# Technical details on texvc identifiere extraction

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## 1 Introduction

This document describes which mathematical symbols are identified as identifiers. In general every single Latin letter [a-zA-Z] is regarded as identifier. In addition, we accept multi-letter-subscripts that match [0-9a-zA-Z]+, such as $a_0$ but also $\varepsilon_{ijk}$. Moreover, the Literals described in section 2, and the Identifier variants (section 3) are supported.

## 2 Literals

The following literals are supported:

- `\aleph` is rendered as $\aleph$
- `\alpha` is rendered as $\alpha$
- `\amalg` is rendered as $\amalg$
- `\backepsilon` is rendered as $\backepsilon$
- `\Bbbk` is rendered as $\Bbbk$
- `\beta` is rendered as $\beta$
- `\beth` is rendered as $\beth$
- `\chi` is rendered as $\chi$
- `\complement` is rendered as $\complement$
- `\daleth` is rendered as $\daleth$
- `\delta` is rendered as $\delta$
- `\Delta` is rendered as $\Delta$
- `\digamma` is rendered as $\digamma$
- `\ell` is rendered as $\ell$
- `\emptyset` is rendered as $\emptyset$
- `\epsilon` is rendered as $\epsilon$
- `\eta` is rendered as $\eta$
- `\eth` is rendered as $\eth$

\Finv is rendered as ∃
\flat is rendered as ♭
\Game is rendered as ⅁
\gamma is rendered as $\gamma$
\Gamma is rendered as $\Gamma$
\gimel is rendered as ℷ
\hbar is rendered as $\hbar$
\hslash is rendered as $\hbar$
\Im is rendered as $\Im$
\imath is rendered as $\imath$
\infty is rendered as $\infty$
\intercal is rendered as ⊺
\iota is rendered as $\iota$
\jmath is rendered as $\jmath$
\kappa is rendered as $\kappa$
\lambda is rendered as $\lambda$
\Lambda is rendered as $\Lambda$
\mho is rendered as ℧
\mu is rendered as $\mu$
\natural is rendered as ♮
\nu is rendered as $\nu$
\omega is rendered as $\omega$
\Omega is rendered as $\Omega$
\P is rendered as ¶
\phi is rendered as $\phi$
\Phi is rendered as $\Phi$
\pi is rendered as $\pi$
\Pi is rendered as $\Pi$
\pitchfork is rendered as ⋔
\psi is rendered as $\psi$
\Psi is rendered as $\Psi$
\Re is rendered as $\Re$
\rho is rendered as $\rho$
\S is rendered as §
\sigma is rendered as $\sigma$
\Sigma is rendered as $\Sigma$
\tau is rendered as $\tau$
\theta is rendered as $\theta$
\Theta is rendered as $\Theta$
\top is rendered as $\top$
\varepsilon is rendered as $\varepsilon$

\varkappa is rendered as $\varkappa$
\varnothing is rendered as $\varnothing$
\varphi is rendered as $\varphi$
\varpi is rendered as $\varpi$
\varrho is rendered as $\varrho$
\varsigma is rendered as $\varsigma$
\vartheta is rendered as $\vartheta$
\wp is rendered as $\wp$
\xi is rendered as $\xi$
\Xi is rendered as $\Xi$
\zeta is rendered as $\zeta$

# 3 Identifier variants

The following variants are supported[1]:

\acute applied on $x, X$ is rendered as $\acute{x}, \acute{X}$
\bar applied on $x, X$ is rendered as $\bar{x}, \bar{X}$
\bcancel applied on $x, X$ is rendered as $\bcancel{x}, \bcancel{X}$
\bmod applied on $x, X$ is rendered as $\bmod x, \bmod X$
\boldsymbol applied on $x, X$ is rendered as $\boldsymbol{x}, \boldsymbol{X}$
\breve applied on $x, X$ is rendered as $\breve{x}, \breve{X}$
\cancel applied on $x, X$ is rendered as $\cancel{x}, \cancel{X}$
\check applied on $x, X$ is rendered as $\check{x}, \check{X}$
\ddot applied on $x, X$ is rendered as $\ddot{x}, \ddot{X}$
\dot applied on $x, X$ is rendered as $\dot{x}, \dot{X}$
\emph applied on $x, X$ is rendered as $x, X$
\grave applied on $x, X$ is rendered as $\grave{x}, \grave{X}$
\hat applied on $x, X$ is rendered as $\hat{x}, \hat{X}$
\mathbb applied on $x, X$ is rendered as $\mathbb{x}, \mathbb{X}$
\mathbf applied on $x, X$ is rendered as $\mathbf{x}, \mathbf{X}$
\mathbin applied on $x, X$ is rendered as $x, X$
\mathcal applied on $x, X$ is rendered as $\S, \mathcal{X}$
\mathclose applied on $x, X$ is rendered as $x, X$
\mathfrak applied on $x, X$ is rendered as $\mathfrak{x}, \mathfrak{X}$
\mathit applied on $x, X$ is rendered as $x, X$
\mathop applied on $x, X$ is rendered as $x, X$
\mathopen applied on $x, X$ is rendered as $x, X$
\mathord applied on $x, X$ is rendered as $x, X$

[1]Note that \mathcal is not available for lowercase Latin letters.

\mathpunct applied on $x, X$ is rendered as $x\,, X$
\mathrel applied on $x, X$ is rendered as $x, X$
\mathrm applied on $x, X$ is rendered as $\mathrm{x}, \mathrm{X}$
\mathsf applied on $x, X$ is rendered as $\mathsf{x}, \mathsf{X}$
\mathtt applied on $x, X$ is rendered as $\mathtt{x}, \mathtt{X}$
\operatorname applied on $x, X$ is rendered as $\mathrm{x}, \mathrm{X}$
\overleftarrow applied on $x, X$ is rendered as $\overleftarrow{x}, \overleftarrow{X}$
\overleftrightarrow applied on $x, X$ is rendered as $\overleftrightarrow{x}, \overleftrightarrow{X}$
\overline applied on $x, X$ is rendered as $\overline{x}, \overline{X}$
\overrightarrow applied on $x, X$ is rendered as $\overrightarrow{x}, \overrightarrow{X}$
\textbf applied on $x, X$ is rendered as $\mathbf{x}, \mathbf{X}$
\textit applied on $x, X$ is rendered as $x, X$
\textrm applied on $x, X$ is rendered as $\mathrm{x}, \mathrm{X}$
\textsf applied on $x, X$ is rendered as $\mathsf{x}, \mathsf{X}$
\texttt applied on $x, X$ is rendered as $\mathtt{x}, \mathtt{X}$
\tilde applied on $x, X$ is rendered as $\tilde{x}, \tilde{X}$
\underline applied on $x, X$ is rendered as $\underline{x}, \underline{X}$
\vec applied on $x, X$ is rendered as $\vec{x}, \vec{X}$
\widehat applied on $x, X$ is rendered as $\widehat{x}, \widehat{X}$
\widetilde applied on $x, X$ is rendered as $\widetilde{x}, \widetilde{X}$
\xcancel applied on $x, X$ is rendered as $\cancel{x}, \cancel{X}$
\xleftarrow applied on $x, X$ is rendered as $\xleftarrow{x}, \xleftarrow{X}$
\xrightarrow applied on $x, X$ is rendered as $\xrightarrow{x}, \xrightarrow{X}$
\Bbb applied on $x, X$ is rendered as $\Bbbx, \BbbX$
\bold applied on $x, X$ is rendered as $\mathbf{x}, \mathbf{X}$