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Base62x: An alternative approach to Base64 for non-alphanumeric characters

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In computer systems, printable characters include not only 62 alphanumeric characters (0-9, a-z and A-Z) but also non-alphanumeric characters (e.g. *, , ^, %). Base64 is a commonly used encoding scheme that represents binary data in an ASCII string format. However, for Base64, non-alphanumeric characters (e.g. *, , ^, %) are problematic for filenames and URLs. For example, "+" is error-prone in URL and "/" is not allowed in filenames. To address this issue, we propose a new method, Base62x, as an alternative approach to Base64. The proposed method is more effective in application development and fully compatible with symbol-sensitive applications, such as, file systems, IP addresses and safe transmission of non-ASCII over the Internet.

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