Bloomberg Excel Add-in Tutorial

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Importing Data

Importing Data

- Step 1: Locate Formulas Tab and Click "Insert Function":

- Step 2: Open "or select a category" tab; click "Bloomberg"
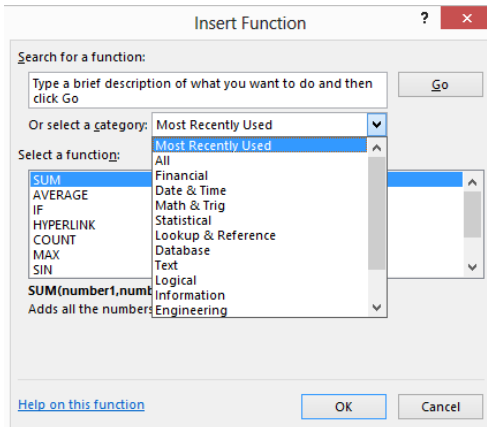
- Step 3: Select Data Type:
  - **BDP (Bloomberg Data Point):** provides current data and descriptive real-time or streaming data
   - =BDP (security, field)
    - Example: =BDP("IBM US Equity","PX_LAST")
  - **BDH (Bloomberg Data History):** provides historical end-of-day and historical intra-day data
    - Formula: =BDH (security, field(s), start date, end date, [optional argument(s)])
    - Example: =BDH("IBM US Equity","PX_Last", "01/01/2008","10/02/2013", "Sort=d", Per=cm")

Searching for a Field Mnemonic

- Step 4: Fill necessary data into "New Function Builder"
  - Security Example:
    - IBM US EQUITY
  - Field Example:
    - "PX_LAST"
  - Start Date Example:
    - 01/01/2008
  - End Date Example:
    - 10/03/2013
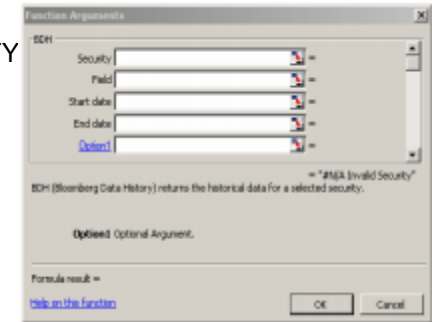
- Step 5: Select "Option1, Option 2,…" to insert an additional parameter
  - Example Parameters:
  - Sort Descending: "Sort=d"
  - Calculated Monthly: "Per=cm"
  - Hide Dates: "Dts=h"
  - Currency: "Fx=USD"
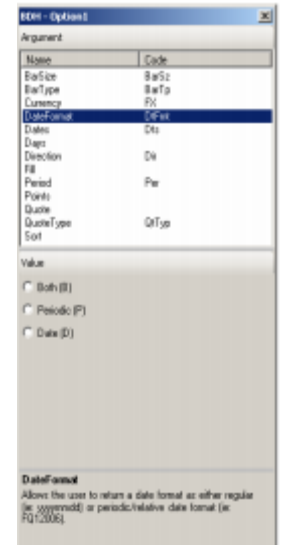
- Step 6: Click "Ok" when ready

- Step 7: Format Data as Needed

Searching for Field Mnemonics

Bloomberg Terminal

- Step 1: Enter a security into the task bar; hit <GO>
  - Ex: "IBM US EQUITY"

- Step 2: Type "FLDS" into task bar; hit <GO>

- Step 3: Input Search Text
  - Example: "Market Cap"

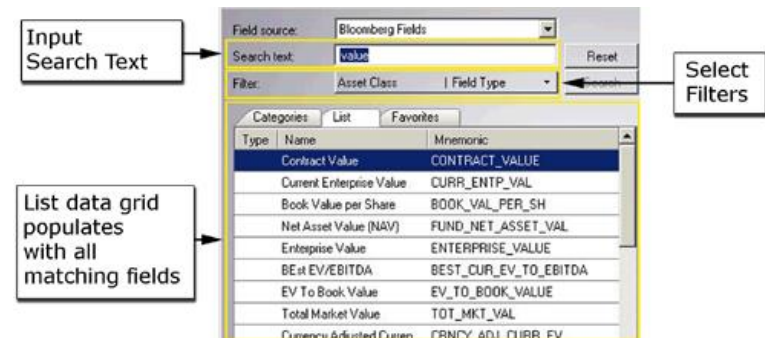- Step 4: Select the search result that corresponds to the exact data you want.

- Step 5: Copy Mnemonic
  - Example: Dividend Yield = "DIV_YIELD"

- Step 6: Paste Pneumonic into formula builder
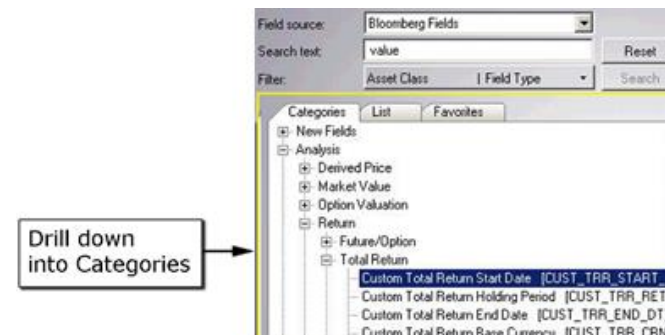
Excel Spreadsheet

- Step 1: Select **field search** tool from Bloomberg menu, or Click icon on toolbar

- Step 2: Searching for a Field Mnemonic

- Step 3: Selecting a Field from the Category List

Bloomberg Syntax and Populating a Table

Security Syntax

Type	Syntax	Type	Syntax
Govt	CT10 Govt	Equity	IBM US Equity
Corp	035229AL7 Corp Cusip	Mtge	03072sge Mtge
Cmdty	CLZ7 Comdty	M-Mkt	SOALA LNST M-Mkt
Index	SPX Index	Muni	01069DBZ9 Muni
Crncy	JPY Crncy	Pfd	EP003025 Pfd

Argument Syntax

- Using Absolute Values
  - Ex: =BDP("IBM US EQUITY", "PX_LAST")

- Using Cell References
  - Ex =BDP($A2, B$1)

Populate Table Function

- The **Populate Table** function builds an automatically updating data table from *row* and *column* headers

- Step 1: Insert the Securities and Fields of interest in your comparables table; click upper right cell when ready.

- Step 2: Select **Populate Data** from the Bloomberg menu, or Click on the Populate Table icon on the toolbar

- Step 3: Make necessary formatting adjustments.

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Building a Comparables Universe

Proper Entry

	A	B	C	D	E
1					
2					
3			SECURITY_NAME	PX_Last	Cur_Mkt_Cap
4		MPC US EQUITY	=BDP($B4, C$3)		
5		VLO US EQUITY			
6		HFC US EQUITY			
7		NOV US EQUITY			
8		PSX US EQUITY			
9					
10					

- Common Error:
  - Failure to lock "Security" Column, and "Field" Row
  - Ex: =BDP($B4, C$4)

Completed Table - Unformatted

	A	B	C	D	E
1					
2					
3			SECURITY_NAME	PX_Last	Cur_Mkt_Cap
4		MPC US EQUITY	Marathon Petroleum Corp	65.08	20374869141
5		VLO US EQUITY	Valero Energy Corp	34.13	18503332031
6		HFC US EQUITY	HollyFrontier Corp	41.61	8316051758
7		NOV US EQUITY	National Oilwell Varco Inc	78.58	33594390625
8		PSX US EQUITY	Phillips 66	58.9301	36008089844
9					
10					

- Drag formula to complete table

Completed Table - Formatted

Residential REIT

(CDN$ millions, except per share data)

Company	Unit Price	Equity Value	Enterprise Value	LTM FFO	FY1 FFO	FY2 FFO
Boardwalk REIT	$56.91	$2,724.4	$5,105.3	17.1x	17.9x	16.8x
CAP REIT	$20.25	$2,085.6	$4,601.2	14.0x	12.7x	12.4x
InterRent REIT	$5.46	$312.1	$661.6	18.6x	13.3x	12.1x
Milestone Apartments REIT	$9.50	$350.1	$1,166.0	28.7x	9.6x	9.2x
Morguard NA Residential	$9.23	$270.2	$1,380.7	10.9x	12.3x	10.5x
Pure Multi-Family REIT LP	$4.50	$108.4	$259.0	22.0x	11.5x	9.2x
True North Apartment REIT	$8.43	$156.1	$479.5	14.9x	11.7x	10.5x
Average				18.0x	12.7x	11.5x

	W	X	Y	Z	AA	AB	AC		AD	AE
		#N/A Invalid Security							#N/A Invalid Security	
					FFO					
		LFY	LQ	LQ-1	LTM	FY1 (per unit)	FY2 (per unit)		LFY	LQ
		$150.3	$81.8	$72.5	$159.6	$3.18	$3.39		$134.5	$73.4
		$129.2	$77.2	$57.2	$149.2	$1.59	$1.63		$122.1	$72.5
		$13.5	$8.9	$5.6	$16.8	$0.41	$0.45		$11.7	$7.6
		-	$12.2	-	$12.2	$0.99	$1.03		-	$9.9
		$19.7	$14.6	$9.5	$24.8	$0.75	$0.88		$18.8	$13.4
		$1.7	$3.2	-	$4.9	$0.39	$0.49		$1.6	$3.0
		$3.7	$6.8	-	$10.5	$0.72	$0.80		$3.4	$6.3

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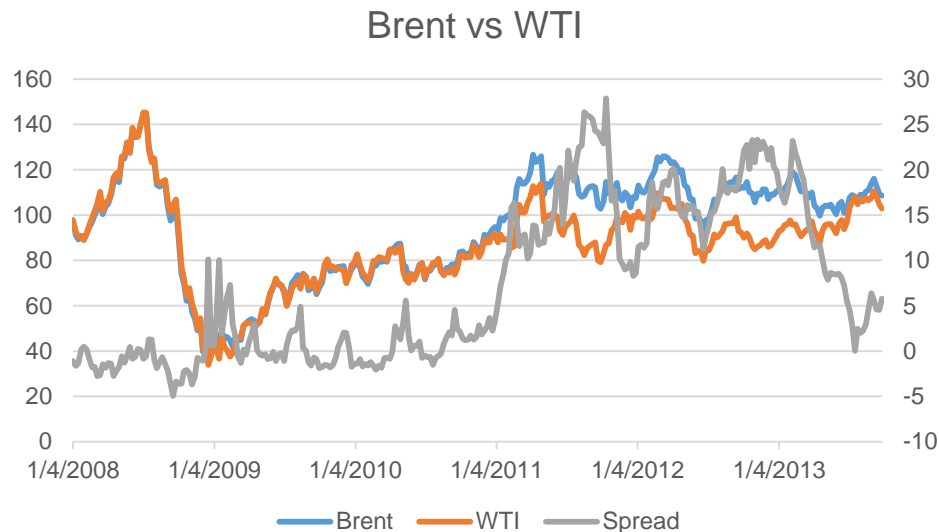
Building a Chart Book

Building a Macro Chart

- Step 1: Insert Start Date in Cell B1; drag across sheet
- Step 2: Insert End Date function "=today()" in Cell C1; drag across.
- Step 3: Insert Securities of interest in B3,C3,D3,...
- Step 4: Insert Field of interest in B4,C4,D4,…
- Step 5: Insert **BDH (Bloomberg Data History)** function in cell A5
  - Formula: =BDH(Security, Field, Start, End, "Option 1", "Option 2",…)
  - Ex: =BDH(B3,B4,B1,B2, "Sort=D", "Per=cw")

Building a Macro Chart

- Step 1: Select Data
- Step 2: Format Data

Brent vs WTI

Why is this Useful?

- Automatically updating macroeconomic charts.
- Can be linked directly to PowerPoint presentation
- Professional Limestone branding

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