_\circ \; \Xi^\circ_\circ \; \Pi^\circ_\circ \; \Sigma^\circ_\circ \; \Upsilon^\circ_\circ \; \Phi^\circ_\circ \; \Psi^\circ_\circ$
$\Omega^\circ_\circ \; \mathit{\Gamma}^\circ_\circ \; \mathit{\Delta}^\circ_\circ \; \mathit{\Theta}^\circ_\circ \; \mathit{\Lambda}^\circ_\circ \; \mathit{\Xi}^\circ_\circ \; \mathit{\Pi}^\circ_\circ \; \mathit{\Sigma}^\circ_\circ \; \mathit{\Upsilon}^\circ_\circ \; \mathit{\Phi}^\circ_\circ \; \mathit{\Psi}^\circ_\circ \; \mathit{\Omega}^\circ_\circ \; \alpha^\circ_\circ \; \beta^\circ_\circ \; \gamma^\circ_\circ \; \delta^\circ_\circ \; \epsilon^\circ_\circ$
$\varepsilon^\circ_\circ \; \zeta^\circ_\circ \; \eta^\circ_\circ \; \theta^\circ_\circ \; \vartheta^\circ_\circ \; \iota^\circ_\circ \; \kappa^\circ_\circ \; \varkappa^\circ_\circ \; \lambda^\circ_\circ \; \mu^\circ_\circ \; \nu^\circ_\circ \; \xi^\circ_\circ \; o^\circ_\circ \; \pi^\circ_\circ \; \varpi^\circ_\circ \; \rho^\circ_\circ \; \varrho^\circ_\circ \; \sigma^\circ_\circ \; \varsigma^\circ_\circ$
$\tau^\circ_\circ \; \upsilon^\circ_\circ \; \phi^\circ_\circ \; \varphi^\circ_\circ \; \chi^\circ_\circ \; \psi^\circ_\circ \; \omega^\circ_\circ \; \partial^\circ_\circ \; \ell^\circ_\circ \; \imath^\circ_\circ \; \jmath^\circ_\circ \; \wp^\circ_\circ \; \mathcal{A}^\circ_\circ \; \mathcal{B}^\circ_\circ \; \mathcal{C}^\circ_\circ \; \mathcal{D}^\circ_\circ \; \mathcal{E}^\circ_\circ$
$\mathcal{F}^\circ_\circ \; \mathcal{G}^\circ_\circ \; \mathcal{H}^\circ_\circ \; \mathcal{I}^\circ_\circ \; \mathcal{J}^\circ_\circ \; \mathcal{K}^\circ_\circ \; \mathcal{L}^\circ_\circ \; \mathcal{M}^\circ_\circ \; \mathcal{N}^\circ_\circ \; \mathcal{O}^\circ_\circ \; \mathcal{P}^\circ_\circ \; \mathcal{Q}^\circ_\circ \; \mathcal{R}^\circ_\circ \; \mathcal{S}^\circ_\circ$
$\mathcal{T}^\circ_\circ \; \mathcal{U}^\circ_\circ \; \mathcal{V}^\circ_\circ \; \mathcal{W}^\circ_\circ \; \mathcal{X}^\circ_\circ \; \mathcal{Y}^\circ_\circ \; \mathcal{Z}^\circ_\circ \; \mathscr{a}^\circ_\circ \; \mathscr{b}^\circ_\circ \; \mathscr{c}^\circ_\circ \; \mathscr{d}^\circ_\circ \; \mathscr{e}^\circ_\circ \; \mathscr{f}^\circ_\circ \; \mathscr{g}^\circ_\circ \; \mathscr{h}^\circ_\circ$
$\mathscr{i}^\circ_\circ \; \mathscr{j}^\circ_\circ \; \mathscr{k}^\circ_\circ \; \mathscr{l}^\circ_\circ \; \mathscr{m}^\circ_\circ \; \mathscr{n}^\circ_\circ \; \mathscr{o}^\circ_\circ \; \mathscr{p}^\circ_\circ \; \mathscr{q}^\circ_\circ \; \mathscr{r}^\circ_\circ \; \mathscr{s}^\circ_\circ \; \mathscr{t}^\circ_\circ \; \mathscr{u}^\circ_\circ \; \mathscr{v}^\circ_\circ \; \mathscr{w}^\circ_\circ \; \mathscr{x}^\circ_\circ$
$\mathscr{y}^\circ_\circ \; \mathscr{z}^\circ_\circ \; \alpha^\circ_\circ \; \beta^\circ_\circ \; \Gamma^\circ_\circ \; \gamma^\circ_\circ \; \Delta^\circ_\circ \; \delta^\circ_\circ \; \epsilon^\circ_\circ \; \varepsilon^\circ_\circ \; \eta^\circ_\circ \; \zeta^\circ_\circ \; \Theta^\circ_\circ \; \theta^\circ_\circ \; \vartheta^\circ_\circ \; \Sigma^\circ_\circ \; \sigma^\circ_\circ$
$\varsigma^\circ_\circ \; \tau^\circ_\circ \; \Upsilon^\circ_\circ \; \upsilon^\circ_\circ \; \Phi^\circ_\circ \; \phi^\circ_\circ \; \chi^\circ_\circ \; \Psi^\circ_\circ \; \psi^\circ_\circ \; \Omega^\circ_\circ \; \omega^\circ_\circ$

These accents should be centered:

$\vec{a} \; \vec{b} \; \vec{c} \; \vec{d} \; \vec{e} \; \vec{f} \; \vec{g} \; \vec{h} \; \vec{i} \; \vec{j} \; \vec{k} \; \vec{l} \; \vec{m} \; \vec{n} \; \vec{o} \; \vec{p} \; \vec{q} \; \vec{r} \; \vec{s} \; \vec{t} \; \vec{u} \; \vec{v} \; \vec{w} \; \vec{x} \; \vec{y} \; \vec{z} \; \vec{A} \; \vec{B}$
$\vec{C} \; \vec{D} \; \vec{E} \; \vec{F} \; \vec{G} \; \vec{H} \; \vec{I} \; \vec{J} \; \vec{K} \; \vec{L} \; \vec{M} \; \vec{N} \; \vec{O} \; \vec{P} \; \vec{Q} \; \vec{R} \; \vec{S} \; \vec{T} \; \vec{U} \; \vec{V} \; \vec{W} \; \vec{X} \; \vec{Y}$
$\vec{Z} \; \vec{0} \; \vec{1} \; \vec{2} \; \vec{3} \; \vec{4} \; \vec{5} \; \vec{6} \; \vec{7} \; \vec{8} \; \vec{9} \; \vec{\Gamma} \; \vec{\Delta} \; \vec{\Theta} \; \vec{\Lambda} \; \vec{\Xi} \; \vec{\Pi} \; \vec{\Sigma} \; \vec{\Upsilon} \; \vec{\Phi} \; \vec{\Psi} \; \vec{\Omega} \; \vec{\mathit{\Gamma}} \; \vec{\mathit{\Delta}} \; \vec{\mathit{\Theta}} \; \vec{\mathit{\Lambda}}$
$\vec{\mathit{\Xi}} \; \vec{\mathit{\Pi}} \; \vec{\mathit{\Sigma}} \; \vec{\mathit{\Upsilon}} \; \vec{\mathit{\Phi}} \; \vec{\mathit{\Psi}} \; \vec{\mathit{\Omega}} \; \vec{\alpha} \; \vec{\beta} \; \vec{\gamma} \; \vec{\delta} \; \vec{\epsilon} \; \vec{\varepsilon} \; \vec{\zeta} \; \vec{\eta} \; \vec{\theta} \; \vec{\vartheta} \; \vec{\iota} \; \vec{\kappa} \; \vec{\varkappa} \; \vec{\lambda} \; \vec{\mu} \; \vec{\nu} \; \vec{\xi} \; \vec{o} \; \vec{\pi} \; \vec{\varpi}$
$\vec{\rho} \; \vec{\varrho} \; \vec{\sigma} \; \vec{\varsigma} \; \vec{\tau} \; \vec{\upsilon} \; \vec{\phi} \; \vec{\varphi} \; \vec{\chi} \; \vec{\psi} \; \vec{\omega} \; \vec{\partial} \; \vec{\ell} \; \vec{\imath} \; \vec{\jmath} \; \vec{\wp} \; \vec{\mathcal{A}} \; \vec{\mathcal{B}} \; \vec{\mathcal{C}} \; \vec{\mathcal{D}} \; \vec{\mathcal{E}} \; \vec{\mathcal{F}} \; \vec{\mathcal{G}} \; \vec{\mathcal{H}}$
$\vec{\mathcal{I}} \; \vec{\mathcal{J}} \; \vec{\mathcal{K}} \; \vec{\mathcal{L}} \; \vec{\mathcal{M}} \; \vec{\mathcal{N}} \; \vec{\mathcal{O}} \; \vec{\mathcal{P}} \; \vec{\mathcal{Q}} \; \vec{\mathcal{R}} \; \vec{\mathcal{S}} \; \vec{\mathcal{T}} \; \vec{\mathcal{U}} \; \vec{\mathcal{V}} \; \vec{\mathcal{W}} \; \vec{\mathcal{X}} \; \vec{\mathcal{Y}} \; \vec{\mathcal{Z}} \; \vec{\mathscr{a}}$
$\vec{\mathscr{b}} \; \vec{\mathscr{c}} \; \vec{\mathscr{d}} \; \vec{\mathscr{e}} \; \vec{\mathscr{f}} \; \vec{\mathscr{g}} \; \vec{\mathscr{h}} \; \vec{\mathscr{i}} \; \vec{\mathscr{j}} \; \vec{\mathscr{k}} \; \vec{\mathscr{l}} \; \vec{\mathscr{m}} \; \vec{\mathscr{n}} \; \vec{\mathscr{o}} \; \vec{\mathscr{p}} \; \vec{\mathscr{q}} \; \vec{\mathscr{r}} \; \vec{\mathscr{s}} \; \vec{\mathscr{t}} \; \vec{\mathscr{u}} \; \vec{\mathscr{v}} \; \vec{\mathscr{w}}$
$\vec{\mathscr{x}} \; \vec{\mathscr{y}} \; \vec{\mathscr{z}} \; \vec{\alpha} \; \vec{\beta} \; \vec{\Gamma} \; \vec{\gamma} \; \vec{\Delta} \; \vec{\delta} \; \vec{\epsilon} \; \vec{\varepsilon} \; \vec{\eta} \; \vec{\zeta} \; \vec{\Theta} \; \vec{\theta} \; \vec{\vartheta} \; \vec{\Sigma} \; \vec{\sigma} \; \vec{\varsigma} \; \vec{\tau} \; \vec{\Upsilon} \; \vec{\upsilon} \; \vec{\Phi}$
$\vec{\phi} \; \vec{\chi} \; \vec{\Psi} \; \vec{\psi} \; \vec{\Omega} \; \vec{\omega}$

As should these:

$\tilde{a} \; \tilde{b} \; \tilde{c} \; \tilde{d} \; \tilde{e} \; \tilde{f} \; \tilde{g} \; \tilde{h} \; \tilde{i} \; \tilde{j} \; \tilde{k} \; \tilde{l} \; \tilde{m} \; \tilde{n} \; \tilde{o} \; \tilde{p} \; \tilde{q} \; \tilde{r} \; \tilde{s} \; \tilde{t} \; \tilde{u} \; \tilde{v} \; \tilde{w} \; \tilde{x} \; \tilde{y} \; \tilde{z} \; \tilde{A} \; \tilde{B}$
$\tilde{C} \; \tilde{D} \; \tilde{E} \; \tilde{F} \; \tilde{G} \; \tilde{H} \; \tilde{I} \; \tilde{J} \; \tilde{K} \; \tilde{L} \; \tilde{M} \; \tilde{N} \; \tilde{O} \; \tilde{P} \; \tilde{Q} \; \tilde{R} \; \tilde{S} \; \tilde{T} \; \tilde{U} \; \tilde{V} \; \tilde{W} \; \tilde{X} \; \tilde{Y}$
$\tilde{Z} \; \tilde{0} \; \tilde{1} \; \tilde{2} \; \tilde{3} \; \tilde{4} \; \tilde{5} \; \tilde{6} \; \tilde{7} \; \tilde{8} \; \tilde{9} \; \tilde{\Gamma} \; \tilde{\Delta} \; \tilde{\Theta} \; \tilde{\Lambda} \; \tilde{\Xi} \; \tilde{\Pi} \; \tilde{\Sigma} \; \tilde{\Upsilon} \; \tilde{\Phi} \; \tilde{\Psi} \; \tilde{\Omega} \; \tilde{\mathit{\Gamma}} \; \tilde{\mathit{\Delta}} \; \tilde{\mathit{\Theta}} \; \tilde{\mathit{\Lambda}}$
$\tilde{\mathit{\Xi}} \; \tilde{\mathit{\Pi}} \; \tilde{\mathit{\Sigma}} \; \tilde{\mathit{\Upsilon}} \; \tilde{\mathit{\Phi}} \; \tilde{\mathit{\Psi}} \; \tilde{\mathit{\Omega}} \; \tilde{\alpha} \; \tilde{\beta} \; \tilde{\gamma} \; \tilde{\delta} \; \tilde{\epsilon} \; \tilde{\varepsilon} \; \tilde{\zeta} \; \tilde{\eta} \; \tilde{\theta} \; \tilde{\vartheta} \; \tilde{\iota} \; \tilde{\kappa} \; \tilde{\varkappa} \; \tilde{\lambda} \; \tilde{\mu} \; \tilde{\nu} \; \tilde{\xi} \; \tilde{o} \; \tilde{\pi} \; \tilde{\varpi}$
$\tilde{\rho} \; \tilde{\varrho} \; \tilde{\sigma} \; \tilde{\varsigma} \; \tilde{\tau} \; \tilde{\upsilon} \; \tilde{\phi} \; \tilde{\varphi} \; \tilde{\chi} \; \tilde{\psi} \; \tilde{\omega} \; \tilde{\partial} \; \tilde{\ell} \; \tilde{\imath} \; \tilde{\jmath} \; \tilde{\wp} \; \tilde{\mathcal{A}} \; \tilde{\mathcal{B}} \; \tilde{\mathcal{C}} \; \tilde{\mathcal{D}} \; \tilde{\mathcal{E}} \; \tilde{\mathcal{F}} \; \tilde{\mathcal{G}} \; \tilde{\mathcal{H}}$
$\tilde{\mathcal{I}} \; \tilde{\mathcal{J}} \; \tilde{\mathcal{K}} \; \tilde{\mathcal{L}} \; \tilde{\mathcal{M}} \; \tilde{\mathcal{N}} \; \tilde{\mathcal{O}} \; \tilde{\mathcal{P}} \; \tilde{\mathcal{Q}} \; \tilde{\mathcal{R}} \; \tilde{\mathcal{S}} \; \tilde{\mathcal{T}} \; \tilde{\mathcal{U}} \; \tilde{\mathcal{V}} \; \tilde{\mathcal{W}} \; \tilde{\mathcal{X}} \; \tilde{\mathcal{Y}} \; \tilde{\mathcal{Z}} \; \tilde{\mathscr{a}}$
$\tilde{\mathscr{b}} \; \tilde{\mathscr{c}} \; \tilde{\mathscr{d}} \; \tilde{\mathscr{e}} \; \tilde{\mathscr{f}} \; \tilde{\mathscr{g}} \; \tilde{\mathscr{h}} \; \tilde{\mathscr{i}} \; \tilde{\mathscr{j}} \; \tilde{\mathscr{k}} \; \tilde{\mathscr{l}} \; \tilde{\mathscr{m}} \; \tilde{\mathscr{n}} \; \tilde{\mathscr{o}} \; \tilde{\mathscr{p}} \; \tilde{\mathscr{q}} \; \tilde{\mathscr{r}} \; \tilde{\mathscr{s}} \; \tilde{\mathscr{t}} \; \tilde{\mathscr{u}} \; \tilde{\mathscr{v}} \; \tilde{\mathscr{w}}$
$\tilde{\mathscr{x}} \; \tilde{\mathscr{y}} \; \tilde{\mathscr{z}} \; \tilde{\alpha} \; \tilde{\beta} \; \tilde{\Gamma} \; \tilde{\gamma} \; \tilde{\Delta} \; \tilde{\delta} \; \tilde{\epsilon} \; \tilde{\varepsilon} \; \tilde{\eta} \; \tilde{\zeta} \; \tilde{\Theta} \; \tilde{\theta} \; \tilde{\vartheta} \; \tilde{\Sigma} \; \tilde{\sigma} \; \tilde{\varsigma} \; \tilde{\tau} \; \tilde{\Upsilon} \; \tilde{\upsilon} \; \tilde{\Phi}$
$\tilde{\phi} \; \tilde{\chi} \; \tilde{\Psi} \; \tilde{\psi} \; \tilde{\Omega} \; \tilde{\omega}$

Symbols

These arrows should join up properly:

$$a \hookrightarrow b \hookleftarrow c \longrightarrow d \longleftarrow e \Longrightarrow f \Longleftarrow g \longleftrightarrow h \Longleftrightarrow i \mapsto j$$

These symbols should of similar weights:

$$\pm + - \mp = / \backslash (\langle [\{ \}] \rangle) < \leq > \geq$$

Are these the same size?

$$\oint \int \quad \odot \oplus \otimes \sum \prod \bigcup \bigcap \biguplus \bigwedge \bigvee \coprod$$

Are these?

$$\displaystyle \oint \int \quad \bigodot \bigoplus \bigotimes \sum \prod \bigcup \bigcap \biguplus \bigwedge \bigvee \coprod$$

Sizing

The subscripts should be appropriately sized:
(Some sizes left out.)

(`\tiny` omitted)

`\scriptsize`: $a_{c_e}, b_{d_f}, C_{E_G}, 0_{1_2}, a_{0_a}, 0_{a_0}, \sum_{i=0}^{\infty}$

`\footnotesize`: $a_{c_e}, b_{d_f}, C_{E_G}, 0_{1_2}, a_{0_a}, 0_{a_0}, \sum_{i=0}^{\infty}$

`\small`: $a_{c_e}, b_{d_f}, C_{E_G}, 0_{1_2}, a_{0_a}, 0_{a_0}, \sum_{i=0}^{\infty}$

`\normalsize`: $a_{c_e}, b_{d_f}, C_{E_G}, 0_{1_2}, a_{0_a}, 0_{a_0}, \sum_{i=0}^{\infty}$

`\large`: $a_{c_e}, b_{d_f}, C_{E_G}, 0_{1_2}, a_{0_a}, 0_{a_0}, \sum_{i=0}^{\infty}$

`\Large`: $a_{c_e}, b_{d_f}, C_{E_G}, 0_{1_2}, a_{0_a}, 0_{a_0}, \sum_{i=0}^{\infty}$

(`\LARGE` omitted)

`\huge`: $a_{c_e}, b_{d_f}, C_{E_G}, 0_{1_2}, a_{0_a}, 0_{a_0}, \sum_{i=0}^{\infty}$

(`\Huge` omitted)

Delimiters

Each row should be a different size, but within each row the delimiters should be the same size. First with `\big`, etc:

$$\sqrt{| \| \uparrow \downarrow \updownarrow \Uparrow \Downarrow \Updownarrow \lfloor \lceil (\{ [\langle a \rangle] \}) \rceil \rfloor \Updownarrow \Downarrow \Uparrow \updownarrow \downarrow \uparrow \| |}$$

$$\sqrt{\big| \big\| \big\uparrow \big\downarrow \big\updownarrow \big\Uparrow \big\Downarrow \big\Updownarrow \big\lfloor \big\lceil \big(\big\{ \big[\big\langle a \big\rangle \big] \big\} \big) \big\rceil \big\rfloor \big\Updownarrow \big\Downarrow \big\Uparrow \big\updownarrow \big\downarrow \big\uparrow \big\| \big|}$$

$$\sqrt{\Big| \Big\| \Big\uparrow \Big\downarrow \Big\updownarrow \Big\Uparrow \Big\Downarrow \Big\Updownarrow \Big\lfloor \Big\lceil \Big(\Big\{ \Big[\Big\langle a \Big\rangle \Big] \Big\} \Big) \Big\rceil \Big\rfloor \Big\Updownarrow \Big\Downarrow \Big\Uparrow \Big\updownarrow \Big\downarrow \Big\uparrow \Big\| \Big|}$$

$$\sqrt{\bigg| \bigg\| \bigg\uparrow \bigg\downarrow \bigg\updownarrow \bigg\Uparrow \bigg\Downarrow \bigg\Updownarrow \bigg\lfloor \bigg\lceil \bigg(\bigg\{ \bigg[\bigg\langle a \bigg\rangle \bigg] \bigg\} \bigg) \bigg\rceil \bigg\rfloor \bigg\Updownarrow \bigg\Downarrow \bigg\Uparrow \bigg\updownarrow \bigg\downarrow \bigg\uparrow \bigg\| \bigg|}$$

$$\sqrt{\Bigg| \Bigg\| \Bigg\uparrow \Bigg\downarrow \Bigg\updownarrow \Bigg\Uparrow \Bigg\Downarrow \Bigg\Updownarrow \Bigg\lfloor \Bigg\lceil \Bigg(\Bigg\{ \Bigg[\Bigg\langle a \Bigg\rangle \Bigg] \Bigg\} \Bigg) \Bigg\rceil \Bigg\rfloor \Bigg\Updownarrow \Bigg\Downarrow \Bigg\Uparrow \Bigg\updownarrow \Bigg\downarrow \Bigg\uparrow \Bigg\| \Bigg|}$$

Then with `\left` and `\right`:

$$
\begin{gathered}
\sqrt{\left|\left\|\left\uparrow\left\downarrow\left\updownarrow\left\Uparrow\left\Downarrow\left\Updownarrow\left\lfloor\left\lceil\left(\left\{\left[\left\langle a \right\rangle\right]\right\}\right)\right\rceil\right\rfloor\right\Updownarrow\right\Downarrow\right\Uparrow\right\updownarrow\right\downarrow\right\uparrow\right\|\right|} \\
\sqrt{\left|\left\|\left\uparrow\left\downarrow\left\updownarrow\left\Uparrow\left\Downarrow\left\Updownarrow\left\lfloor\left\lceil\left(\left\{\left[\left\langle \begin{matrix} a \\ a \end{matrix} \right\rangle\right]\right\}\right)\right\rceil\right\rfloor\right\Updownarrow\right\Downarrow\right\Uparrow\right\updownarrow\right\downarrow\right\uparrow\right\|\right|} \\
\sqrt{\left|\left\|\left\uparrow\left\downarrow\left\updownarrow\left\Uparrow\left\Downarrow\left\Updownarrow\left\lfloor\left\lceil\left(\left\{\left[\left\langle \begin{matrix} a \\ a \\ a \end{matrix} \right\rangle\right]\right\}\right)\right\rceil\right\rfloor\right\Updownarrow\right\Downarrow\right\Uparrow\right\updownarrow\right\downarrow\right\uparrow\right\|\right|} \\
\sqrt{\left|\left\|\left\uparrow\left\downarrow\left\updownarrow\left\Uparrow\left\Downarrow\left\Updownarrow\left\lfloor\left\lceil\left(\left\{\left[\left\langle \begin{matrix} a \\ a \\ a \\ a \end{matrix} \right\rangle\right]\right\}\right)\right\rceil\right\rfloor\right\Updownarrow\right\Downarrow\right\Uparrow\right\updownarrow\right\downarrow\right\uparrow\right\|\right|}
\end{gathered}
$$

Spacing

This paragraph should appear to be a monotone grey texture. Well, in the bolder math versions the math will stick out… Suppose $f \in \mathcal{S}_n$ and $g(x) = (-1)^{|\alpha|} x^\alpha f(x)$. Then $g \in \mathcal{S}_n$; now (c) implies that $\hat{g} = D_\alpha \hat{f}$ and $P \bullet D_\alpha \hat{f} = P \bullet \hat{g} = (P(D)g)\hat{}$, which is a bounded function, since $P(D)g \in L^1(R^n)$. This proves that $\hat{f} \in \mathcal{S}_n$. If $f_i \to f$ in $\mathcal{S}_n$, then $f_i \to f$ in $L^1(R^n)$. Therefore $\hat{f}_i(t) \to \hat{f}(t)$ for all $t \in R^n$. That $f \to \hat{f}$ is a *continuous* mapping of $\mathcal{S}_n$ into $\mathcal{S}_n$ follows now from the closed graph theorem. *Functional Analysis*, W. Rudin, McGraw–Hill, 1973.

The text in these boxes should spread out as much as the math does:

For example $x + y = \min\{x, y\} + \max\{x, y\}$ is a formula.

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