

Basic Concepts

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Basic Syntax

Bash is a POSIX-compliant shell, but supports extra features and extensions.

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In bash (and pretty much all other shells), **whitespace is very important**. `<Space>` and `<Tab>` separate *words* (a.k.a *tokens*).

Read the [manual online](#).

$$\begin{aligned}y &= y(x, t) = Ae^{i\theta} \\&= A(\cos \theta + i \sin \theta) \\&= A(\cos(kx - \omega t) + i \sin(kx - \omega t)) \\&= A \cos(kx - \omega t) + iA \sin(kx - \omega t) \\&= A \cos\left(\frac{2\pi}{\lambda}x - \frac{2\pi v}{\lambda}t\right) + iA \sin\left(\frac{2\pi}{\lambda}x - \frac{2\pi v}{\lambda}t\right) \\&= A \cos \frac{2\pi}{\lambda}(x - vt) + iA \sin \frac{2\pi}{\lambda}(x - vt)\end{aligned}$$