

## **Introduction to Options**

#### Part One – Option Input Variables





Options involve risk and are not suitable for all investors. For more information, read the "Characteristics and Risks of Standardized Options" before investing in options. For a copy call 203- 618-5800 or click <u>here</u>.

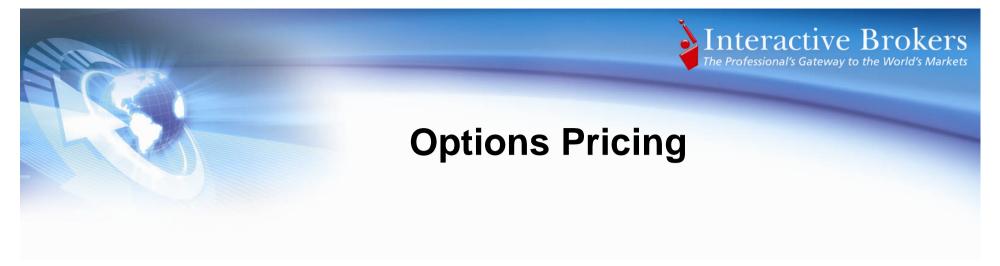
In order to simplify the computations, commissions, fees, margin interest and taxes have <u>not</u> been included in the examples used in these materials. These costs will impact the outcome of all stock and options transactions and must be considered prior to entering into any transactions. Investors should consult their tax advisor about any potential tax consequences.

Any strategies discussed, including examples using actual securities and price data, are strictly for illustrative and educational purposes only and are not to be construed as an endorsement, recommendation or solicitation to buy or sell securities. Past performance is not a guarantee of future results.

Most strategies involving futures and/or options spreads require a margin account.

Multiple leg strategies involve multiple commissions charges.

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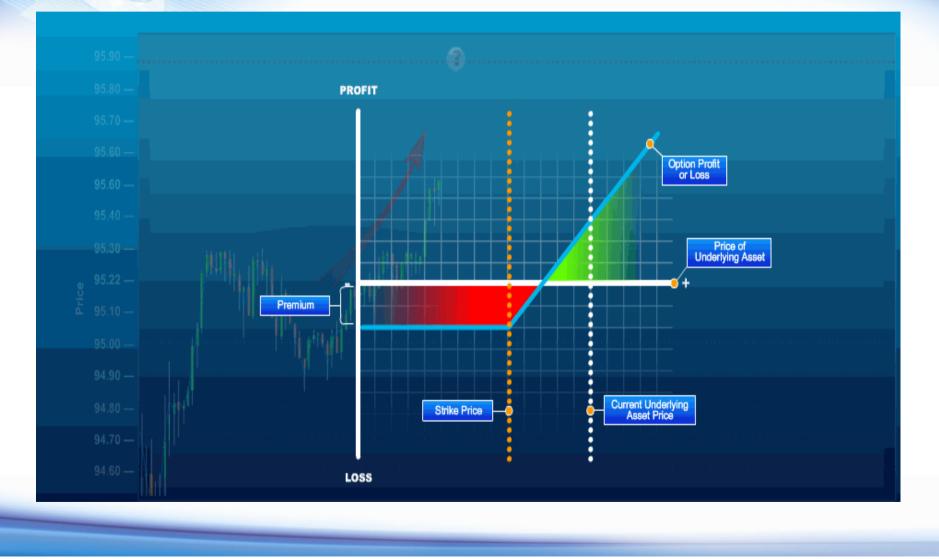
Input Variables

- Greek Risk Measurements
- **Combining** Options
  - IB Options Calculator



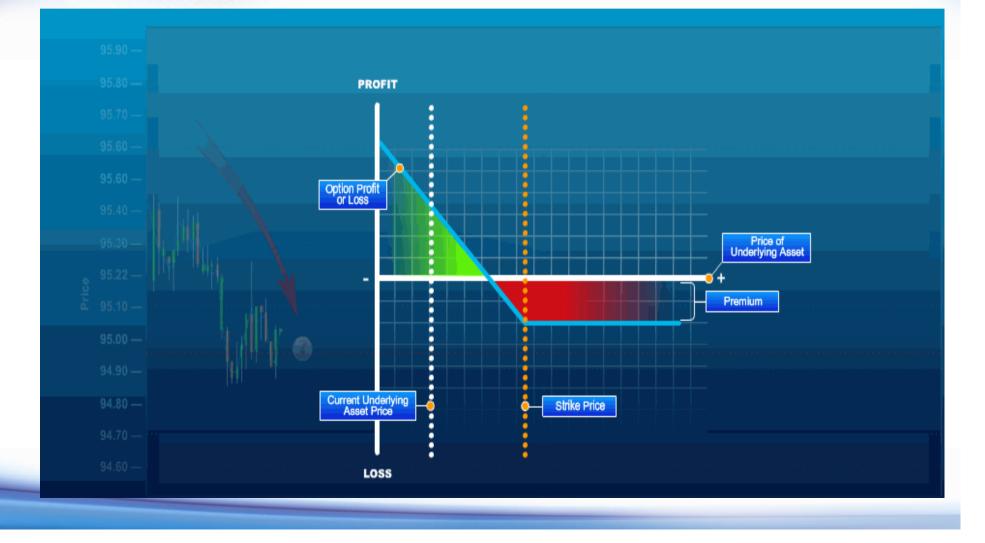


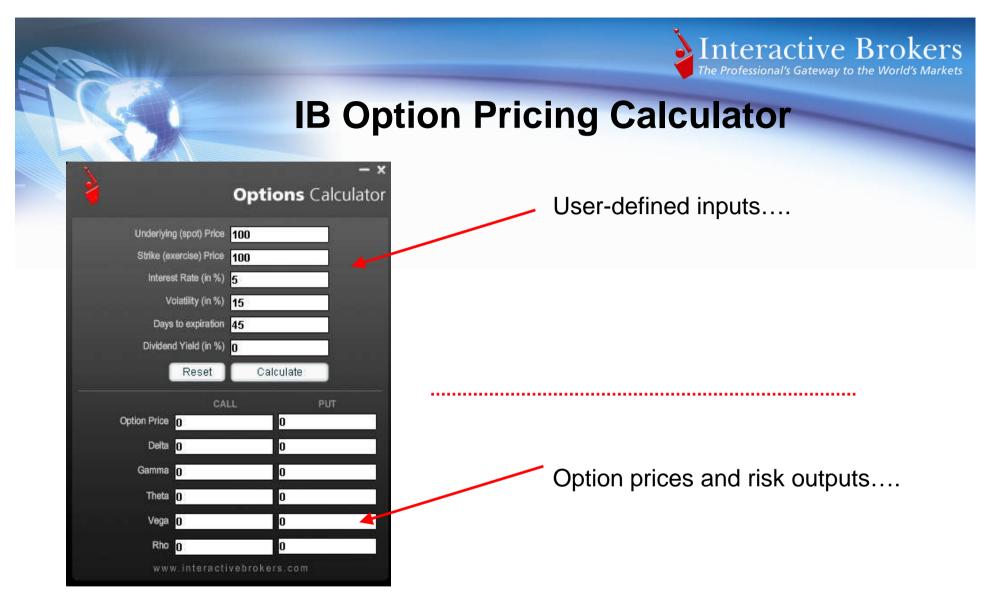
#### **Profit & Loss Profile of a Call Option**





#### **Profit & Loss Profile of a Put Option**





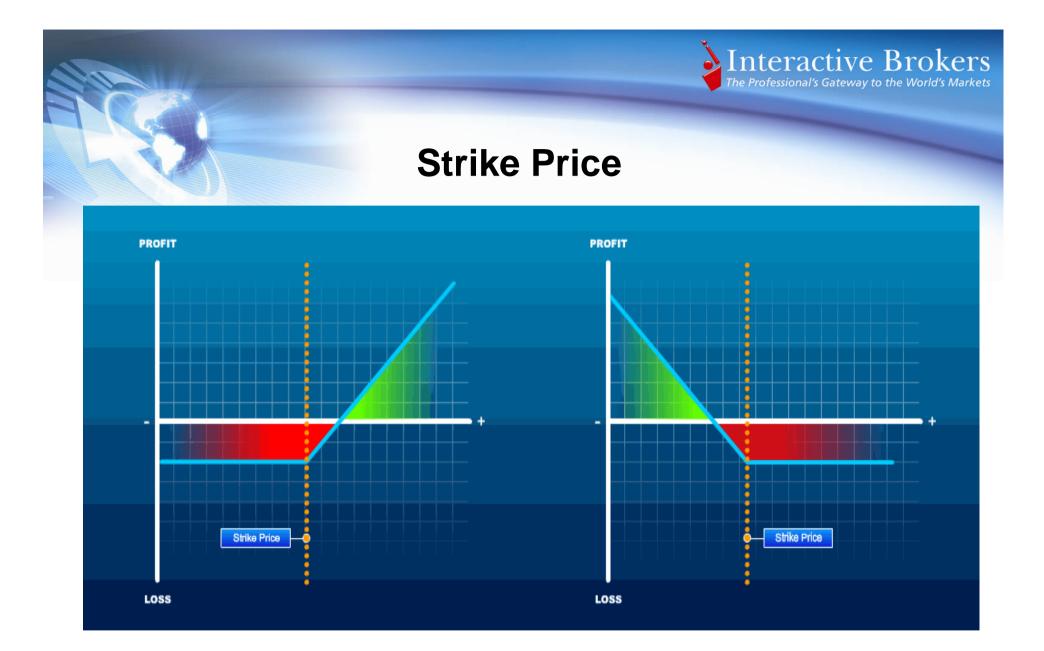
Available for download from http://individuals.interactivebrokers.com/en/general/education/TradersUniversity.php?ib\_entity=llc



## **Option Pricing Model Inputs**

- □ Strike Price
- □ Rate of Interest
- □ Implied Volatility
- **Underlying Asset Price**
- □ Time Value
  - Intrinsic and extrinsic value
- Dividends, Exercise

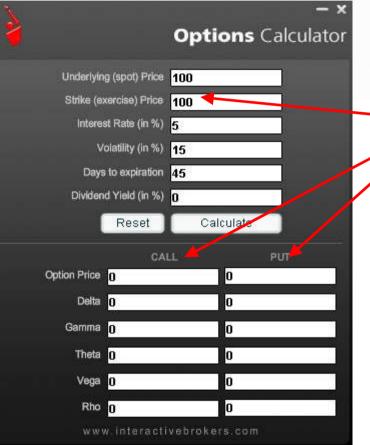






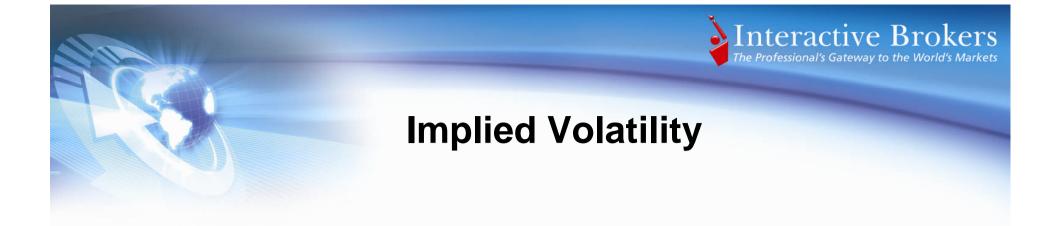


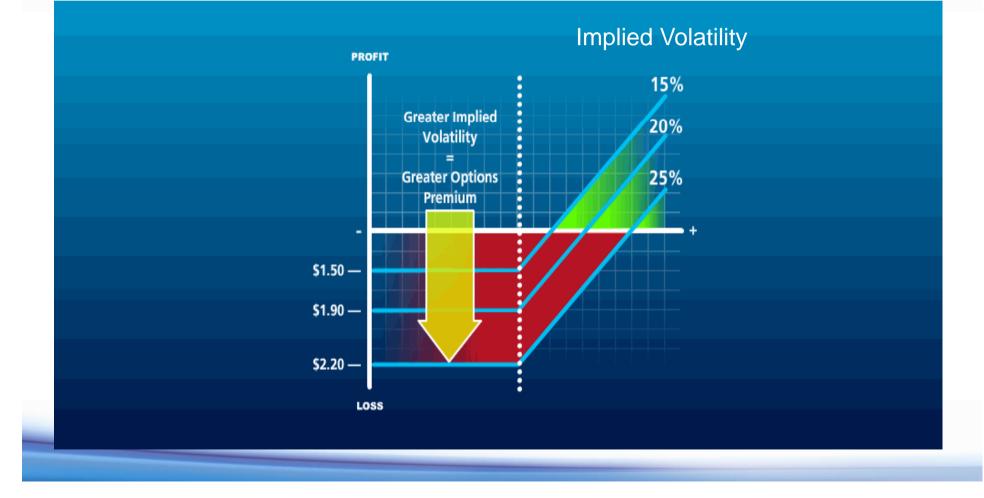
### **Interest Rates**



Try varying the Interest Rate field and notice the impact on the Call and Put output values

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# **Underlying Asset Price**

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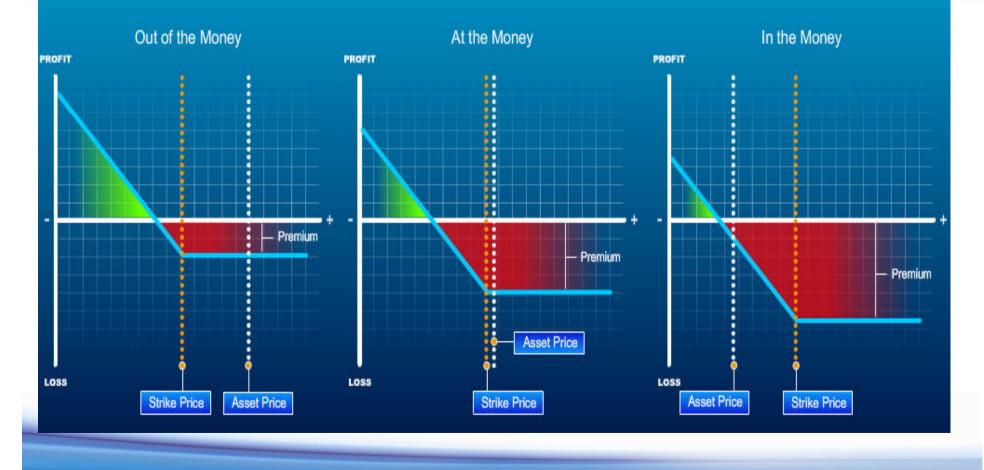
Underlying Asset Price Input - CALLS

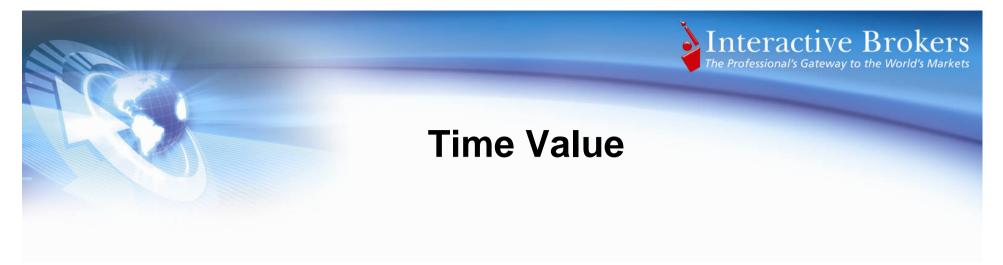


## **Underlying Asset Price**

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Underlying Asset Price Input - PUTS

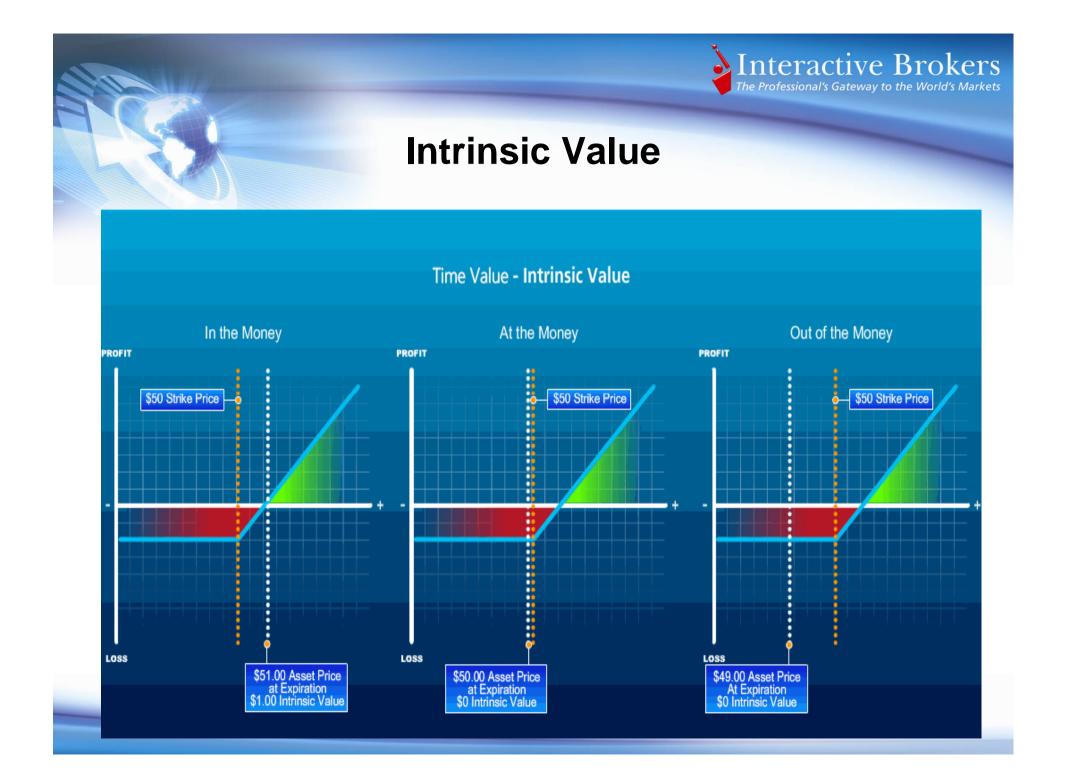


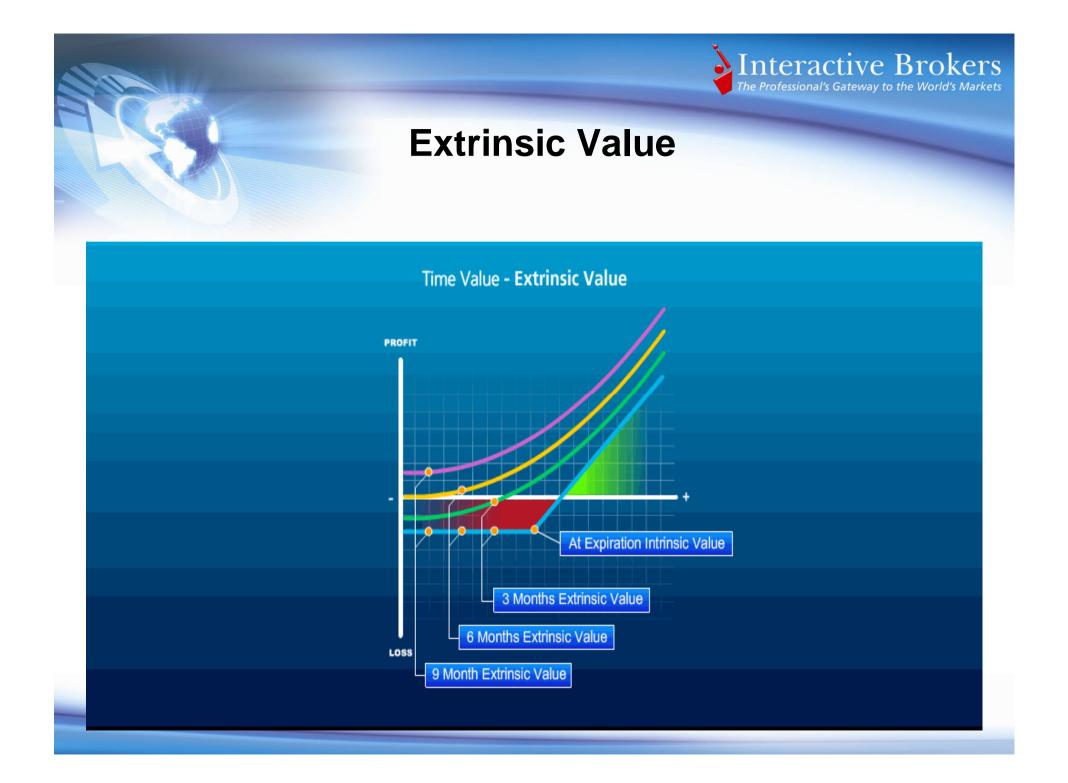


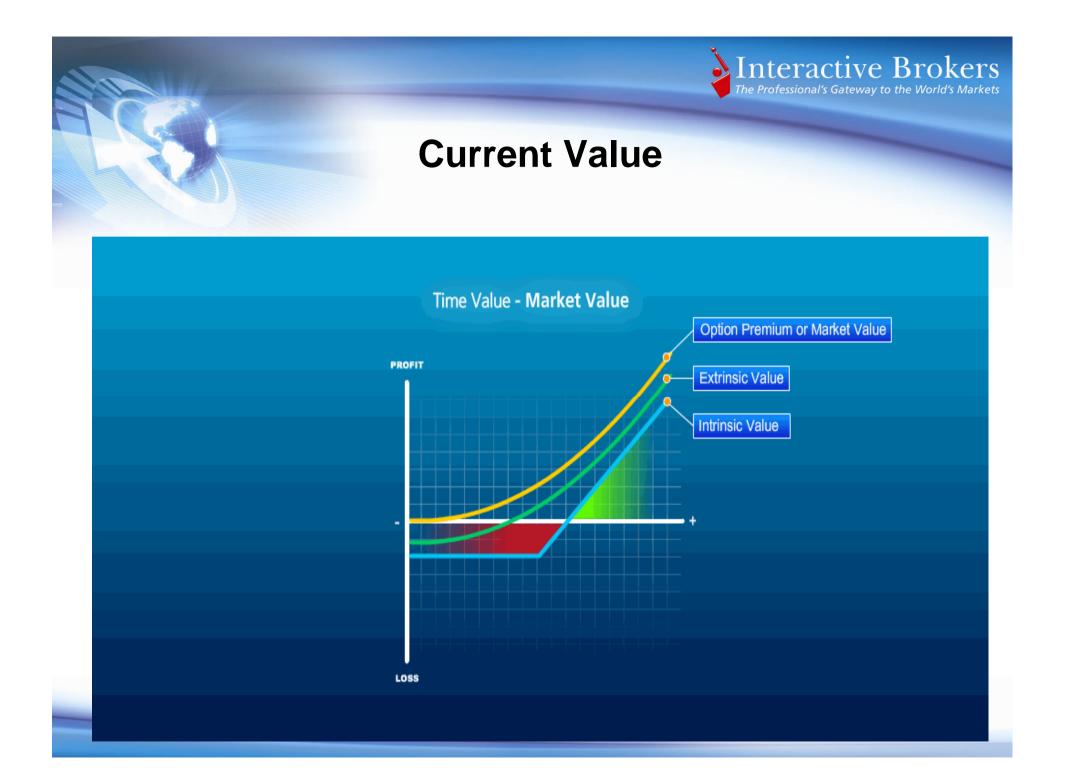
□ Current Value of an option is made up of:

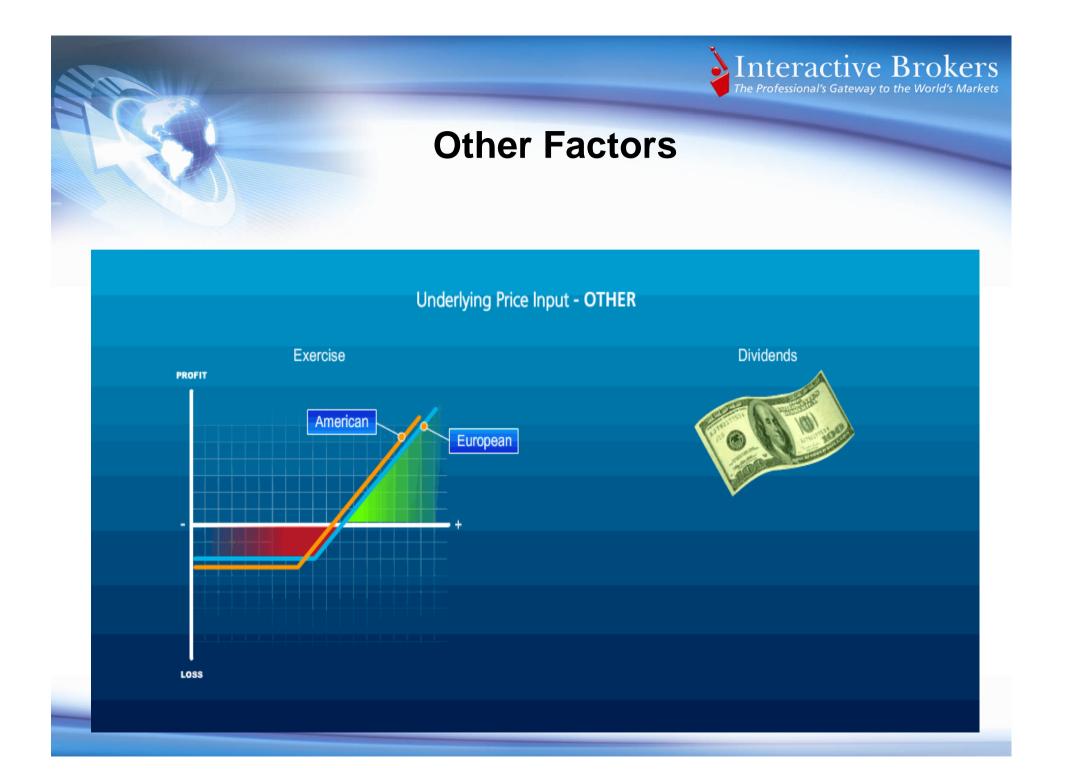
- Time Value
- Extrinsic Value
- Adjusted for Volatility









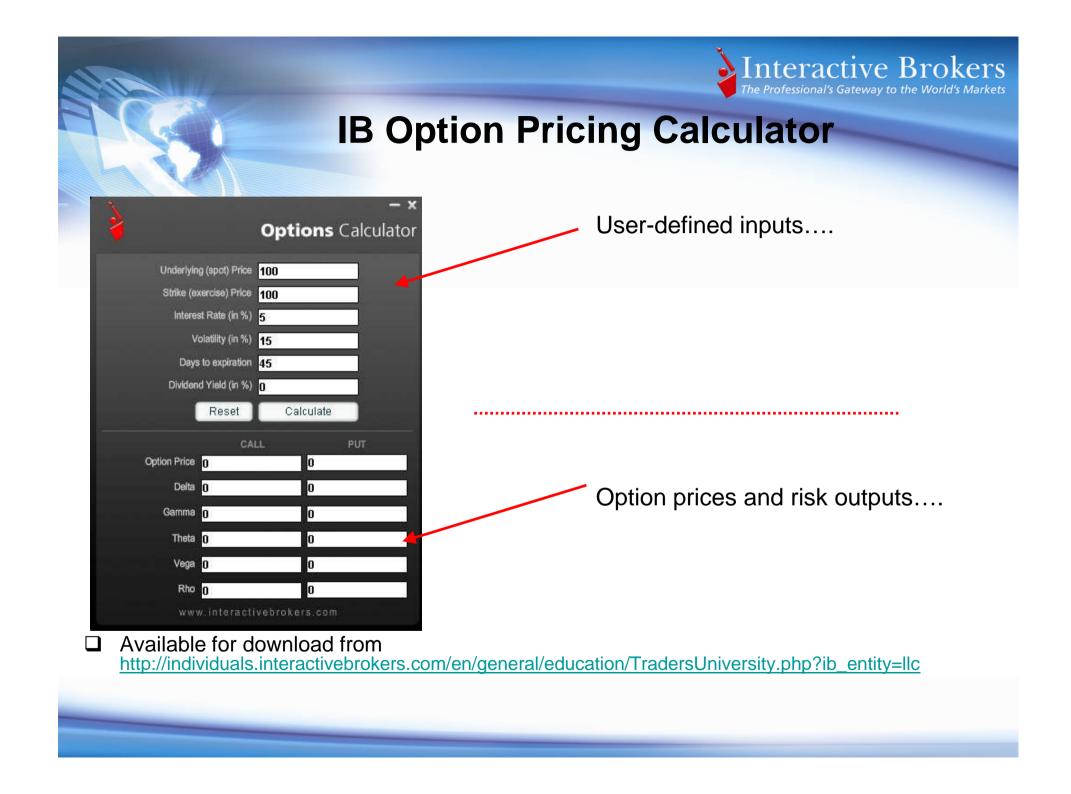




# **Option Pricing Model Inputs**

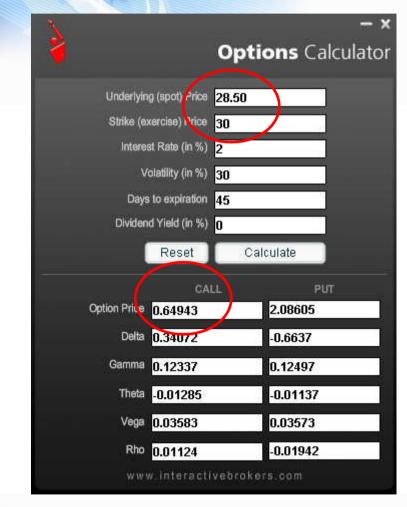
- □ Strike Price
- □ Rate of Interest
- □ Implied Volatility
- □ Underlying Asset Price
- □ Time Value
  - Intrinsic and extrinsic value
- Dividends, Exercise







## **Call Option Example**

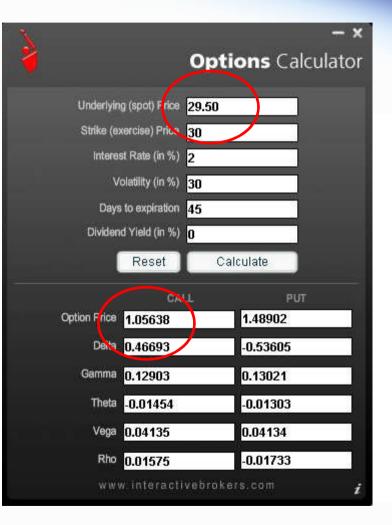


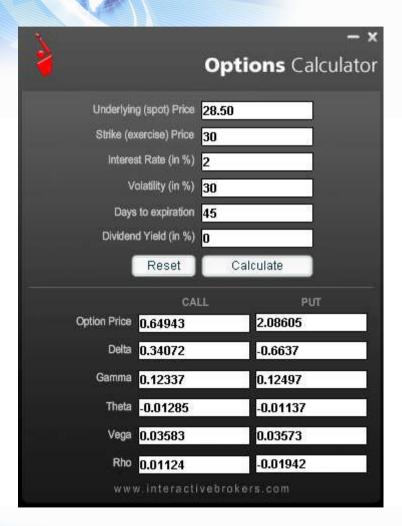
□ Share price \$28.50

□ Call premium 65 cents



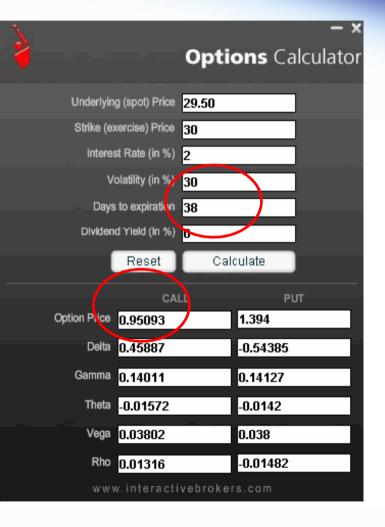
### **Share Price Increase**



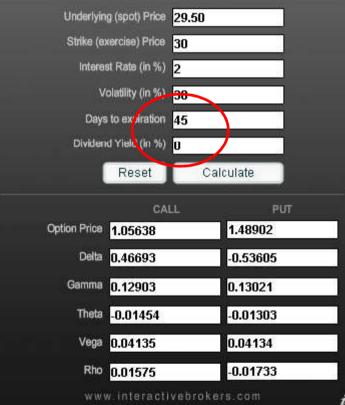




### **Time Decays by One Week**









Session 2 – GreeksQuestion time

