If you were to choose a word to describe *short-term* returns among components of international markets, "noisy" might fit the bill. This is exactly what we see in **Figure 1**. There's considerable variability year to year between global stock and bond asset class returns.

While we often hear claims of which asset classes should be "in favor" or which may soon meet their demise, the data highlights both the difficulty in predicting short-term winners and how quickly the picture can change.

Take 2022 as an example. Cash — the lowest returning asset class over the last 15 years — was the top-performing asset class over the year, besting U.S. large-cap growth stocks by more than 30%. U.S. large growth stocks were the worst-performing asset class over the year after topping the charts in two of the prior three years.

With the benefit of hindsight, it's easy to say that cash did well relative to stocks and bonds over a period of rising interest rates and heightened uncertainty. But on the first day of 2022, did you think this would be the result? Even if this had been your view, to achieve returns like those in **Figure 1** would have required the conviction to buy and hold this investment throughout the entire year — no easy task.

The upside for those who invest over the long term in broadly diversified portfolios that spread investments among global asset classes is that total portfolio returns become less reliant on any single component, thereby reducing "idiosyncratic" (i.e., diversifiable) risk.

By holding a classic mix of 60% global equities and real estate and 40% global bonds, for example, you can have confidence that your portfolio will neither have the highest nor the lowest return compared to the market's components. That's the beauty of diversification, which we believe should be a foundational principle of building sound asset allocations.

Figure 1	Asset	Class Re	eturns (%	s) Ranke	d From I	Highest :	to Lowe	st (2008	-2022)									
2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022		FULL PERIOD	BEST YEAR	WORST YEAR
US Gov'tBonds	Emerging Markets	US Small Growth	US Gov'tBonds	Global Real Estate	US Small Growth	Global Real Estate	US Large Growth	US Small Value	Emerging Markets	Cash/Treasury Bills	US Large Growth	US Large Growth	Global Real Estate	Cash/Treasury Bills	US Large	10.32	38.49	-38.44
12.39	82.36	29.09	9.02	22.38	43.30	21.54	5.67	31.74	36.83	1.83	36.39	38.49	31.38	1.52	Growth			
Global Bonds	Int'l Small Value	US Small Value	US Credit Bonds	Int'l Small Value	US Small Value	S&P 500	S&P 500	US Large Value	US Large Growth	US Gov'tBonds	S&P 500	US Small Growth	S&P 500	Int'l Large Value	S&P 500	8.80	32.39	-37.00
4.79	52.55	24.50	8.35	19.51	34.52	13.69	1.38	17.34	30.21	0.88	31.49	34.63	28.71	-5.64				
Cash/Treasury Bills	US Large Growth	Global Real Estate	Global Bonds	Emerging Markets	US Large Growth	US Large Value	Int'l Small Value	S&P 500	Int'l Small Value	Global Bonds	US Small Growth	S&P 500		US Large Value	US Small	7.26	43.30	-38.54
1.77	37.21	22.09	5.64	18.68	33.48	13.45	1.06	11.96	27.93	-1.20	28.48	18.40	28.27	-7.54	Growth			
US Credit Bonds	Int'l Large Value	Int'l Small Value	US Large Growth	US Small Value	Ŭ	Grown	US Gov'tBonds	US Small Growth	Int'l Large	US Large Growth	US Large Value	Emerging Markets	US Large Growth	US Gov't Bonds	US Large Value	6.96	32.53	-36.85
-3.08	36.75 US Small	20.66	2.64	18.05	32.53	13.05 US Credit	0.86	11.32	24.21 US Small	-1.51 US Credit	26.54 Global Real	18.39 US Credit	27.60	-12.32 Int'l Small				
US Small Value	Growth	Emerging Markets	S&P 500	US Large Value		Bonds	Cash/Treasury Bills	Emerging Markets	Growth	Bonds	Estate	Bonds	US Large Value	Value	US Small Value	6.81	34.52	-28.92
-28.92	34.47	19.90	2.11	17.51	32.39	7.53 US Small	0.03	9.90	22.17	-2.11	23.12	9.35	25.16	-14.00				
US Large Value	Int'l Large	US Large Growth	Global Real Estate	Int'l Large Value	Int'l Small Value	Growth	Global Real Estate	Int'l Small Value	S&P 500	S&P 500	Int'l Small Value	Global Bonds	Int'l Small Value	Int'l Large	US Credit	3.73	16.04	-15.26
-36.85	33.67	16.71	0.61	17.29	27.73	5.60	-0.44	7.87	21.83	-4.38	22.83	9.20	13.27	-14.29	Bonds			
S&P 500	Global Real Estate	US Large Value	US Large Value	Int'l Large	Int'l Large Value	US Gov'tBonds	US Credit Bonds	Int'l Large Value	Int'l Large Value	Global Real Estate	Int'l Large	US Gov'tBonds	Int'l Large Value	US Small Value	International	3.44	52.55	-45.94
-37.00	31.72	15.51	0.39	16.41	21.47	4.92	-0.77	7.39	21.04	-5.90	22.49	7.94	13.26	-14.48	Small Value			
US Large Growth	S&P 500	S&P 500	Cash/Treasury Bills	S&P 500	Int'l Large	US Small Value	US Small Growth	US Large Growth	US Large Value	eUS Large Value	US Small Value	Int'l Large	Int'l Large	US Credit Bonds	Global Real	3.07	31.72	-45.69
-38.44	26.46	15.06	0.07	16.00	21.02	4.22	-1.38	7.08	13.66	-8.27	22.39	7.59	12.62	-15.26	Estate			
US Small Growth	US Small Value	Int'l Large	US Small Growth	US Large Growth	Global Real Estate	Global Bonds	Int'l Large	Global Real Estate	US Small Value	US Small Growth	Emerging Markets	US Small Value	US Small Growth	Global Bonds	US Government	2.12	12.39	-12.32
-38.54	20.58	8.95	-2.91	15.26	1.73	0.59	-3.04	5.77	7.84	-9.31	17.65	4.63	2.83	-16.25	Bonds		.2.00	.2.02
Int'l Large	US Large Value	US Credit Bonds	US Small Value	US Small Growth	Cash/Treasury Bills	Cash/Treasury Bills	Global Bonds	US Credit Bonds	Global Real Estate	US Small Value	Int'l Large Value	US Large Value	Cash/Treasury Bills	S&P 500	International	1.84	33.67	-43.56
-43.56	19.69	8.47	-5.50	14.59	0.05	0.03	-3.15	5.63	7.41	-12.86	17.02	2.80	0.04	-18.11	Large Cap		00.0.	10.00
Int'l Large Value	US Credit Bonds	Global Bonds	Int'l Large Value	US Credit Bonds	US Credit Bonds	Emerging Markets	US Large Value	Int'l Large	Global Bonds	Int'l Large	US Credit Bonds	Int'l Small Value	Emerging Markets	Emerging Markets	Global Bonds	1.48	9.20	-16.25
-44.29	16.04	5.54	-11.69	9.37	-2.01	-1.79	-3.83	2.75	7.39	-14.09	13.80	2.58	-0.28	-19.83				
Global Real Estate	Global Bonds	US Gov'tBonds	Int'l Large	Global Bonds	Emerging Markets	Int'l Large	US Small Value	Global Bonds	US Credit Bonds	Emerging Markets	Global Bonds	Cash/Treasury Bills	US Credit Bonds	Global Real Estate	International	1.07	36.75	-44.29
-45.69	6.93	5.52	-12.21	4.32	-2.20	-4.32	-7.47	2.09	6.18	-15.05	6.84	0.56	-1.08	-24.36	Large Value	1.01	00.10	11.20
Int'l Small Value	Cash/Treasury Bills	Int'l Large Value	Int'l Small Value	US Gov't Bonds	US Gov't Bonds	Int'l Large Value	Int'l Large Value	US Gov'tBonds	US Gov't Bonds	Int'l Large Value	US Gov'tBonds	Int'l Large Value	US Gov'tBonds	US Small Growth	Emerging	0.86	82.36	-53.78
-45.94	0.16	4.82	-16.81	2.02	-2.60	-5.41	-7.68	1.05	2.30	-15.06	6.83	-3.22	-2.28	-26.36	Markets All Cap	0.00	02.00	-55.76
Emerging Markets	US Gov'tBonds	Cash/Treasury Bills	Emerging Markets	Cash/Treasury Bills	Global Bonds	Int'l Small Value	Emerging Markets	Cash/Treasury Bills	Cash/Treasury Bills	Int'l Small Value	Cash/Treasury Bills	Global Real Estate	Global Bonds	US Large Growth	Cash/Treasury	0.64	2.22	0.03
-53.78	-2.20	0.13	-19.49	0.09	-2.60	-5.87	-13.86	0.28	0.82	-18.38	2.22	-9.09	-4.71	-29.14	Bills	0.01	L.LL	0.00

Data over the 15-year period from 1/1/2008-12/31/2022. Source: Morningstar. Return periods greater than one year are annualized. The corresponding Russell indices represents U.S. size and style asset classes. The corresponding MSCI World ex USA indices represent international equity asset classes. Emerging markets equity is represented by the MSCI EM IMI Index. The corresponding Bloomberg Total Return indices represent bond asset classes. The S&P Global REIT Index represents global real estate. It is not possible to invest directly in an index. Past performance is no quarantee of future results.

To peel back the onion a bit further on asset class returns, a perhaps lesser-known fact is that there's no single, absolute definition of each asset class. As **Figure 2** shows, while high variability exists across asset classes over time, there's also high variability within asset classes when we examine different indexes designed to represent each one.

In **panels A** through **E** of **Figure 2**, we show calendar year returns for each of the last 15 years and annualized returns over the full period for indexes from well-known providers representing various U.S. equity market segments. The results highlight that these different measures of an asset class can yield meaningfully different returns despite labels that might suggest little difference between them.

To demonstrate the variability of returns among indexes within each asset class, we show the difference between the highest and lowest return index in each year and the full period. The largest single-year difference in each asset class ranges from about 9% to nearly 24% (highlighted in black at the bottom of each asset class panel). If you look at the maximum differences over the full 15-year period, the range narrows but is still sizable at about 1.75% to 2.50%

Why are Index Returns within an Asset Class So Variable?

The reality is that splitting the market into pieces requires making decisions about how each component will be defined. These decisions can be subjective and vary from one instance to the next.

For example, how does one define a small cap company? A "value" company? A "growth" company? Different definitions lead to differences in the securities selected, differences in characteristics, and, as shown, differences in returns.

Index holdings are also typically rebalanced (or updated) periodically. In between rebalance dates, company prices and fundamentals are disregarded. Decisions about how often to rebalance an index, such as once a year or quarterly, and on what dates can be arbitrary. Different decisions between index providers can lead to further differences in outcomes.

We believe this highlights the importance of looking beyond a name and understanding *what* you own — another sound principle for designing asset allocations. Building broadly diversified portfolios that harness the potential of global markets is a solid starting point. Still, when it comes to your choices within an allocation, it would be helpful to remember that a name can only tell you so much.

It may let you know you're in the right vicinity but focusing on a more precise location may benefit overall portfolio returns. Taking a closer look before making an allocation can help avoid unexpected results. When investing, we know we will sometimes be disappointed, but we should try to avoid surprises wherever possible.

Figure 2 | What's in a Name?

Panel A - U.S. Large Cap Value Index Returns (%) Ranked from Highest to Lowest (2008-2022)

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	FULL PERIOD
	CRSP	S&P	Wilshire	Wilshire	S&P	CRSP	Russell	Wilshire	Morningstar	CRSP	CRSP	S&P	Wilshire	CRSP	Morningstar	CRSP US Large Cap Value
	-35.30	21.18	16.56	3.74	17.68	33.34	13.45	-0.79	20.01	17.16	-5.40	31.93	7.37	26.51	-0.35	8.20
	MSCI	Russell	CRSP	CRSP	Russell	Russell	CRSP	CRSP	S&P	Wilshire	Wilshire	Wilshire	Russell	MSCI	CRSP	Wilshire US Large Value
	-36.05	19.69	16.06	1.43	17.51	32.53	13.29	-0.86	17.40	16.31	-5.94	27.72	2.80	26.29	-2.01	7.73
	Morningstar	CRSP	Russell	Morningstar	CRSP	S&P	Wilshire	Morningstar	Russell	S&P	Morningstar	Russell	CRSP	Russell	S&P	S&P 500 Value
	-36.06	18.42	15.51	1.35	16.71	31.99	13.00	-2.13	17.34	15.36	-6.90	26.54	2.26	25.16	-5.22	7.06
	Wilshire	Wilshire	Morningstar	MSCI	Wilshire	Morningstar	S&P	MSCI	CRSP	MSCI	MSCI	CRSP	S&P	S&P	Wilshire	Russell 1000 Value
	-36.62	16.98	15.17	0.64	14.56	31.78	12.36	-2.82	16.93	14.42	-7.96	25.85	1.36	24.90	-5.51	6.96
	Russell	MSCI	S&P	Russell	Morningstar	MSCI	MSCI	S&P	MSCI	Morningstar	Russell	Morningstar	MSCI	Wilshire	MSCI	Morningstar US LM Value
	-36.85	16.91	15.10	0.39	14.06	31.22	11.36	-3.13	15.83	14.25	-8.27	25.53	0.05	24.53	-6.96	6.86
	S&P	Morningstar	MSCI	S&P	MSCI	Wilshire	Morningstar	Russell	Wilshire	Russell	S&P	MSCI	Morningstar	Morningstar	Russell	MSCI USA Value
	-39.22	16.39	13.46	-0.48	13.96	30.24	9.37	-3.83	15.44	13.66	-8.95	24.61	-1.65	23.28	-7.54	6.21
MAX - MIN RETURN	3.93	4.78	3.10	4.22	3.72	3.10	4.08	3.04	4.57	3.49	3.55	7.31	9.01	3.24	7.18	1.99

Panel B – U.S. Large Cap Growth Index Returns (%) Ranked from Highest to Lowest (2008-2022)

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	FULL PERIOD
	S&P	Morningstar	Russell	S&P	Morningstar	Wilshire	S&P	Morningstar	Wilshire	Morningstar	Morningstar	MSCI	MSCI	S&P	Russell	Russell 1000 Growth
	-34.92	44.37	16.71	4.65	17.98	34.95	14.89	7.71	8.97	31.15	2.94	37.31	42.74	32.01	-29.14	10.32
	Wilshire	Russell	MSCI	Russell	Wilshire	Russell	Morningstar	Russell	Russell	Russell	S&P	CRSP	CRSP	Wilshire	S&P	S&P 500 Growth
	-37.49	37.21	16.10	2.64	16.90	33.48	14.38	5.67	7.08	30.21	-0.01	37.31	40.27	28.86	-29.41	10.08
	Russell	Wilshire	CRSP	MSCI	MSCI	S&P	Wilshire	S&P	S&P	MSCI	Russell	Russell	Morningstar	Russell	Wilshire	Wilshire US Large Growth
	-38.44	36.88	15.77	1.97	16.73	32.75	13.96	5.52	6.89	28.27	-1.51	36.39	38.86	27.60	-29.54	9.82
	CRSP	MSCI	S&P	Morningstar	Russell	Morningstar	MSCI	MSCI	CRSP	CRSP	MSCI	Wilshire	Russell	CRSP	MSCI	MSCI USA Growth
	-38.67	36.13	15.05	1.56	15.26	32.46	13.95	4.19	6.16	27.86	-2.32	35.79	38.49	27.30	-32.08	9.69
	MSCI	CRSP	Wilshire	CRSP	CRSP	MSCI	CRSP	Wilshire	MSCI	Wilshire	CRSP	Morningstar	Wilshire	MSCI	CRSP	CRSP US Large Cap Growth
	-39.22	35.92	15.02	0.58	15.20	32.27	13.69	3.54	6.07	27.71	-3.34	33.81	35.36	26.08	-33.13	9.16
	Morningstar	S&P	Morningstar	Wilshire	S&P	CRSP	Russell	CRSP	Morningstar	S&P	Wilshire	S&P	S&P	Morningstar	Morningstar	Morningstar US Large Growth
	-41.87	31.57	12.91	-0.66	14.61	31.75	13.05	3.38	1.79	27.44	-3.58	31.13	33.47	21.47	-40.36	8.56
MAX - MIN RETURN	6.95	12.80	3.80	5.31	3.37	3.20	1.84	4.32	7.18	3.71	6.52	6.18	9.28	10.54	11.23	1.76

Figure 2 | What's in a Name? (Continued)

Panel C – U.S. Small Cap Index Returns (%) Ranked from Highest to Lowest (2008-2022)

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	FULL PERIOD
	S&P	Wilshire	Wilshire	S&P	Wilshire	S&P	CRSP	S&P	S&P	MSCI	S&P	CRSP	Russell	S&P	S&P	S&P SmallCap 600
	-31.07	41.79	28.94	1.02	18.76	41.31	7.54	-1.97	26.56	16.75	-8.48	27.35	19.96	26.82	-16.10	8.89
	Russell	CRSP	Morningstar	CRSP	CRSP	Wilshire	MSCI	CRSP	Wilshire	CRSP	CRSP	MSCI	CRSP	Wilshire	MSCI	CRSP US Small Cap
	-33.79	40.11	28.37	-1.85	18.59	39.01	7.07	-3.68	22.41	16.24	-9.33	26.74	19.07	19.17	-17.55	8.64
	Morningstar	MSCI	CRSP	Morningstar	MSCI	Russell	Morningstar	MSCI	Russell	Morningstar	MSCI	Wilshire	MSCI	MSCI	CRSP	MSCI USA Small Cap
	-36.07	39.07	27.98	-2.57	17.52	38.82	6.92	-4.11	21.31	15.03	-10.40	26.21	18.32	19.11	-17.64	8.35
	MSCI	Morningstar	MSCI	Wilshire	Morningstar	CRSP	Wilshire	Russell	Morningstar	Russell	Wilshire	Morningstar	Wilshire	CRSP	Morningstar	Wilshire US Small
	-36.18	37.75	27.48	-3.40	16.49	38.48	6.80	-4.41	20.25	14.65	-10.84	25.96	17.42	17.71	-18.46	8.24
	CRSP	Russell	Russell	MSCI	Russell	Morningstar	S&P	Wilshire	MSCI	Wilshire	Russell	Russell	Morningstar	Morningstar	Wilshire	Morningstar US Small
	-36.81	27.17	26.85	-3.43	16.35	37.91	5.76	-4.86	19.15	13.45	-11.01	25.52	16.41	16.25	-18.65	7.69
	Wilshire	S&P	S&P	Russell	S&P	MSCI	Russell	Morningstar	CRSP	S&P	Morningstar	S&P	S&P	Russell	Russell	Russell 2000
	-37.76	25.57	26.31	-4.18	16.33	37.63	4.89	-4.88	18.26	13.23	-12.11	22.78	11.29	14.82	-20.44	7.16
MAX - MIN																
RETURN	6.69	16.22	2.63	5.19	2.44	3.68	2.65	2.91	8.29	3.52	3.63	4.57	8.67	12.00	4.34	1.73

Panel D - U.S. Small Cap Value Index Returns (%) Ranked from Highest to Lowest (2008-2022)

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	FULL PERIOD
	Russell	Morningstar	CRSP	CRSP	Wilshire	S&P	CRSP	Wilshire	Russell	CRSP	Wilshire	S&P	Wilshire	Morningstar	Morningstar	CRSP US Small Cap Value
	-28.92	40.28	27.18	0.01	21.52	39.98	10.63	-4.36	31.74	11.83	-12.04	24.54	6.16	31.79	-6.60	9.33
	S&P	CRSP	Wilshire	S&P	CRSP	CRSP	Morningstar	CRSP	S&P	S&P	CRSP	Wilshire	CRSP	S&P	CRSP	S&P SmallCap 600 Value
	-29.51	37.81	26.76	-1.38	20.50	38.47	10.03	-4.64	31.32	11.51	-12.27	23.08	5.75	30.95	-9.27	8.43
	Morningstar	Wilshire	Morningstar	Morningstar	Morningstar	Morningstar	Wilshire	MSCI	Morningstar	MSCI	S&P	CRSP	Russell	MSCI	MSCI	Morningstar US Small Value
	-31.67	37.45	25.96	-1.84	18.30	35.71	9.09	-5.89	27.96	8.44	-12.64	22.76	4.63	29.77	-10.33	8.28
	MSCI	MSCI	S&P	MSCI	S&P	Russell	S&P	S&P	Wilshire	Morningstar	Russell	Russell	S&P	Wilshire	S&P	Wilshire US Small Value
	-32.66	29.21	24.72	-4.72	18.21	34.52	7.54	-6.67	27.68	8.40	-12.86	22.39	2.53	29.24	-11.04	8.13
	CRSP	S&P	Russell	Wilshire	Russell	Wilshire	MSCI	Russell	MSCI	Russell	MSCI	MSCI	MSCI	Russell	Wilshire	MSCI US Small Cap Value
	-33.19	22.85	24.50	-5.34	18.05	33.80	6.64	-7.47	26.62	7.84	-13.60	21.27	1.20	28.27	-14.22	6.94
	Wilshire	Russell	MSCI	Russell	MSCI	MSCI	Russell	Morningstar	CRSP	Wilshire	Morningstar	Morningstar	Morningstar	CRSP	Russell	Russell 2000 Value
	-33.92	20.58	24.21	-5.50	17.69	32.73	4.22	-8.65	24.82	7.42	-16.61	19.96	1.01	28.15	-14.48	6.81
MAX - MIN RETURN	5.00	19.70	2.97	5.51	3.82	7.25	6.41	4.28	6.92	4.41	4.57	4.57	5.16	3.64	7.88	2.52

Figure 2 | What's in a Name? (Continued)

Panel E – U.S. Small Cap Growth Index Returns (%) Ranked from Highest to Lowest (2008-2022)

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	FULL PERIOD
	S&P	Wilshire	Morningstar	S&P	MSCI	Wilshire	Russell	S&P	S&P	Morningstar	S&P	CRSP	Morningstar	S&P	S&P	S&P SmallCap 600 Growth
	-32.94	46.40	31.26	3.62	17.24	45.00	5.60	2.78	22.16	23.77	-4.05	32.75	43.52	22.62	-21.08	9.23
	Russell	CRSP	Wilshire	Morningstar	Wilshire	MSCI	MSCI	Morningstar	Wilshire	Russell	Morningstar	Wilshire	MSCI	MSCI	Wilshire	MSCI US Small Cap Growth
	-38.54	41.92	31.08	-1.04	15.69	44.24	4.51	-0.18	16.97	22.17	-5.67	29.49	36.71	11.40	-23.07	8.43
	CRSP	MSCI	MSCI	Wilshire	CRSP	Russell	Wilshire	Russell	MSCI	CRSP	CRSP	MSCI	CRSP	Wilshire	MSCI	Wilshire US Small Growth
	-39.50	41.79	30.58	-1.64	15.39	43.30	4.23	-1.38	13.13	21.90	-5.68	29.29	35.35	10.12	-26.26	8.28
	Morningstar	Russell	CRSP	MSCI	Russell	S&P	CRSP	CRSP	Russell	MSCI	MSCI	Russell	Russell	CRSP	Russell	CRSP US Small Cap Growth
	-39.92	34.47	29.43	-1.64	14.59	42.69	3.98	-2.60	11.32	21.22	-9.18	28.48	34.63	5.71	-26.36	7.63
	MSCI	Morningstar	Russell	Russell	S&P	Morningstar	S&P	MSCI	CRSP	Wilshire	Russell	Morningstar	Wilshire	Russell	CRSP	Russell 2000 Growth
	-40.17	32.98	29.09	-2.91	14.56	41.86	3.87	-3.24	10.62	19.55	-9.31	27.60	29.66	2.83	-28.44	7.26
	Wilshire	S&P	S&P	CRSP	Morningstar	CRSP	Morningstar	Wilshire	Morningstar	S&P	Wilshire	S&P	S&P	Morningstar	Morningstar	Morningstar US Small Growth
	-41.26	28.35	27.99	-3.08	14.50	38.44	2.46	-5.28	9.61	14.79	-9.71	21.13	19.60	-1.00	-33.31	6.76
MAX - MIN RETURN	8.31	18.05	3.27	6.70	2.74	6.56	3.15	8.06	12.55	8.98	5.65	11.62	23.92	23.62	12.23	2.47