ExcelOutreach

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Spreadsheet - drawbacks

Spreadsheets facilitate quick development but result in complex applications full of

myriad formulas

labyrinth cell references

spaghetti macros

and the applications are delivered with a note saying *"don't mess with it"*.

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ExcelOutreach - advantages

ExcelOutreach paves an elegant way to

organize formulas

reuse formulas

infer, embed and format cell values

plug-in alerts

and applications can be distributed with a note saying *"play with it"*.

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Traditional Cell approach

Developer   develops modules

Writes functions and subroutines

Builds more functions and subroutines by reusing
other functions and subroutines.

User   builds his own applications

Enters formulas in cells

Uses cell references

Copy / Paste cell values

Format the results

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ExcelOutreach, A shift from Cell to Formula

Developer consolidates formulas

> Defines a new formula
>
> Annotates the formula with a **Name**
>
> Assigns an appropriate display format (font, color and type)
>
> Uses this formula name in subsequent formulas

User automates cell formulas in his workbook

> Uses the annotated formula **Name**s as the Title
>
> Selects an applicable cell range
>
> Makes use of ExcelOutreach, which automatically fills and formats all cell values for him

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Developers

More Time for Productive Work, No Cumbersome Maintenance.

Use object based design, associate Usage Names with Application Definitions, Formats and Event Handlers. Provide a flexible application development infrastructure.

Automate input values generation via user specified computational methods or database retrieval.

A	B	C	D	E
UsageName	Col.Size	Format	Calculation Method	Event Handler
Rate			7.30%	
Underlyer				
Symbol		XYZ		
StockPrice		93.5	ThisBook!GetClosePrice(Symbol)	
DividendYield		13%	ThisBook!GetDividendYield(Symbol)	
Volatility		7%	ThisBook!GetVolatility(Symbol)	
OptionCycle		Mar	ThisBook!GetOptionCycle(Symbol)	
Option - Details				
StrikePrice		100.35		
Expiration		16-Dec-01		
OptionSymbol(Type)		XYZ100A	ThisBook!GetOptionSymbol(type,symbol,StrikePrice,Expiration)	
Option-Values				
DaysToExpiration			days360(ThisWorkBook!TodaysDate(), Expiration)	
FairPrice(Type)		8.23	Thisbook!Fairoptionvalue(Type,stockprice,strikeprice,	
OptionPrice(Type)		8.23	DDESource|LastPrc!OptionSymbol(Type)	
Option Analysis				
SimulatedPrice		34.5		
ImpliedVolatility(Type)		10.34%	ThisBook!ImpVolatility_iter(Type, stockprice, StrikePrice, Rate, Expiration, OptionPrice(Type))	
Arbitrage				
PutCallParity		-2.34	(OptionPrice("C") + PV_StrikePrice) -	
Arbitrage		ALERT	ThisBook!Profitable (PutCallParity, StockPrice, StrikePrice)	ThisBook!Notify(Symbol,Arbitrage)

A	B
UsageName	GeneratorRoutin
Symbol	ThisBook!GetPositionSymbols()
StrikePrice	Thisbook!GenStrikePrices(StockPri
Expiration	Thisbook!GenExpirationDates(Option)
SimulatedPrice	Thisbook!GenSamplePrices(StrikePrice, 2, 10)

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Business Users

Focus on the Results, Forget Cell Entries & Formats

Cell Formulae are automatically inferred, embedded, valued and formatted as per definitions. Can be repeated and undone any number of times at cell, range and sheet level with cell value generation and multi-level inference.

	A	B	C	D	E	F	G	H	I
5									
6		Symbol	StockPrice	StrikePrice	Expiration	OptionSymbol("C")	FairPrice("C")	FairPrice("P")	*ImpliedVolatility("C")*
7		XYZ							
8									
9									
10									
11									

Values can be automatically removed, reverting back to as it was before the changes.

	A	B	C	D	E	F	G	H	I
5									
6		Symbol	StockPrice	StrikePrice	Expiration	OptionSymbol("C")	FairPrice("C")	FairPrice("P")	*ImpliedVolatility("C")*
7		XYZ	38	30	18-May-01	XYZ30E	8.03	0.00	48.25%
8		XYZ	38	30	15-Jun-01	XYZ30F	8.44	0.24	61.44%
9		XYZ	38	30	17-Aug-01	XYZ30H	9.72	1.15	61.44%
10		XYZ	38	30	16-Nov-01	XYZ30K	11.31	2.21	59.79%
11		XYZ	38	35	18-May-01	XYZ35E	3.19	0.15	48.25%
12		XYZ	38	35	15-Jun-01	XYZ35F	4.52	1.29	61.44%
13		XYZ	38	35	17-Aug-01	XYZ35H	6.47	2.01	61.44%
14		XYZ	38	35	16-Nov-01	XYZ35K	8.44	4.17	59.79%
15		XYZ	38	40	18-May-01	XYZ40E	0.39	2.35	61.44%
16		XYZ	38	40	15-Jun-01	XYZ40F	1.98	3.73	61.44%
17		XYZ	38	40	17-Aug-01	XYZ40H	4.12	5.36	59.79%
18		XYZ	38	40	16-Nov-01	XYZ40K	6.22	6.76	59.79%
19		XYZ	38	45	18-May-01	XYZ45E	0.01	6.96	48.25%
20		XYZ	38	45	15-Jun-01	XYZ45F	0.73	7.44	61.44%
21		XYZ	38	45	17-Aug-01	XYZ45H	2.51	8.66	59.79%
22		XYZ	38	45	16-Nov-01	XYZ45K	4.53	9.89	59.79%
23		XYZ	38	50	18-May-01	XYZ50E	0.00	11.95	48.25%
24		XYZ	38	50	15-Jun-01	XYZ50F	0.23	11.98	61.44%
25		XYZ	38	50	17-Aug-01	XYZ50H	1.49	12.55	61.44%
26		XYZ	38	50	16-Nov-01	XYZ50K	3.28	13.46	59.79%

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Business Users

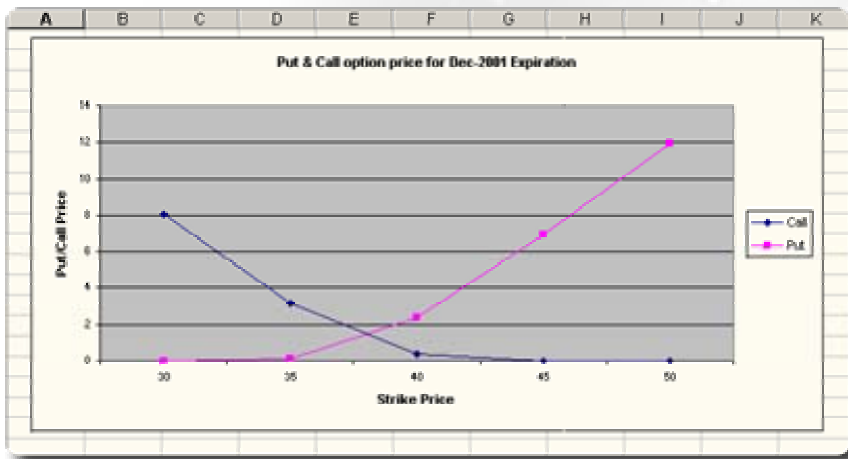### Create Reports with Less Effort

Creates Data summary, Excel bar charts, and real time graphs from selected ranges and parameters.

Graph features and formats are preserved after regeneration.

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Summary

Consolidated formulas gives a good overview and scope of the application

Formulas by Name makes it easy to comprehend and use in other formulas

Inference automatically fills cell formulas without key strokes

Alerts helps us to eyeball only when something *really* happens

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Beneficiaries

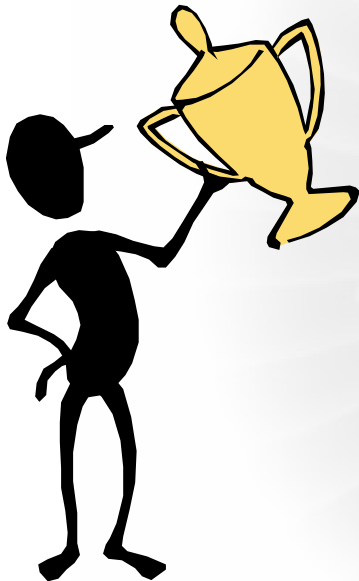**Mobile device users**… work away with stick and avoid key strokes

Developers… will have more time for productive work

Business Users…. can focus on the results

Managers…. create reports, summary charts with less effort

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