

suoclasses of extrema

Maxima minima Absolute local

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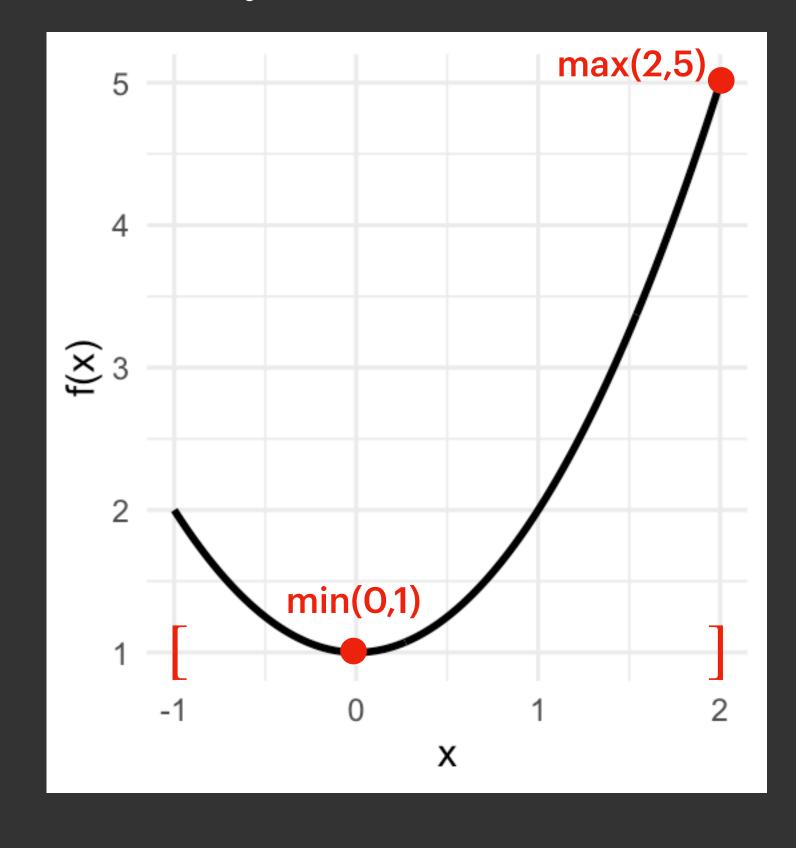
Extrema can be divided in the following subsections

- Maxima and minima
- Absolute (or global) and local (or relative) extrema

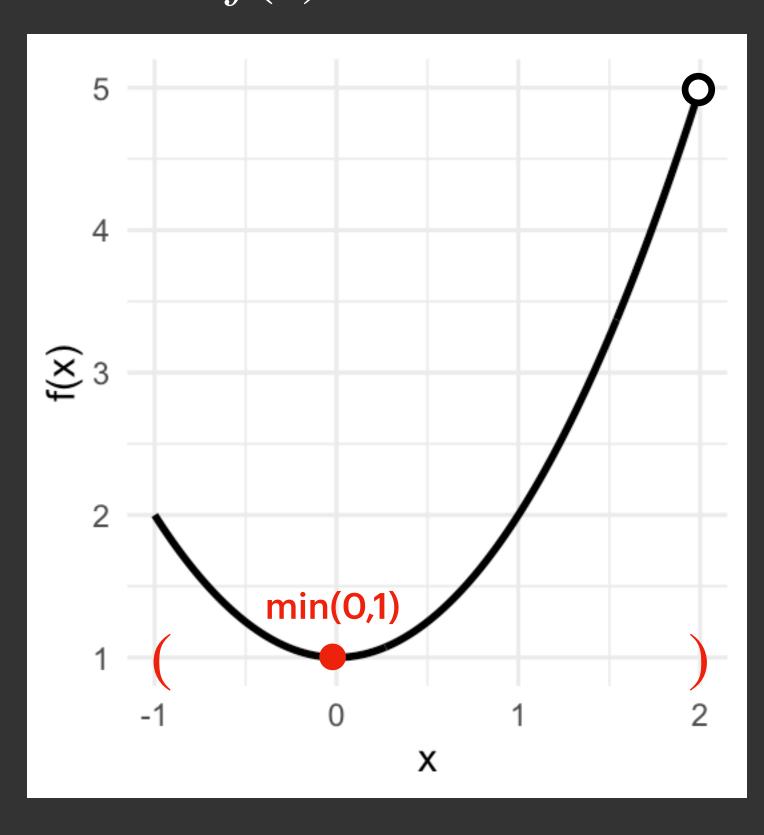
Note: Extrema, Maxima and Minima are the plural form of Extremum, Maximum and Minimum, respectively

example

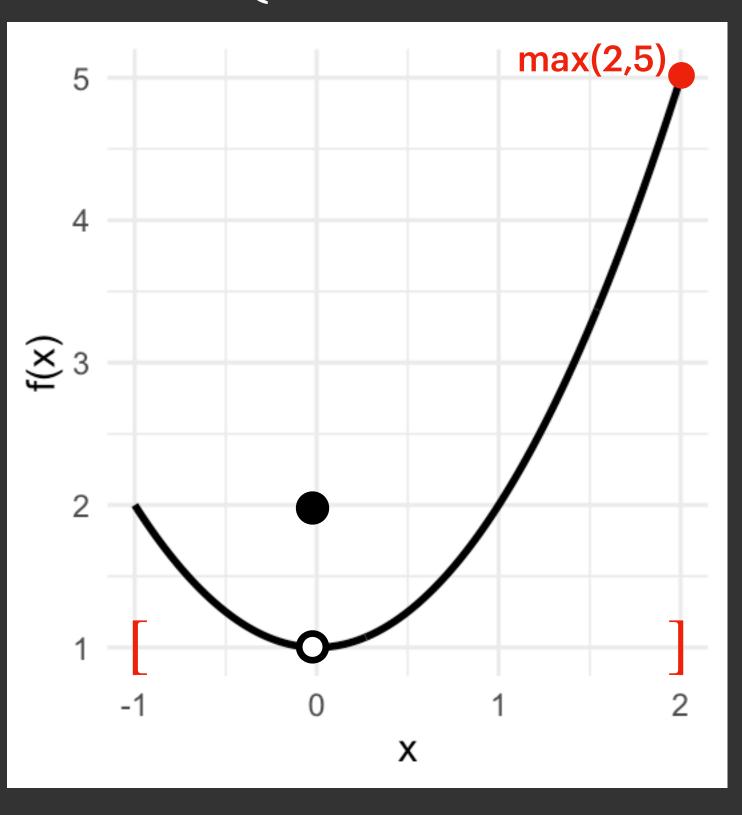
$$f(x) = x^2 + 1$$



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$$f(x) = \begin{cases} x^2 + 1, & x \neq 0 \\ 2, & x = 0 \end{cases}$$



extrema can occur in interior points or endpoint of an interval, extrema occurring at endpoints are called endpoint extrema