# Finance Cheat Sheet

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## CashFlow

**Gross cash flow 1**

EBIT

+ depreciation

+ amortization

**= EBITDA**

- operational taces (EBIT * Tx)

**= Gross Cash Flow**

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**Gross cash flow 2**

Net Income = Gross Profit — Operating Expenses — Other Business Expenses — Taxes — Interest on Debt + Other Income

+ depreciation

+ amortization

+ (financial expenses * (1-Tx))

**= Gross Cash Flow**

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**Gross cash flow 3**

NOPAT = EBIT * (1-Tx)

+ depreciation

+ amortization

**= Gross Cash Flow**

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**Free cash flow**

Gross Cash Flow

- change in NOWC (KTNO)

- investment in CAPEX

**= Free Cash Flow**

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**Free Cash Flow for shareholder**

Free Cash Flow

- (financial expenses * (1-Tx))

+ change in debt

**= Free Cash Flow for shareholders**

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**Net Free Cash Flow**

Free Cash Flow for shareholders

- Dividends

+ Change in capital shares

## CashFlow (cont)

**= Net Free Cash Flow**

## Future/Present Value

Valor presente:

$$V_0 = \frac{V_n}{(1+i)^n}$$

Valor futuro:

$$V_n = V_0(1+i)^n$$

Valor presente cuotas uniformes:

$$V_0 = C_1\left[\frac{1-(1+i)^{-n}}{i}\right]$$

Valor futuro cuotas uniformes:

$$V_n = C_1\left[\frac{(1+i)^n-1}{i}\right]$$

Valor presente cuotas crecientes a tasa g:

$$V_0 = C_1\left[\frac{1-(1+g)^n(1+i)^{-n}}{i-g}\right]$$

Valor futuro cuotas crecientes a tasa g:

$$V_n = C_1\left[\frac{(1+i)^n-(1+g)^n}{i-g}\right]$$

Valor presente perpetuidad:

$$V_0 = \frac{C_1}{i-g}$$

## Interest rate convertion

Intereses periódicos:

$$(1+e.a) = (1+i_q)^q$$

Intereses vencidos:

$$i_v = \frac{i_a}{1-i_a}$$

Intereses anticipados:

$$i_a = \frac{i_v}{1+i_v}$$

Conversión de tasa en dólares:

$$(1+i_{COP}) = (1+i_{US}) \times (1+dev)$$

Conversión de tasa en UVRs:

$$(1+i_{COP}) = (1+i_{UVRs}) \times (1+infl)$$

Conversión de tasa en nominales:

$$(1+i_{nom}) = (1+i_{reales}) \times (1+infl)$$

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