# Fonts List

```
\usepackage{bbding}
```

| Command | 表示 | Command | 表示 |
|---|---|---|---|
| \ScissorRight | ✂ | \ScissorRightBrokenBottom | ✁ |
| \ScissorRightBrokenTop | ✁ | \ScissorHollowRight | ✃ |
| \ScissorLeft | ✂ | \ScissorLeftBrokenBottom | ✁ |
| \ScissorLeftBrokenTop | ✁ | \ScissorHollowLeft | ✃ |
| \HandRight | ☞ | \HandRightUp | ☝ |
| \HandCuffRight | ☛ | \HandCuffRightUp | ☚ |
| \HandLeft | ☜ | \HandLeftUp | ☝ |
| \HandCuffLeft | ☚ | \HandCuffLeftUp | ☚ |
| \HandPencilLeft | ✍ | | |
| \PencilRight | ✏ | \PencilRightUp | ✎ |
| \PencilRightDown | ✎ | \PencilLeft | ✏ |
| \PencilLeftUp | ✎ | \PencilLeftDown | ✎ |
| \NibRight | ✑ | \NibSolidRight | ✒ |
| \NibLeft | ✑ | \NibSolidLeft | ✒ |
| \XSolid | ✕ | \XSolidBold | ✖ |
| \XSolidBrush | ✗ | \Plus | ✚ |
| \PlusOutline | ✙ | \PlusCenterOpen | ✜ |
| \PlusThinCenterOpen | ✛ | \Cross | ✝ |
| \CrossOpenShadow | ✞ | \CrossOutline | ✟ |
| \CrossBoldOutline | ✟ | \CrossClowerTips | ✠ |
| \CrossMaltese | ✠ | | |
| \DavidStar | ✡ | \DavidStarSolid | ✹ |
| \JackStar | ✢ | \JackStarBold | ✤ |
| \FourStar | ✦ | \FourStarOpen | ✧ |
| \FiveStar | ★ | \FiveStarLines | ✯ |
| \FiveStarOpen | ☆ | \FiveStarOpenCircled | ✪ |
| \FiveStarCenterOpen | ✰ | \FiveStarOpenDotted | ✭ |
| \FiveStarOutline | ✭ | \FiveStarOutlineHeavy | ✮ |
| \FiveStarConvex | ✮ | \FiveStarShadow | ✰ |
| \SixStar | ✶ | \EightStar | ✷ |
| \EightStarBold | ✸ | \EightStarTaper | ✴ |
| \EightStarConvex | ✵ | \TwelweStar | ✹ |
| \SixteenStarLight | ✺ | \Asterisk | ✻ |
| \AsteriskBold | ✱ | \AsteriskCenterOpen | ✼ |
| \AsteriskThin | ✳ | \AsteriskThinCenterOpen | ✽ |
| \AsteriskRoundedEnds | ❃ | \FourAsterisk | ✢ |

| | | | |
|---|---|---|---|
| \EightAsterisk | ✳ | | |
| \FiveFlowerOpen | ❀ | \FiveFlowerPetal | ✿ |
| \SixFlowerOpenCenter | ✲ | \SixFlowerRemovedOpenPetal | ❁ |
| \SixFlowerAlternate | ✵ | \SixFlowerAltPetal | ✵ |
| \SixFlowerPetalDotted | ❀ | \SixFlowerPetalRemoved | ✲ |
| \EightFlowerPetalRemoved | ✲ | \EightFlowerPetal | ❁ |
| \FourClowerOpen | ❀ | \FourClowerSolid | ✿ |
| \Sparkle | ✲ | \SparkleBold | ✲ |
| \SnowflakeChevron | ✲ | \SnowflakeChevronBold | ✲ |
| \Snowflake | ❋ | | |
| \CircleSolid | ● | \CircleShadow | ◯ |
| \HalfCircleRight | ◗ | \HalfCircleLeft | ◖ |
| \Ellipse | ⬭ | \EllipseSolid | ⬭ |
| \EllipseShadow | ⬭ | \Square | □ |
| \SquareSolid | ■ | \SquareShadowBottomRight | ❑ |
| \SquareShadowTopRight | ❒ | \SquareShadowTopLeft | ❑ |
| \SquareCastShadowBottomRight | ❑ | \SquareCastShadowTopRight | ❒ |
| \SquareCastShadowTopLeft | ❑ | \TriangleUp | ▲ |
| \TriangleDown | ▼ | \DiamondSolid | ◆ |
| \OrnamentDiamondSolid | ❖ | \RectangleThin | ❙ |
| \Rectangle | ❙ | \RectangleBold | ▮ |
| \Phone | ☎ | \PhoneHandset | ✆ |
| \Tape | ✇ | \Plane | ✈ |
| \Envelope | ✉ | \Peace | ✌ |
| \Checkmark | ✓ | \CheckmarkBold | ✔ |
| \SunshineOpenCircled | ✪ | \ArrowBoldRightStrobe | ➠ |
| \ArrowBoldUpRight | ➦ | \ArrowBoldDownRight | ➥ |
| \ArrowBoldRightShort | ➧ | \ArrowBoldRightCircled | ➲ |

```
\usepackage{calligra}
```

| 文字 | \textcalligra | 文字 | \textcalligra | 文字 | \textcalligra |
|---|---|---|---|---|---|
| 0 | 𝒪 | a | 𝒶 | A | 𝒜 |
| 1 | 𝓁 | b | 𝒷 | B | ℬ |
| 2 | 𝓇 | c | 𝒸 | C | 𝒞 |
| 3 | 𝓈 | d | 𝒹 | D | 𝒟 |
| 4 | 𝓉 | e | ℯ | E | ℰ |
| 5 | 𝓊 | f | 𝒻 | F | ℱ |
| 6 | 𝓋 | g | ℊ | G | 𝒢 |
| 7 | 𝓌 | h | 𝒽 | H | ℋ |
| 8 | 𝓍 | i | 𝒾 | I | ℐ |
| 9 | 𝓎 | j | 𝒿 | J | 𝒥 |
| ! | 𝓏 | k | 𝓀 | K | 𝒦 |
| " | ″ | l | 𝓁 | L | ℒ |
| ’ | ′ | m | 𝓂 | M | ℳ |
| ( | 𝒻 | n | 𝓃 | N | 𝒩 |
| ) | 𝒽 | o | ℴ | O | 𝒪 |
| = |  | p | 𝓅 | P | 𝒫 |
| ? | 𝒾 | q | 𝓆 | Q | 𝒬 |
| \| |  | r | 𝓇 | R | ℛ |
| ‘ | ′ | s | 𝓈 | S | 𝒮 |
| @ |  | t | 𝓉 | T | 𝒯 |
| [ | 𝒻 | u | 𝓊 | U | 𝒰 |
| ] | 𝒻 | v | 𝓋 | V | 𝒱 |
| * | ⁎ | w | 𝓌 | W | 𝒲 |
| ; | ⁏ | x | 𝓍 | X | 𝒳 |
| : | ⁚ | y | 𝓎 | Y | 𝒴 |
| / | ⁄ | z | 𝓏 | Z | 𝒵 |

```
\usepackage{dsfont}
```

$$\mathbb{N} = \{0, 1, 2, \ldots\}$$

$$\mathbb{ABCDEFGHIJKLMNOPQRSTUVWXYZ}$$

$$\mathbb{N} \subset \mathbb{Z} \subset \mathbb{Q} \subset \mathbb{R} \subset \mathbb{C}$$

$$\{a_i\}_{i \in \mathbb{N}} \text{ where } a_i \in \mathbb{C}$$

$$\forall x \in \mathbb{X} : \exists s \in \mathbb{S} : x \circ t \in \mathbb{T}^{\mathbb{1}}$$

```
\usepackage{fourier-orns}
```

| Command | 表示 | Command | 表示 |
|---|---|---|---|
| \eurologo | € | \starredbullet | ✦ |
| \noway | ⛔ | \danger | ⚠ |
| \textxswup | ⚔ | \textxswdown | ⚔ |
| \decoone | ✠ | \decotwo | ❦ |
| \decothreeleft | ❧ | \decothreeright | ☙ |
| \decofourleft | ❧ | \decofourright | ☙ |
| \floweroneleft | ❀ | \floweroneright | ❀ |
| \lefthand | ☞ | \righthand | ☜ |
| \decosix | ✧ | \bomb | 💣 |
| \grimace | ☹ | \textthing | 🍸 |
| \leafleft | ❧ | \leafright | ❧ |
| \leafNE | ❧ | \aldine | ❦ |
| \aldineleft | ❦ | \aldineright | ❦ |
| \aldinesmall | ❦ | | |

```
\usepackage{ifsym}
```

Weather

| Command | 表示 | Command | 表示 |
|---|---|---|---|
| \Cloud | | \Hail | |
| \Sleet | | \WeakRain | |
| \FilledCloud | | \HalfSun | |
| \Snow | | \WeakRainCloud | |
| \FilledRainCloud | | \Lightning | |
| \SnowCloud | | \FilledSnowCloud | |
| \FilledSunCloud | | \NoSun | |
| \Sun | | \FilledWeakRainCloud | |
| \Rain | | \SunCloud | |
| \Fog | | \RainCloud | |
| \ThinFog | | | |

Clocks

| Command | 表示 | Command | 表示 |
|---|---|---|---|
| \Interval | | \StopWatchStart | |
| \VarClock | | \Wecker | |
| \StopWatchEnd | | \Taschenuhr | |
| \VarTaschenuhr | | | |

Alpine

| Command | 表示 | Command | 表示 |
|---|---|---|---|
| \SummitSign | | \Summit | |
| \SurveySign | | \HalfFilledHut | |
| \StoneMan | | \Mountain | |
| \Joch | | \VarSummit | |
| \Hut | | \IceMountain | |
| \Flag | | \FilledHut | |
| \VarMountain | | \VarFlag | |
| \Village | | \VarIceMountain | |
| \Tent | | | |

other

| Command | 表示 | Command | 表示 |
|---|---|---|---|
| \FilledSectioningDiamond | | \Letter | |
| \Radiation | | \Fire | |
| \PaperLandscape | | \SectioningDiamond | |
| \Irritant | | \PaperPortrait | |

| | | | |
|---|---|---|---|
| \Telephone | ☎ | \StrokeOne | 𝍠 |
| \StrokeTwo | 𝍡 | \StrokeThree | 𝍢 |
| \StrokeFour | 𝍣 | \StrokeFive | 𝍤 |

```
\usepackage{kpfonts}
```

| Command | 表示 | Command | 表示 | Command | 表示 |
|---|---|---|---|---|---|
| \mappedfrom | ↤ | \longmappedfrom | ⟻ | \Mapsto | ⤇ |
| \Longmapsto | ⟹ | \Mappedfrom | ⤆ | \Longmappedfrom | ⟽ |
| \mmapsto | ⨤ | \longmmapsto | ⟼ | \mmappedfrom | ⫣ |
| \longmmappedfrom | ⟻ | \Mmapsto | ⤇ | \Longmmapsto | ⟾ |
| \Mmappedfrom | ⤆ | \Longmmappedfrom | ⟽ | | |

| Command | 表示 | Command | 表示 | Command | 表示 |
|---|---|---|---|---|---|
| \dashleftarrow | ⇠ | \dashrightarrow | ⇢ | \dashleftrightarrow | ⇿ |
| \leftsquigarrow | ⇜ | \Nearrow | ⇗ | \Searrow | ⇘ |
| \Nwarrow | ⇖ | \Swarrow | ⇙ | \varemptyset | ∅ |
| \leadstoext | ⇝ | \leadsto | ⇝ | | |

| Command | 表示 | Command | 表示 | Command | 表示 |
|---|---|---|---|---|---|
| \boxright | ⊡→ | \Diamondright | ◇→ | \circleright | ○→ |
| \boxleft | ←⊡ | \Diamondleft | ←◇ | \circleleft | ←○ |
| \boxdotright | ⊡→ | \Diamonddotright | ◇→ | \circleddotright | ⊙→ |
| \boxdotleft | ←⊡ | \Diamonddotleft | ←◇ | \circleddotleft | ←⊙ |
| \boxRight | ⊡⇒ | \boxLeft | ⇐⊡ | \boxdotRight | ⊡⇒ |
| \boxdotLeft | ⇐⊡ | \DiamondRight | ◇⇒ | \DiamondLeft | ⇐◇ |
| \DiamonddotRight | ◇⇒ | \DiamonddotLeft | ⇐◇ | | |

| Command | 表示 | Command | 表示 | Command | 表示 |
|---|---|---|---|---|---|
| \multimap | ⊸ | \multimapinv | ⟜ | \multimapboth | ⧟ |
| \multimapdot | ⊸• | \multimapdotinv | •⟜ | \multimapdotboth | •⊸• |
| \multimapdotbothA | ○⊸• | \multimapdotbothB | •⊸○ | \multimapbothvert | ⧟ |
| \multimapdotbothvert | ⧟ | \multimapdotbothAvert | ⧟ | \multimapdotbothBvert | ⧟ |

| Command | 表示 | Command | 表示 | Command | 表示 |
|---|---|---|---|---|---|
| \Wr | ≀ | \sqcupplus | ⊔ | \sqcapplus | ⊓ |
| \medcirc | ○ | \medbullet | ● | \doteq | ≐ |
| \VDash | ⊫ | \VvDash | ⊪ | \cong | ≅ |
| \preceqq | ≦ | \succeqq | ≧ | \coloneqq | ≔ |
| \varparallel | ∥ | \varparallelinv | ⫲ | \colonapprox | ≔≈ |
| \colonsim | ≔∼ | \Colonapprox | ::≈ | \Colonsim | ::∼ |
| \eqqcolon | =: | \coloneq | :− | \eqcolon | −: |
| \Coloneqq | ::= | \Eqqcolon | =:: | \invamp | ⅋ |
| \Diamonddot | ◈ | \Diamond | ◇ | \Diamondblack | ◆ |
| \strictif | ⥽ | \strictfi | ⥼ | \strictiff | ⥼⥽ |
| \circledless | ⧀ | \circledgtr | ⧁ | \circledwedge | ⧆ |

| | | | | | |
|---|---|---|---|---|---|
| \circledvee | ⍱ | \circledbar | ⦶ | \circledbslash | ⦸ |

| Command | 表示 | Command | 表示 | Command | 表示 |
|---|---|---|---|---|---|
| \lJoin | ⋉ | \rJoin | ⋊ | \Join | ⋈ |
| \openJoin | ⨯ | \lrtimes | ⋈ | \opentimes | ⨯ |
| \Lbag | ⟅ | \Rbag | ⟆ | \nplus | ⨣ |
| \Top | ⫪ | \Bot | ⫫ | \Perp | ⫫ |
| \boxast | ⧆ | \boxbslash | ⧅ | \boxbar | ⧈ |
| \boxslash | ⧄ | \lambdaslash | 𝜆̸ | \lambdabar | 𝜆̵ |
| \varclubsuit | ♧ | \vardiamondsuit | ♦ | \varheartsuit | ♥ |
| \varspadesuit | ♤ | \llbracket | ⟦ | \rrbracket | ⟧ |

```
\usepackage{mathabx}
```

| Command | 表示 | Command | 表示 | Command | 表示 |
|---|---|---|---|---|---|
| \notsign | ∤ | \varnotsign | ⫽ | | |
| + | + | - | − | \times | × |
| \div | ÷ | \cdot | · | \circ | ○ |
| * | * | \ast | ∗ | \asterisk | ∗ |
| \coasterisk | ⁎ | \pm | ± | \mp | ∓ |
| \ltimes | ⋉ | \rtimes | ⋊ | \diamond | ◇ |
| \bullet | • | \star | ⋆ | \varstar | ✶ |
| \dotplus | ∔ | \dotdiv | ∸ | \dottimes | ⁙ |
| \divdot | ⨪ | \udot | ⊍ | \square | ▫ |
| \Asterisk | ✻ | \bigast | ✻ | \coAsterisk | ✲ |
| \bigcoast | ✲ | \circplus | ⨣ | \pluscirc | ⨦ |
| \convolution | ✳ | \divideontimes | ⋇ | \blackdiamond | ◆ |
| \sqbullet | ▪ | \bigstar | ★ | \bigvarstar | ✭ |
| = | = | \equiv | ≡ | \sim | ∼ |
| \approx | ≈ | \simeq | ≃ | \cong | ≅ |
| \asymp | ≍ | \divides | ∣ | \neq | ≠ |
| \notequiv | ≢ | \nsim | ≁ | \napprox | ≉ |
| \nsimeq | ≄ | \ncong | ≇ | \notasymp | ≭ |
| \notdivides | ∤ | | | | |
| \neg | ¬ | \ll | ≪ | \gg | ≫ |
| \hash | ⋕ | \vdash | ⊢ | \dashv | ⊣ |
| \nvdash | ⊬ | \ndashv | ⊣̸ | \vDash | ⊨ |
| \Dashv | ⫤ | \nvDash | ⊭ | \nDashv | ⫤̸ |
| \Vdash | ⊩ | \dashV | ⫣ | \nVdash | ⊮ |
| \ndashV | ⫣̸ | \degree | ° | \prime | ′ |
| \second | ″ | \third | ‴ | \fourth | ⁗ |
| \flat | ♭ | \natural | ♮ | \sharp | ♯ |
| \infty | ∞ | \propto | ∝ | \dagger | † |
| \ddagger | ‡ | | | | |
| \Sun | ☉ | \Mercury | ☿ | \Venus | ♀ |
| \Earth | ⊕ | \Mars | ♂ | \Jupiter | ♃ |
| \Saturn | ♄ | \Uranus | ♅ | \Neptune | ♆ |
| \Pluto | ♇ | \varEarth | ♁ | \leftmoon | ☾ |
| \rightmoon | ☽ | \fullmoon | ○ | \newmoon | ● |
| \rip | ⸸ | \Aries | ♈ | \Taurus | ♉ |
| \Gemini | ♊ | | | | |

```
\usepackage{mbboard}
```

| 読み方 | 大文字 | 小文字 | 読み方 | 大文字 | 小文字 |
|---|---|---|---|---|---|
| alpha | $\mathbb{A}$ | $\mathbb{a}$ | beta | $\mathbb{B}$ | $\mathbb{b}$ |
| gamma | $\mathbb{\Gamma}$ | $\mathbb{g}$ | delta | $\mathbb{\Delta}$ | $\mathbb{d}$ |
| epsilon | $\mathbb{E}$ | $\mathbb{e}$ | zeta | $\mathbb{Z}$ | $\mathbb{z}$ |
| eta | $\mathbb{H}$ | $\mathbb{h}$ | theta | $\mathbb{\Theta}$ | $\mathbb{\theta}$ |
| iota | $\mathbb{I}$ | $\mathbb{i}$ | kappa | $\mathbb{K}$ | $\mathbb{k}$ |
| lambda | $\mathbb{\Lambda}$ | $\mathbb{\lambda}$ | mu | $\mathbb{M}$ | $\mathbb{m}$ |
| nu | $\mathbb{N}$ | $\mathbb{n}$ | omicron | $\mathbb{O}$ | $\mathbb{o}$ |
| xi | $\mathbb{\Xi}$ | $\mathbb{x}$ | pi | $\mathbb{\Pi}$ | $\mathbb{p}$ |
| rho | $\mathbb{P}$ | $\mathbb{r}$ | sigma | $\mathbb{\Sigma}$ | $\mathbb{s}$ |
| tau | $\mathbb{T}$ | $\mathbb{t}$ | upsilon | $\mathbb{\Upsilon}$ | $\mathbb{u}$ |
| phi | $\mathbb{\Phi}$ | $\mathbb{\phi}$ | chi | $\mathbb{\Xi}$ | $\mathbb{X}$ |
| psi | $\mathbb{\Psi}$ | $\mathbb{\psi}$ | omega | $\mathbb{\Omega}$ | $\mathbb{w}$ |

$\mathbb{T}\mathbb{e}\mathbb{X}2\mathbb{e}$

```
\usepackage{niceframe}
```

¥niceframe
寿限無　寿限無
五劫のすりきれ

¥curlyframe
寿限無　寿限無
五劫のすりきれ

¥artdecoframe
寿限無　寿限無
五劫のすりきれ

¥generalframe
¥font¥border=karta15
寿限無　寿限無
五劫のすりきれ

¥generalframe
¥font¥border=umranda
寿限無　寿限無
五劫のすりきれ

¥generalframe
¥font¥border=umrandb
寿限無　寿限無
五劫のすりきれ

```
\usepackage{pxfonts}
```

Binary Operator Symbols

| Command | 表示 | Command | 表示 |
|---|---|---|---|
| \medcirc | ○ | \medbullet | ● |
| \invamp | ⅋ | \circledwedge | ⍟ |
| \circledvee | ⍣ | \circledbar | ⦶ |
| \circledbslash | ⦸ | \nplus | ⨣ |
| \boxast | ⧆ | \boxbslash | ⧅ |
| \boxbar | ◫ | \boxslash | ⧄ |
| \Wr | ≀ | \sqcupplus | ⊔ |
| \sqcapplus | ⊓ | \rhd | ▷ |
| \lhd | ◁ | \unrhd | ⊵ |
| \unlhd | ⊴ | | |

Binary Relation Symbols

| Command | 表示 | Command | 表示 |
|---|---|---|---|
| \mappedfrom | ↤ | \longmappedfrom | ⟻ |
| \Mapsto | ⤇ | \Longmapsto | ⟹ |
| \Mappedfrom | ⤆ | \Longmappedfrom | ⟸ |
| \mmapsto | ⤅ | \longmmapsto | ⟼ |
| \mmappedfrom | ⤄ | \longmmappedfrom | ⟻ |
| \Mmapsto | ⤇ | \Longmmapsto | ⟹ |
| \Mmappedfrom | ⤆ | \Longmmappedfrom | ⟸ |
| \varparallel | ∥ | \varparallelinv | ⫲ |
| \nvarparallel | ∦ | \nvarparallelinv | ⫳ |
| \colonapprox | :≈ | \colonsim | :∼ |
| \Colonapprox | ::≈ | \Colonsim | ::∼ |
| \doteq | ≐ | \multimapinv | ⊸ |
| \multimapboth | ⧟ | \multimapdot | ⊷ |
| \multimapdotinv | ⟜ | \multimapdotboth | ⧷ |
| \multimapdotbothA | ⧟ | \multimapdotbothB | ⧷ |
| \VDash | ⊫ | \VvDash | ⫦ |
| \cong | ≅ | \preceqq | ⪳ |
| \succeqq | ⪴ | \nprecsim | ⋨ |
| \nsuccsim | ⋩ | \nlesssim | ⋦ |
| \ngtrsim | ⋧ | \nlessapprox | ⪉ |
| \ngtrapprox | ⪊ | \npreccurlyeq | ⋠ |
| \nsucccurlyeq | ⋡ | \ngtrless | ≹ |
| \nlessgtr | ≸ | \nbumpeq | ≠ |
| \nBumpeq | ≠ | \nbacksim | ≁ |
| \nbacksimeq | ≠ | \neq | ≠ |
| \nasymp | ≭ | \nequiv | ≢ |
| \nsim | ≁ | \napprox | ≉ |
| \nsubset | ⊄ | \nsupset | ⊅ |

| \nll | $\nll$ | \ngg | $\ngg$ |
|---|---|---|---|

| Command | 表示 | Command | 表示 |
|---|---|---|---|
| \nthickapprox | $\nthickapprox$ | \napproxeq | $\napproxeq$ |
| \nprecapprox | $\nprecapprox$ | \nsuccapprox | $\nsuccapprox$ |
| \npreceqq | $\npreceqq$ | \nsucceqq | $\nsucceqq$ |
| \nsimeq | $\nsimeq$ | \notin | $\notin$ |
| \notni,\notowns | $\notni$ | \nSubset | $\nSubset$ |
| \nSupset | $\nSupset$ | \nsqsubseteq | $\nsqsubseteq$ |
| \nsqsupseteq | $\nsqsupseteq$ | \coloneqq | $\coloneqq$ |
| \eqqcolon | $\eqqcolon$ | \coloneq | $\coloneq$ |
| \eqcolon | $\eqcolon$ | \Coloneqq | $\Coloneqq$ |
| \Eqqcolon | $\Eqqcolon$ | \Coloneq | $\Coloneq$ |
| \Eqcolon | $\Eqcolon$ | \strictif | $\strictif$ |
| \strictfi | $\strictfi$ | \strictiff | $\strictiff$ |
| \circledless | $\circledless$ | \circledgtr | $\circledgtr$ |
| \lJoin | $\lJoin$ | \rJoin | $\rJoin$ |
| \Join,\lrJoin | $\Join$ | \openJoin | $\openJoin$ |
| \lrtimes | $\lrtimes$ | \opentimes | $\opentimes$ |
| \nsqsubset | $\nsqsubset$ | \nsqsupset | $\nsqsupset$ |
| \dashleftarrow | $\dashleftarrow$ | \ntwoheadrightarrow | $\ntwoheadrightarrow$ |
| \ntwoheadleftarrow | $\ntwoheadleftarrow$ | \Nearrow | $\Nearrow$ |
| \Searrow | $\Searrow$ | \Nwarrow | $\Nwarrow$ |
| \Swarrow | $\Swarrow$ | \Perp | $\Perp$ |
| \leadstoext | $\leadstoext$ | \leadsto | $\leadsto$ |
| \boxright | $\boxright$ | \boxleft | $\boxleft$ |
| \boxdotright | $\boxdotright$ | \boxdotleft | $\boxdotleft$ |
| \Diamondright | $\Diamondright$ | \Diamondleft | $\Diamondleft$ |
| \Diamonddotright | $\Diamonddotright$ | \Diamonddotleft | $\Diamonddotleft$ |
| \boxRight | $\boxRight$ | \boxLeft | $\boxLeft$ |
| \boxdotRight | $\boxdotRight$ | \boxdotLeft | $\boxdotLeft$ |
| \DiamondRight | $\DiamondRight$ | \DiamondLeft | $\DiamondLeft$ |
| \DiamonddotRight | $\DiamonddotRight$ | \DiamonddotLeft | $\DiamonddotLeft$ |
| \circleright | $\circleright$ | \circleleft | $\circleleft$ |
| \circleddotright | $\circleddotright$ | \circleddotleft | $\circleddotleft$ |
| \multimapbothvert | $\multimapbothvert$ | \multimapdotbothvert | $\multimapdotbothvert$ |
| \multimapdotbothAvert | $\multimapdotbothAvert$ | \multimapdotbothBvert | $\multimapdotbothBvert$ |

Ordinary Symbols

| Command | 表示 | Command | 表示 |
|---|---|---|---|
| \alphaup | $\alphaup$ | \betaup | $\betaup$ |
| \gammaup | $\gammaup$ | \deltaup | $\deltaup$ |
| \epsilonup | $\epsilonup$ | \varepsilonup | $\varepsilonup$ |
| \zetaup | $\zetaup$ | \etaup | $\etaup$ |
| \thetaup | $\thetaup$ | \varthetaup | $\varthetaup$ |
| \iotaup | $\iotaup$ | \kappaup | $\kappaup$ |

| | | | |
|---|---|---|---|
| \lambdaup | $\lambda$ | \muup | $\mu$ |
| \nuup | $\nu$ | \xiup | $\xi$ |
| \piup | $\pi$ | \varpiup | $\varpi$ |
| \rhoup | $\rho$ | \varrhoup | $\varrho$ |
| \sigmaup | $\sigma$ | \varsigmaup | $\varsigma$ |
| \tauup | $\tau$ | \upsilonup | $\upsilon$ |
| \phiup | $\phi$ | \varphiup | $\varphi$ |
| \chiup | $\chi$ | \psiup | $\psi$ |
| \omegaup | $\omega$ | \Diamond | $\Diamond$ |
| \Diamonddot | $\diamondsuit$ | \Diamondblack | $\blacklozenge$ |
| \lambdaslash | $\lambda\!\!\!/$ | \lambdabar | $\lambda\!\!\!-$ |
| \varclubsuit | $\varclubsuit$ | \vardiamondsuit | $\vardiamondsuit$ |
| \varheartsuit | $\varheartsuit$ | \varspadesuit | $\varspadesuit$ |
| \Top | $\top$ | \Bot | $\bot$ |

Large Operator Symbols

| Command | 表示 | Command | 表示 |
|---|---|---|---|
| \bignplus | $\bigoplus$ | \bigsqcupplus | $\bigsqcup$ |
| \bigsqcapplus | $\bigsqcap$ | \bigsqcap | $\bigsqcap$ |
| \bigsqcap | $\bigsqcap$ | \varprod | $\bigtimes$ |
| \oiint | $\oint\!\!\!\oint$ | \oiiint | $\oint\!\!\!\oint\!\!\!\oint$ |
| \ointctrclockwise | $\oint$ | \ointclockwise | $\oint$ |
| \varointctrclockwise | $\oint$ | \varointclockwise | $\oint$ |
| \sqint | $\oint$ | \sqiintop | $\oint\!\!\!\oint$ |
| \sqiiintop | $\oint\!\!\!\oint\!\!\!\oint$ | \fint | $\fint$ |
| \iint | $\int\!\!\int$ | \iiint | $\int\!\!\int\!\!\int$ |
| \iiiint | $\int\!\!\int\!\!\int\!\!\int$ | \idotsint | $\int\cdots\int$ |
| \oiintctrclockwise | $\oint\!\!\!\oint$ | \oiintclockwise | $\oint\!\!\!\oint$ |
| \varoiintctrclockwise | $\oint\!\!\!\oint$ | \varoiintclockwise | $\oint\!\!\!\oint$ |
| \oiiintctrclockwise | $\oint\!\!\!\oint\!\!\!\oint$ | \oiiintclockwise | $\oint\!\!\!\oint\!\!\!\oint$ |
| \varoiiintctrclockwise | $\oint\!\!\!\oint\!\!\!\oint$ | \varoiiintclockwise | $\oint\!\!\!\oint\!\!\!\oint$ |

Delimiters

| Command | 表示 | Command | 表示 |
|---|---|---|---|
| \llbracket | $\llbracket$ | \rrbracket | $\rrbracket$ |
| \lbag | $\lbag$ | \rbag | $\rbag$ |

```
\usepackage{stmary}
```

stmaryrd Binary Operators

| Command | 表示 | Command | 表示 | Command | 表示 |
|---|---|---|---|---|---|
| \Ydown | ⟒ | \Yleft | ⟙ | \Yright | ⟘ |
| \Yup | ⟑ | \baro | ⦶ | \bbslash | ⧵ |
| \binampersand | ⅋ | \bindnasrepma | ⟜ | \boxast | ⧈ |
| \boxbar | ◫ | \boxbox | ⧈ | \boxbslash | ⧅ |
| \boxcircle | ⧇ | \boxdot | ⧈ | \boxempty | □ |
| \boxslash | ⧄ | \curlyveedownarrow | ⋎ | \curlyveeuparrow | ⋏ |
| \curlywedgedownarrow | ⋏ | \curlywedgeuparrow | ⋀ | \fatbslash | ⧹ |
| \fatsemi | ⨟ | \fatslash | ⧸ | \interleave | ⫴ |
| \leftslice | ⪦ | \merge | ⨻ | \minuso | ⦵ |
| \moo | ⫫ | \nplus | ⨦ | \obar | ⦶ |
| \oblong | □ | \obslash | ⦸ | \ogreaterthan | ⧁ |
| \olessthan | ⧀ | \ovee | ⦷ | \owedge | ⦹ |
| \rightslice | ⪧ | \sslash | ⫽ | \talloblong | ▯ |
| \varbigcirc | ◯ | \varcurlyvee | ⋎ | \varcurlywedge | ⋏ |
| \varoast | ⊛ | \varobar | ⦶ | \varobslash | ⦸ |
| \varocircle | ⊚ | \varodot | ⊙ | \varogreaterthan | ⧁ |
| \varolessthan | ⧀ | \varominus | ⊖ | \varoplus | ⊕ |
| \varoslash | ⊘ | \varotimes | ⊗ | \varovee | ⦷ |
| \varowedge | ⦹ | \vartimes | ⨯ | | |

stmaryrd Large Binary Operators

| Command | 表示 | Command | 表示 | Command | 表示 |
|---|---|---|---|---|---|
| \bigbox | ☐ | \bigcurlyvee | ⋎ | \bigcurlywedge | ⋏ |
| \biginterleave | ⫼ | \bignplus | ⨄ | \bigparallel | ⫲ |
| \bigsqcap | ⨅ | \bigtriangledown | ▽ | \bigtriangleup | △ |

stmaryrd Binary Relations

| Command | 表示 | Command | 表示 | Command | 表示 |
|---|---|---|---|---|---|
| \inplus | ⋵ | \niplus | ⋽ | \subsetplus | ⊊ |
| \subsetpluseq | ⫏ | \supsetplus | ⊋ | \supsetpluseq | ⫐ |
| \trianglelefteqslant | ◭ | \trianglerighteqslant | ◮ | | |

stmaryrd Negated Binary Relations

| Command | 表示 | Command | 表示 | |
|---|---|---|---|---|
| \ntrianglelefteqslant | ⬬ | \ntrianglerighteqslant | ⬭ | |

stmaryrd Delimiters

| Command | 表示 | Command | 表示 | Command | 表示 |
|---|---|---|---|---|---|
| \Lbag | ⟅ | \Rbag | ⟆ | \lbag | ⟅ |
| \rbag | ⟆ | \llceil | ⌈ | \rrceil | ⌉ |
| \llfloor | ⌊ | \rrfloor | ⌋ | \llbracket | ⟦ |
| \rrbracket | ⟧ | | | | |

stmaryrd Arrows

| Command | 表示 | Command | 表示 | Command | 表示 |
|---|---|---|---|---|---|
| \Longmapsfrom | ⟸↤ | \Longmapsto | ↦⟹ | \Mapsfrom | ⇤↤ |
| \Mapsto | ↦⇨ | \nnearrow | ↗ | \nnwarrow | ↖ |
| \ssearrow | ↘ | \sswarrow | ↙ | \shortdownarrow | ↓ |
| \shortuparrow | ↑ | \shortleftarrow | ← | \shortrightarrow | → |
| \longmapsfrom | ⟻ | \mapsfrom | ↤ | \leftarrowtriangle | ⇽ |
| \rightarrowtriangle | ⇾ | \lightning | ↯ | \rrparenthesis | ⦆ |
| \leftrightarroweq | ⇔ | \leftrightarrowtriangle | ⇿ | | |

stmaryrd Extension Characters

| Command | 表示 | Command | 表示 | Command | 表示 |
|---|---|---|---|---|---|
| \Arrownot | ⫽ | \Mapsfromchar | ⫞ | \Mapstochar | ⫟ |
| \arrownot | ⫻ | \mapsfromchar | ⫞ | | |

```
\usepackage{txfonts}
```

Binary Operator Symbols

| Command | 表示 | Command | 表示 |
|---|---|---|---|
| \medcirc | ○ | \medbullet | ● |
| \invamp | ⅋ | \circledwedge | ⍟ |
| \circledvee | ⍣ | \circledbar | ⦶ |
| \circledbslash | ⦸ | \nplus | ⨣ |
| \boxast | ⧆ | \boxbslash | ⧅ |
| \boxbar | ◫ | \boxslash | ⧄ |
| \Wr | ≀ | \sqcupplus | ⊔ |
| \sqcapplus | ⊓ | \rhd | ▷ |
| \lhd | ◁ | \unrhd | ⊵ |
| \unlhd | ⊴ | | |

Binary Relation Symbols

| Command | 表示 | Command | 表示 |
|---|---|---|---|
| \mappedfrom | ↤ | \longmappedfrom | ⟻ |
| \Mapsto | ⤇ | \Longmapsto | ⟹ |
| \Mappedfrom | ⤆ | \Longmappedfrom | ⟸ |
| \mmapsto | ⤅ | \longmmapsto | ⟼ |
| \mmappedfrom | ↤ | \longmmappedfrom | ⟻ |
| \Mmapsto | ⤇ | \Longmmapsto | ⟹ |
| \Mmappedfrom | ⤆ | \Longmmappedfrom | ⟸ |
| \varparallel | ∥ | \varparallelinv | ⫽ |
| \nvarparallel | ∦ | \nvarparallelinv | ⫽ |
| \colonapprox | :≈ | \colonsim | :∼ |
| \Colonapprox | ::≈ | \Colonsim | ::∼ |
| \doteq | ≐ | \multimapinv | ⟜ |
| \multimapboth | ⧟ | \multimapdot | ⊸ |
| \multimapdotinv | ⟝ | \multimapdotboth | ⧟ |
| \multimapdotbothA | ⧟ | \multimapdotbothB | ⧟ |
| \VDash | ⊫ | \VvDash | ⫦ |
| \cong | ≅ | \preceqq | ≦ |
| \succeqq | ≧ | \nprecsim | ⋨ |
| \nsuccsim | ⋩ | \nlesssim | ⋦ |
| \ngtrsim | ⋧ | \nlessapprox | ⋦ |
| \ngtrapprox | ⋧ | \npreccurlyeq | ⋠ |
| \nsucccurlyeq | ⋡ | \ngtrless | ⋧ |
| \nlessgtr | ≸ | \nbumpeq | ≠ |
| \nBumpeq | ≠ | \nbacksim | ≁ |
| \nbacksimeq | ≠ | \neq | ≠ |
| \nasymp | ≭ | \nequiv | ≢ |
| \nsim | ≁ | \napprox | ≉ |
| \nsubset | ⊄ | \nsupset | ⊅ |

| \nll | ≪̸ | \ngg | ≫̸ |
|---|---|---|---|

| Command | 表示 | Command | 表示 |
|---|---|---|---|
| \nthickapprox | ≉ | \napproxeq | ≋̸ |
| \nprecapprox | ⪷̸ | \nsuccapprox | ⪸̸ |
| \npreceqq | ⪵̸ | \nsucceqq | ⪶̸ |
| \nsimeq | ≄ | \notin | ∉ |
| \notni,\notowns | ∌ | \nSubset | ⋐̸ |
| \nSupset | ⋑̸ | \nsqsubseteq | ⋢ |
| \nsqsupseteq | ⋣ | \coloneqq | ≔ |
| \eqqcolon | ≕ | \coloneq | :− |
| \eqcolon | −: | \Coloneqq | ::= |
| \Eqqcolon | =:: | \Coloneq | ::− |
| \Eqcolon | −:: | \strictif | ⥽ |
| \strictfi | ⥼ | \strictiff | ⥾ |
| \circledless | ⦵ | \circledgtr | ⦶ |
| \lJoin | ⋉ | \rJoin | ⋊ |
| \Join,\lrJoin | ⋈ | \openJoin | ⋋ |
| \lrtimes | ⋉ | \opentimes | ⋋ |
| \nsqsubset | ⋤ | \nsqsupset | ⋥ |
| \dashleftarrow | ⇠ | \ntwoheadrightarrow | ↠̸ |
| \ntwoheadleftarrow | ↞̸ | \Nearrow | ⇗ |
| \Searrow | ⇘ | \Nwarrow | ⇖ |
| \Swarrow | ⇙ | \Perp | ⫫ |
| \leadstoext | ∼ | \leadsto | ⇝ |
| \boxright | □→ | \boxleft | ←□ |
| \boxdotright | ⊡→ | \boxdotleft | ←⊡ |
| \Diamondright | ◇→ | \Diamondleft | ←◇ |
| \Diamonddotright | ◈→ | \Diamonddotleft | ←◈ |
| \boxRight | □⇒ | \boxLeft | ⇐□ |
| \boxdotRight | ⊡⇒ | \boxdotLeft | ⇐⊡ |
| \DiamondRight | ◇⇒ | \DiamondLeft | ⇐◇ |
| \DiamonddotRight | ◈⇒ | \DiamonddotLeft | ⇐◈ |
| \circleright | ○→ | \circleleft | ←○ |
| \circleddotright | ⊙→ | \circleddotleft | ←⊙ |
| \multimapbothvert | ⧟ | \multimapdotbothvert | ⧟ |
| \multimapdotbothAvert | ⧟ | \multimapdotbothBvert | ⧟ |

Ordinary Symbols

| Command | 表示 | Command | 表示 |
|---|---|---|---|
| \alphaup | α | \betaup | β |
| \gammaup | γ | \deltaup | δ |
| \epsilonup | ϵ | \varepsilonup | ε |
| \zetaup | ζ | \etaup | η |
| \thetaup | θ | \varthetaup | ϑ |
| \iotaup | ι | \kappaup | κ |

| | | | |
|---|---|---|---|
| \lambdaup | λ | \muup | μ |
| \nuup | ν | \xiup | ξ |
| \piup | π | \varpiup | ϖ |
| \rhoup | ρ | \varrhoup | ϱ |
| \sigmaup | σ | \varsigmaup | ς |
| \tauup | τ | \upsilonup | υ |
| \phiup | ϕ | \varphiup | φ |
| \chiup | χ | \psiup | ψ |
| \omegaup | ω | \Diamond | ◇ |
| \Diamonddot | ⟐ | \Diamondblack | ◆ |
| \lambdaslash | ƛ | \lambdabar | ƛ |
| \varclubsuit | ♧ | \vardiamondsuit | ♦ |
| \varheartsuit | ♥ | \varspadesuit | ♤ |
| \Top | ⫪ | \Bot | ⫫ |

Large Operator Symbols

| Command | 表示 | Command | 表示 |
|---|---|---|---|
| \bignplus | ⨁ | \bigsqcupplus | ⨆ |
| \bigsqcapplus | ⨅ | \bigsqcap | ⨅ |
| \bigsqcap | ⨅ | \varprod | ⨯ |
| \oiint | ∯ | \oiiint | ∰ |
| \ointctrclockwise | ∲ | \ointclockwise | ∲ |
| \varointctrclockwise | ∲ | \varointclockwise | ∲ |
| \sqint | ⨖ | \sqiintop | ⨌ |
| \sqiiintop | ⨌ | \fint | ⨏ |
| \iint | ∬ | \iiint | ∭ |
| \iiiint | ⨌ | \idotsint | ∫⋯∫ |
| \oiintctrclockwise | ∯ | \oiintclockwise | ∯ |
| \varoiintctrclockwise | ∯ | \varoiintclockwise | ∯ |
| \oiiintctrclockwise | ∰ | \oiiintclockwise | ∰ |
| \varoiiintctrclockwise | ∰ | \varoiiintclockwise | ∰ |

Delimiters

| Command | 表示 | Command | 表示 |
|---|---|---|---|
| \llbracket | ⟦ | \rrbracket | ⟧ |
| \lbag | ⟅ | \rbag | ⟆ |

```
\usepackage{yhmath}
```

$$\begin{pmatrix} a & b \\ c & d \end{pmatrix} \begin{pmatrix} a & b & c \\ d & e & f \\ g & h & i \end{pmatrix} \begin{pmatrix} a & b & c & d \\ e & f & g & h \\ i & j & k & l \\ m & n & o & p \end{pmatrix}$$

$$\left\langle \begin{matrix} a & b \\ c & d \end{matrix} \right\rangle \left\langle \begin{matrix} a & b & c \\ d & e & f \\ g & h & i \end{matrix} \right\rangle \left\langle \begin{matrix} a & b & c & d \\ e & f & g & h \\ i & j & k & l \\ m & n & o & p \end{matrix} \right\rangle$$

$$\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{x}}}}}}}}}}$$

$$\widehat{A}, \widehat{AB}, \widehat{ABC}, \widehat{ABCD}, \widehat{ABCDE}, \widehat{ABCDEF}, \widehat{ABCDEFG}$$

$$\widetilde{A}, \widetilde{AB}, \widetilde{ABC}, \widetilde{ABCD}, \widetilde{ABCDE}, \widetilde{ABCDEF}, \widetilde{ABCDEFG}$$

$$\widehat{A}, \widehat{AB}, \widehat{ABC}, \widehat{ABCD}, \widehat{ABCDE}, \widehat{ABCDEF}, \widehat{ABCDEFG}$$

$$\widehat{A}, \widehat{AB}, \widehat{ABC}, \widehat{ABCD}, \widehat{ABCDE}, \widehat{ABCDEF}, \widehat{ABCDEFG}$$

$$\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{x}}}}}}}}}}$$

$$\begin{pmatrix} a & b \\ c & d \end{pmatrix} \begin{pmatrix} a & b & c \\ d & e & f \\ g & h & i \end{pmatrix} \begin{pmatrix} a & b & c & d \\ e & f & g & h \\ i & j & k & l \\ m & n & o & p \end{pmatrix}$$

$$\iddots$$