# 1 Basics

$$x, x', x_1, x_n, x_{2n-1}, \hat{x}, \widehat{x}, \mathbf{x}$$
$$y, y', y_1, y_n, y_{2n-1}, \hat{y}, \widehat{y}$$

# 2 WildCards

$$q, q_a, q_{a,b}, \text{ but accidentally } q_{a+b}$$
$$f, f(a), f(q), f(a,b), \text{ but } f(a+b)$$
$$g, g(a), g(a)(b)$$
$$z(a+b), \widehat{z}(a)$$

# 3 Practical

$$f(x) = \sum_{i=0}^{\infty} f_i x^i$$

# 4 Impractical

$$a, b, c, ab, bc, abc$$
$$\varepsilon, \varepsilon_1, \mathcal{T}_\varepsilon, \mathcal{T}_{\varepsilon_1}, \mathcal{T}_{\varepsilon_1,\varepsilon_2,\varepsilon_3}$$

# 5 Declaration order

$$\varepsilon, \varepsilon_1, \mathcal{T}_\varepsilon, \mathcal{T}_{\varepsilon_1}, \mathcal{T}_{\varepsilon_1,\varepsilon_2,\varepsilon_3}$$

# 6 Notations?

$$a + b; \mathbf{baz}, \mathbf{foo}, \mathbf{foo}$$
$$\left|(a)_j\right|; \left|(abc)_j\right|$$
$$\left([a]_j\right); \left([abc]_j\right)$$

# 7 More detail

$$f(x) = \sum_{i=0}^{\infty} f_i x^i$$