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Python as a domain specific language

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By using metaclasses and other powerful features of Python it is possible to use Python as a domain specific language. We will show how we replaced a domain specific language in CAPS with Python, and discuss our reasons for doing so.

Using metaclasses and other meta-features, it is possible to greatly alter the behaviour of Python. We have exploited these to give us what we needed for our domain specific language, which is used to describe database object and to code functionality for them, while still retaining a clear syntax. The result is something not-quite-Python but still clear if you know what we are trying to do.

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