

## Index constituents

What do you mean:

### "The 'Top 200' index is not the top 200 stocks?"!

Robert Brain August 2022

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Version: 1c

Candlestick Charts

#### Introduction

#### About this presentation

This presentation expands on an information graphic I have had for a long time that depicts how the stocks in each market index correspond to the other indexes.

Diagrammatic indication of the composition of the key indices. For most indices, low liquidity stocks are excluded from the index (except All Ords).		All stocks sorted by market cap	Stock Code	Market Cap (\$mill)	Market Cap Rank (on XAO)	Stock name
((((		1	BHP CBA	195,811		BHP Billiton Limited Commonwealth Bank
	XIX	2 3	CSL	171,464 139,618		CSL Limited
		19	S32	17,634	19	South32 Limited
		20	NCM	17,237	20	Newcrest Mining Limited
	20	21	QBE	17,102		QBE Insurance Group Ltd
00 – XTO *		23	REA	16,523	23	REA Group
		38	TPG	11,788	38	TPG Telecom Limited (not in XFL, XMD)
SX 100		47	REH	9,838	44	Reece Limited (in XMD not in XFL)
NAS	idCap XMI					

#### Index constituents

Does it surprise you to hear that the 200 stocks in our XJO\* "Top 200" index are NOT literally the top 200 stocks securities in our market by market cap?

(they are selected from the top 349)

Stay tuned – We will reveal all...

\* XJO index – aka S&P/ASX 200, or "Top 200" index



Candlestick Charts

#### Introduction

### Today's agenda

- What are the top 5 securities on ASX market?
- What is today's *market capitalisation* of these securities?
- Brief look at "the list of stocks by market cap"
- In the Top 20 index (XTL) are these securities literally the top 20 in the market?
- What about the XJO Top 200 index?
- If not, why not??
- Does this matter to you?





# About... Robert Brain

consultant, educator and part-time\* share trader web-based sharemarket-support business

- Many years experience as trainer, presenter, conference facilitator (*Scouts*)
- Share Market active 15++ years\* (slowly at first)
- Chartist ie. technical analyst (ATAA member and ex-national director)
- Provide support and tuition to traders and investors
  <u>Brainy's Share Market Toolbox</u>
- Member Mensa
- \* Not yet enough capital to live off the proceeds of trading (after trading as a hobby until a career change in 2008). © Copyright 2022 Robert B. Brain – Brainy's Share Market Toolbox – www.robertbrain.com

- Engineering Degree (structured thinking with an eye for charts and diagrams)
- 30+ years professional experience (IT and management)
- No AFS license! (Can't give advice)
- BullCharts software (convenor Australian BullCharts User Group and authorised reseller with special pricing)

**Conflict of interest?** 

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### What are the top 5 securities on our ASX? (by market cap) and what are they actually worth?



10



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## Top stocks and market cap

### Our top 5 stocks (by market cap)

Stock Code	Shares on issue* (millions)	Share Price** (at 31 July)	-
BHP	5,062	\$38.68	-
CBA	1,702	\$100.77	-
CSL	482	\$289.84	-
NAB	3,175	\$30.60	-
WBC	3,501	\$21.51	-

Notes:

- \* Shares on issue in millions, rounded to the nearest million.
- \*\* Share Price and other data here as at 31 July 2022.





### Our top 5 stocks and market cap

Stock Code	Shares on issue* (millions)	Share Price** (at 31 July)	Market Cap*** \$ billion
BHP	5,062	\$38.68	\$196
CBA	1,702	\$100.77	\$171
CSL	482	\$289.84	\$140
NAB	3,175	\$30.60	\$97
WBC	3,501	\$21.51	\$75

Notes:

- \* Shares on issue in millions, rounded to the nearest million.
- \*\* Share Price and other data here as at 31 July 2022.
- \*\*\* Market Cap in billions, rounded to the nearest \$ billion, as at 31 July 2022.



#### Top stocks and market cap

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### Market capitalisation can change

Remember that the *market capitalisation* of any listed company can change daily.

Formula:

### (number of shares) \* (today's share price)

"Mister Market" has control over this!!

"Number of shares": refers to "common shares", or "outstanding shares".





### About market cap

Exactly what is "market cap"?

- A measure of what a company is worth on the open market, as if you were to buy the entire company;
- 2. It reflects the market's perception of its worth today, plus its "future prospects".



14



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#### Top stocks and market cap

### What about smaller stocks/securities?

Stock Code	Shares on issue* (millions)	Share Price**	Market Cap*** \$ million
BAS	240	3.7 cents	\$8.903
OEQ	15	23 cents	\$3.599
HXL	160	1.2 cents	\$1.917
IBUY	0.115	\$8.54	\$0.982
UUV	121	0.2 cents	\$0.242

#### Notes:

- \* Shares on issue in millions, rounded to the nearest million.
- \*\* Share Price and other data here as at 31 July 2022.
- \*\*\* Market Cap in millions, rounded to the nearest \$ million.





### Reflect for a moment

Stock Code	Shares on issue* (millions)	Share Price** (at 31 July)	Market Cap*** \$ million
BHP	5,062	\$38.68	\$195,811
CBA	<b>CBA</b> 1,702		\$171,464
BAS	240	\$0.037	\$9
HXL	160	\$0.012	\$2

#### Consider and compare above:

- · Shares on issue;
- Share price;
- Market cap could you afford to buy all, or part, of the company?

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#### Top stocks and market cap

### All ASX securities sorted by market cap

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Ref	Symbol	Name	Market Cap/ 1000000	Ref	Symbol Name	Market Cap/ 1000000
1	BHP	BHP Group Limited	195810.7	2367	EN1 Engage:BDR Limited	1.2
2	CBA	Commonwealth Bank Of Australia.	171464.0	2368	EN1DA Engage:BDR Limited Deferred Sett	1.2
3	CSL	CSL Limited	139617.7	2369	YTMSG3 Equity Trustees XTB SG3 3.30% M	1.2
4	NAB	National Australia Bank Limited	97242.2	2370	QUE Queste Communications Limited	1.2
5	WBC	Westpac Banking Corporation	75309.3	2371	YTMSG2 Equity Trustees XTB SG2 4.50% N	1.2
6	MQG	Macquarie Group Limited	70002.5	2372	GLOB BH Global Share TMF Units	1.1
7	ANZ	ANZ Banking Grp Ltd	66243.1	2373	YTMAP1 Equity Trustees XTB Ap1 3.75% Oc	1.0
8	WDS	Woodside Energy Group Ltd	60722.0	2374		1.0
9	FMG	Fortescue Metals Group Ltd	56468.2	2375	CTV Colorty Limited	0.9
10	WES	Wesfarmers Limited	52871.0	2376		0.6
11	WOW	Woolworths Group Limited	45545.6	2377		0.6
12	TLS	Telstra Corporation Limited.	44946.7	2378	,	0.6
13	TCL	Transurban Group Fpo/Units Staple		2379		0.5
14	GMG	Goodman Group Fpo/Units Stapled		2380	1 35	
15	RIO	RIO Tinto Limited	36316.1	2381	YTMVCXEquity Trustees XTB VCX 3.50% A	
_16_	WPL	Woodside Petroleum Ltd	28525.6	2382		0.4
17	COL	Coles Group Limited.	25055.4	2383		0.2
18	STO	Santos Limited	24494.8	2384	•	
19	ALL	Aristocrat Leisure Limited	23529.5	2385		
20	S32	South32 Limited	17634.3	2385	1,3	0.1
21	NCM	Newcrest Mining Limited	17237.3	2300	ENIOCA ENIONE SC PD SC OTIPU	0.0
22	QBE	QBE Insurance Group Limited	17102.0			
23	ASX	ASX Limited	17086.7			
24	REA	REA Group Ltd	16522.6			
25	SHL	Sonic Healthcare Limited	16452.8			
26	WTC	Wisetech Global Limited	16352.0			





Top stocks and market cap

### XTL index = "Top 20"?

For the XTL\* index are these 20 stocks literally the largest 20 stocks in the ASX?

=> Yes, no problem.

#### \* – XTL = S&P/ASX20 aka "Top 20"



• How many? ...





### XJO index = "Top 200"?? – NO!

- The 40 largest stocks are in the XJO;
- From then on, many are missing;
- The last few stocks in the XJO:-

XJO seq	No.	Stock Code	Stock	Market Cap (millions)
195	299	RMS	Ramelius Resources Limited	\$936.8
196	301	CUV	<b>Clinuvel Pharmaceuticals Limited</b>	\$927.4
197	303	SBM	St Barbara Limited	\$917.7
198	314	360	Life360 Inc.	\$840.0
199	321	ZIP	ZIP Co Limited.	\$780.9
200	349	JHG	Janus Henderson Group PLC	\$670.5

#### That is, 149 large-cap stocks missing!

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#### Top stocks and market cap

### The "Top 200" index is NOT the top 200

- You can see that the current list of XJO index constituents are NOT the "top 200" stocks;
- The XJO index constituents are selected from the top 349\* stocks by market cap;
- That is, 149\* stocks (or *securities*?) have been overlooked for inclusion in the XJO.

\* This might change at the next index rebalance.



Top stocks and market cap

### Why is it so?

Why are the 200 stocks in the S&P/ASX 200 XJO index not the same 200 stocks as the top 200 in our market by market cap?





### The index family – p1

- All Ordinaries (XAO) "The index measures the performance of the ... 500 largest securities... no liquidity screen or minimum IWF\* requirement... not weighted by FAMC\* "
- S&P/ASX 20 (XTL) "... 20 actively-traded, highly liquid... by FAMC\* "
- S&P/ASX 50 (XFL) "... 50 of the largest and most liquid index-eligible stocks... by FAMC\* "
- S&P/ASX 100 (XTO) ...the 100 largest stocks... by FAMC\* ... represents both the LargeCap and MidCap components..."
- S&P/ASX 200 (XJO) "... the 200 largest and most liquid stocks... by FAMC."

\* *FAMC* = *Float-adjusted market cap* – Refers to shares that are available for public trading. It excludes: privately held shares, shares that are not available for public trading.

\* IWF = Investable Weight Factor.



About the Indexes

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### The index family – p2

- S&P/ASX 300 (XKO) "... the 300 largest, highly liquid securities... by FAMC\*... includes LargeCap, MidCap and SmallCap..."
- S&P/ASX Small Ordinaries (XSO) "... companies included in the S&P/ASX 300 but not in the S&P/ASX 100"
- S&P/ASX Mid-Small (???) "... companies included in the S&P/ASX 300, but not in the S&P/ASX 50... A combination of MidCap 50 and Small Ords."
- S&P/ASX All Australian 50 (XAF) "... 50 of the largest by floatadjusted market cap, highly-liquid... defined as 'domestic' or 'Australian'..."
- S&P/ASX All Australian 200 (XAT) "... 200 of the largest by floatadjusted market cap, highly-liquid... defined as 'domestic' or 'Australian'..."

Source: "S&P/ASX Australian Indices Methodology", June 2022, pp4-5





### Index eligibility

"All common and equity preferred stocks (which are not of a fixed income nature) are eligible for inclusion in the indices."

#### Not eligible:

- (1) Hybrid stocks such as convertible stock, bonds, warrants, and preferred stock that provide a guaranteed fixed return.
- (2) Listed Investment Companies (LICs) that invest in a portfolio of securities.
- (3) Companies that are currently the target of an acquisition.



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## Market cap eligibility

"The S&P/ASX indices only include securities that are considered to be institutionally investable, and market capitalisation is a key criterion for stock selection, based upon the daily average market capitalisation of a security over the last six months."

Relevant variables for the calculation include:

- ASX stock price history (last six months, adjusted for price-adjusting corporate actions),
- Latest available shares on issue, and
- The Investable Weight Factor (IWF).

Source: "S&P/ASX Australian Indices Methodology", June 2022, p8



27



### Liquidity eligibility

"Only securities that are regularly traded are eligible for inclusion in any S&P/ASX index. A stock's liquidity is measured relative to its peers (using only ASX value traded data)." (ie. it excludes Cboe/Chi-X data).

*Relative Liquidity*\* thresholds are as follows, for example:

**S&P/ASX 200** – *Stocks* require a minimum Relative Liquidity of 50% for inclusion in the S&P/ASX 200 and higher hierarchical indices. Any stock's Relative Liquidity that drops below half of the 50% threshold becomes ineligible and is removed at the next rebalancing.

\* - Calculation formula is in the reference document. Source: "S&P/ASX Australian Indices Methodology", June 2022, p8.



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## IWF eligibility

Companies in the S&P/ASX indices are assigned an *Investable Weight Factor* (IWF). Except for the All Ordinaries index, a company must have a minimum IWF of 0.3 to be eligible for index inclusion.

More information about IWF is in other S&P Dow Jones Indices documents.





About the Indexes

### Index eligibility – Summary

The index methodology rules mean that some companies do not qualify to be included in a particular index.

So, when we talk about the "top 200" stocks, we are not actually referring to the 200 largest "stocks" in our ASX market.



About the Indexes

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### Subtle difference

Throughout the S&P/ASX rules there is a distinction between: *stocks* and *securities*.

Stocks ~ companies with shares Securities ~ stocks, bonds, ETFs, currencies, etc.







# But does this matter to you?





#### Is this important?

### Which securities are omitted?

#### Here are some of them:

REF	CODE	NAME	Mkt Cap	REF	CODE	NAME	Mkt Cap
41	VAS	VNGD Aus Shares Etf Units	10,380	268	VUL	Vulcan Energy Resources Limited	1,118
46	AFI	Australian Foundat.	9,839	270	COF	Centuria Office Reit Ordinary Units	1,114
55	CWN	Crown Resorts Limited	8,864	274	PNV	Polynovo Limited	1,085
59	SPK	Spark New Zealand Limited	8,497	280	GMA	Genworth Mortgage	1,061
76	ARG	Argo Investments Limited	7,021	281	TGR	Tassal Group Limited	1,057
80	YAL	Yancoal Australia Limited	6,602	286	KAR	Karoon Energy Ltd	1,038
96	IVV	Ishares S&P 500 Etf Etf Units	5,048	291	MND	Monadelphous Group Limited	987
153	PXA	Pexa Group Limited	2,582	294	ASB	Austal Limited	970
178	A200	Betaaustralia200Etf Etf Units	2,171	305	GEM	G8 Education Limited	903
184	WAM	WAM Capital Limited	2,007	310	ABB	Aussie Broadband Limited	863
193	DDR	Dicker Data Limited	1,948	312	VGI	VGI Partners Limited	846
203	AIZ	Air New Zealand Limited	1,836	321	NCK	Nick Scali Limited	781
213	MXT	Metrics Master Ordinary Units	1,742	324	SWM	Seven West Media Limited	755
217	LFS	Latitude Group Holdings Limited	1,693	325	OML	Ooh!Media Limited	748
229	RBD	Restaurant Brands New Zealand Li	1,547	331	PPM	Pepper Money Limited	719
236	JDO	Judo Capital Holdings Limited	1,459	337	URW	Unibail-Rodamco-Westfield	704
238	MAQ	Macquarie Telecom Group Limited	1,455	341	NEA	Nearmap Ltd	695
263	VSL	Vulcan Steel Limited	1,156	345	IFRA	Vaneck Infrastruct Etf Units	684

#### WHY are these securities omitted?



Is this important?

### Omitted securities

The S&P/ASX rules for inclusion:

- Excludes ETFs
- Excludes hybrids
- Excludes listed investment companies.

Remember that the S&P/ASX reference document defines the XJO index as:

"... the 200 largest and most liquid stocks..."



Is this important?

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### Should this affect your trading?

#### For many traders, is there a reason to exclude these missing "securities" (ie. ETFs, etc) from your Stock Universe??

If your stock universe is the XJO index, then you might be missing out on some fabulous opportunities!





### Stocks in our indexes

We've looked at:

- Top 5 stocks on the ASX and their market cap;
- List of "stocks by market cap";
- Top 200 index (XJO) is not the "top 200"!
- "S&P/ASX Indices Methodology" document so we can understand why it is so.
- Does this matter to you as a trader/investor?





Summary & Wrap up

THE END — Thank you

These slides prepared by: Robert Brain Brainy's Share Market Toolbox www.robertbrain.com

All of Robert's charts prepared with: BullCharts software <u>www.bullcharts.com.au</u>

Summary & Wrap up

### Don't forget my Toolbox

- Brainy's Share Market Toolbox
  - www.robertbrain.com
  - Loads of eBook (PDF) Articles
  - Info: share market, charting, BullCharts
  - Weekly Market Updates and Watch List
  - monthly e-Newsletter topics
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