ETF GUIDEBOOK: WHAT YOU NEED TO KNOW ABOUT ETFs AND WHY
Agenda

What is an ETF?

What are the potential benefits of ETFs?

How to evaluate an ETF?
What is an ETF?
What is an ETF?

ETFs are low-cost, diversified tools that can provide investors with exposure to various asset classes

Stock
Tradable during the day

ETFs
Diversified funds that trade like stocks

Mutual fund
Diversified

Like a stock, an ETF can be bought and sold whenever the market is open

Like a mutual fund, an ETF is a professionally managed, diversified portfolio

Transactions in shares of ETFs may result in brokerage commissions and will generate tax consequences. For more information on the differences between ETFs and Mutual funds, please see the end of this presentation.
What is an index?

An index’s methodology is like a recipe

- What securities should be included?
- What securities should be excluded?
- How much of each security should we add?
### Well-known, and not-so well-known indexes

#### Indexes you may know...

<table>
<thead>
<tr>
<th>Index</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>S&amp;P 500</td>
<td>U.S. large cap stocks</td>
</tr>
<tr>
<td>IVV</td>
<td>Exp ratio: 0.03%</td>
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<td>Russell 2000</td>
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<td>Exp ratio: 0.19%</td>
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<tr>
<td>iShares Core</td>
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<tr>
<td>IEFA</td>
<td>Exp ratio: 0.07%</td>
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<td>Bloomberg U.S.</td>
<td>Developed market stocks</td>
</tr>
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<td>Universal Index</td>
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<td>IEFA ETF</td>
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</tr>
<tr>
<td>IUSB</td>
<td>Exp ratio: 0.07%/0.06%* (gross/net)</td>
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<td>iShares Core</td>
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<tr>
<td>Total USD Bond</td>
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<td>Market ETF</td>
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<td>IUSB ETF</td>
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#### Indexes you might not...

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For illustrative purposes only. *BlackRock Fund Advisors, the investment adviser to the Funds and an affiliate of BlackRock Investments, LLC, has contractually agreed to waive a portion of its management fees through the following dates: IUSB: 02/29/2024.
What are the potential benefits of ETFs?
The benefits of ETFs

**DIVERSIFICATION**
ETFs can hold hundreds of securities within a single fund to help diversify your portfolio.

**LOW COST**
ETFs can keep fees lower than other diversified strategies because they seek to track indexes, helping to reduce costs.

**TAX EFFICIENT**
Because of their strategy and structure, ETFs can generally help reduce tax consequences as compared to mutual funds.

Transactions in shares of ETFs may result in brokerage commissions and may generate tax consequences. All regulated investment companies are obliged to distribute portfolio gains to shareholders. For more information on the differences between traditional mutual funds and ETFs, see the end of this document.
Diversification: Help minimize investment risk

The U.S. stock market has risen 51% over the last 5 years\(^1\)

**Individual U.S. stocks**\(^2\)
- 55% made money
- 45% lost money

**U.S. mutual funds and ETFs**\(^3\)
- 99% made money
- 1% lost money

Among stocks that fell, the average loss was 53%\(^4\)

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1. Source: Morningstar as of 12/31/2022. U.S. stock market represented by the S&P US Total Market Index using cumulative total return which assumes the reinvestment of dividends. 2. Source: Morningstar as of 12/31/2022. Individual U.S. Stocks are all stocks in the S&P US Total Market Index using cumulative total return which assumes the reinvestment of dividends. Analysis does not include obsolete stocks as defined by Morningstar. 3. Source: Morningstar as of 12/31/2022. U.S. Mutual Funds and ETFs are all funds in the Morningstar US Equity Category, oldest share class only. 4. Source: Morningstar as of 12/31/2022. Stocks represented by the S&P US Total Market Index. Analysis does not include obsolete mutual funds or ETFs as defined by Morningstar. Past performance does not guarantee or indicate future results. Index performance is shown for illustrative purposes only. You cannot invest directly in an index.
Keeping costs low may be one way to pursue your goals

### Average net expense ratio by asset class

<table>
<thead>
<tr>
<th>Asset Class</th>
<th>ETFs</th>
<th>Active Mutual Funds</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total universe</td>
<td>0.57%</td>
<td>1.01%</td>
</tr>
<tr>
<td>Fixed-income (bonds)</td>
<td>0.36%</td>
<td>0.83%</td>
</tr>
<tr>
<td>Equities (stocks)</td>
<td>0.50%</td>
<td>1.13%</td>
</tr>
<tr>
<td>Commodities (gold, oil, etc.)</td>
<td>0.64%</td>
<td>1.19%</td>
</tr>
</tbody>
</table>

Source: Morningstar (as of 03/31/2023). Subject to change. Net expense calculated using prospectus net expense ratio data, as reported by Morningstar. 1 Exchange-traded fund (ETF) universe is sized by Morningstar and includes all primary shares classes of U.S. domiciled ETF funds. Category breakdowns, such as equities, fixed-income, and commodities, are based on Morningstar’s global broad category groups. “Total universe” contains all the underlying products across Morningstar’s global broad category groups that meet the abovementioned qualifications. 2 Mutual fund universe is sized by Morningstar and includes all U.S. domiciled mutual funds, excluding index funds. Category breakdowns, such as equities, fixed-income, and commodities, are based on Morningstar’s global broad category groups. “Total universe” contains all the underlying products across Morningstar’s global broad category groups that meet the abovementioned qualifications.
Tax efficiency: Helping you keep more of what you earn

ETFs' relative tax efficiency...

Percent of funds that distributed capital gains over the last 10 years*

<table>
<thead>
<tr>
<th>Mutual Funds</th>
<th>ETFs</th>
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</thead>
<tbody>
<tr>
<td>57%</td>
<td>8.3%</td>
</tr>
</tbody>
</table>

...potentially makes them well-suited for taxable accounts

Retirement account (IRA, 401k, etc.)
Less tax efficient asset classes

Active funds
Individual bonds
Individual stocks
ETFs

Taxable account
More tax efficient asset classes

For illustrative purposes only. * Source: Morningstar as of 12/31/2022. Average number of mutual funds that paid a capital gain distribution each year over 10 years compared to exchange traded fund. Universe includes all funds incepted before 10/31 in each year and excludes funds that closed before 10/31 in each year. Universe of mutual funds includes all U.S. open ended mutual funds, oldest share class used. Past distributions are not indicative of future distributions. Due to fund structure, mutual fund holders may be subject to taxable capital gains distributions due to other investors' redemptions directly to the mutual fund. Taxable capital gain distributions can occur to ETF investors based on stocks trading within the fund as the ETF creates and redeems shares and rebalances its holdings. ETFs and stocks may also generate taxable capital gains when an investor sells their own shares. Certain traditional mutual funds can also be tax efficient.
How to evaluate an ETF?
Some considerations that may help you evaluate ETFs

1. INVESTMENT OBJECTIVE
   What goals are you looking to accomplish?

2. ETF EXPOSURE
   What are the fund’s holdings?

3. COSTS
   How much are you paying in total?

Did you know?
While an ETF’s past performance provides insight into a fund’s track record, it does not guarantee the fund’s future results.
What do you hope to achieve with your investments?

**Investment spectrum**

- **Stocks**
  - Higher risk & higher potential return

- **Bonds**
  - Lower risk & lower potential return

- **Cash**

**Balancing risk and reward**

- **Cash/Savings**: 3.3% risk, 1.1 years out of 10 lost money
- **U.S. bonds**: 5.0% risk, 2.7 years out of 10 lost money
- **U.S. stocks**: 10.5% risk, 14/23

Source: Morningstar, BlackRock. Stocks are represented by the S&P 500 index from 3/4/57 to 12/31/22 and the IA SBBIB U.S. large stock index from 1/1/26 and 3/4/57. U.S. bonds are represented by the Bloomberg U.S. Agg Bond TR index from 1/3/89 to 12/31/22 and the IA SBBIB U.S. Gov IT index from 1/1/26 to 1/3/89. Cash/Savings are represented by the IA SBBIB US 30 Day TBill TR Index from 1/1/26 to 12/31/22. *Past performance does not guarantee or indicate future results.* Index performance is for illustrative purposes only. You cannot invest directly in an index.
Exposure: What’s inside the fund?

Key attributes to consider

For stock ETFs:

- Size
  (large cap, mid cap, small cap)
- Sector
- Country exposure

For bond ETFs:

- Credit quality
  (investment grade, high yield)
- Issuer type
  (Government, corporate, etc.)
- Average maturity
  (interest rate sensitivity)

Did you know?
IVV, IJH, and IJR have 0% overlap
Putting your plan into action

Hypothetical ways for an investor seeking moderate growth

<table>
<thead>
<tr>
<th></th>
<th>DIY</th>
<th>All-in-one</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stocks</td>
<td>ITOT</td>
<td>AOR*</td>
</tr>
<tr>
<td>Bonds</td>
<td>IUSB*</td>
<td></td>
</tr>
</tbody>
</table>

Key:
- **Stocks**
- **Bonds**

For illustrative purposes only. *BlackRock Fund Advisors, the investment adviser to the Funds and an affiliate of BlackRock Investments, LLC, has contractually agreed to waive a portion of its management fees through the following dates: IUSB: 02/29/2024; AOR: 11/30/2026.

Reach out to a representative at your local Fidelity branch.
In summary

The potential benefits of ETFs

- Diversification
- Low cost
- Tax efficiency

ETF evaluation

- Your objectives
- ETF exposure
- Total costs

Examples of ETFs

- **IVV**
  - Exp ratio: 0.03%
  - iShares Core S&P 500 ETF

- **IUSB**
  - Exp ratio: 0.07%/0.06%* (gross/net)
  - iShares Core Total USD Bond Market ETF

- **AOR**
  - Exp ratio: 0.47%
  - iShares Core Growth Allocation ETF

*BlackRock Fund Advisors, the investment adviser to the Funds and an affiliate of BlackRock Investments, LLC, has contractually agreed to waive a portion of its management fees through the following dates: IUSB: 06/30/2026. Gross expense ratio is 0.07%.
APPENDIX
ETFs and traditional mutual funds: Know the differences

<table>
<thead>
<tr>
<th>Criteria</th>
<th>Mutual funds</th>
<th>ETFs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Management</td>
<td>Active</td>
<td>Passive</td>
</tr>
<tr>
<td>Performance goal</td>
<td>Outperform a benchmark and/or deliver an outcome</td>
<td>Track a benchmark</td>
</tr>
<tr>
<td>Buying / selling shares</td>
<td>Once per day via fund company</td>
<td>Intraday on exchanges</td>
</tr>
<tr>
<td>Price to buy / sell</td>
<td>End-of-day NAV, less fees</td>
<td>Current market price, which may differ from NAV</td>
</tr>
<tr>
<td>Fees</td>
<td>Expense ratio + any sales loads / redemption fees</td>
<td>Expense ratio + transaction / brokerage costs</td>
</tr>
<tr>
<td>Tax impact of buyers /</td>
<td>Shareholders may be impacted by all other shareholders' actions</td>
<td>Shareholders only impacted by their own action</td>
</tr>
<tr>
<td>sellers</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Holdings disclosure</td>
<td>Typically quarterly</td>
<td>Daily</td>
</tr>
<tr>
<td>Benefits</td>
<td>• Opportunity to outperform the index</td>
<td>• Exposure to market index</td>
</tr>
<tr>
<td></td>
<td>• Potential to limiting the downside</td>
<td>• Generally lower fees</td>
</tr>
<tr>
<td></td>
<td>• Buy/sell decisions based on research</td>
<td>• Typically more tax-efficient</td>
</tr>
<tr>
<td>Trade-offs</td>
<td>• Potential to underperform index</td>
<td>• Does not seek to outperform index</td>
</tr>
<tr>
<td></td>
<td>• Generally higher fees</td>
<td>• Participate in all of index downside</td>
</tr>
<tr>
<td></td>
<td>• Typically less tax-efficient</td>
<td>• Buy/sell decisions based on index, not research</td>
</tr>
</tbody>
</table>
ETF FAQs

1. What is an ETF?
ETF stands for exchange-traded fund and it is an investment product that combines the benefits of mutual funds and individual stocks. An ETF is similar to a mutual fund in that it can be a basket of hundreds, sometimes thousands, of stocks, bonds, and other types of assets. But unlike a mutual fund and similar to individual stocks, an ETF can be bought or sold during any point during the trading day.

2. What types of ETFs are available and how do they differ?
Broadly, ETFs can be categorized according to their investment strategy, which can be index-tracking, meaning the ETF is looking to replicate the performance of some financial benchmark, such as the S&P 500, or active, meaning the ETF is looking to outperform an index.

ETFs can also differ by the asset classes they offer exposure to. There are ETFs, for instance, that offer exposure to stocks, bonds, real estate, and commodities (and sometimes all of these assets in one fund).

3. How much does it cost to invest in an ETF?
At Fidelity, you can buy or sell ETFs for no fee.

An ETF's internal cost is represented by what is called an expense ratio, which is typically shown as a percentage. For instance, the expense ratio of the iShares Core S&P 500 ETF (IVV) is 0.03%, which means that for every $100 invested in the ETF, your cost would be $0.03.

4. Do ETFs distribute dividends?
Yes, ETFs may distribute dividends generated from the assets that the ETF is invested in. There are even ETFs that focus on providing precise exposure to income-generating assets, such as dividend-paying stocks and bonds.

5. Can you hold ETFs in retirement accounts?
Yes. ETFs can be held in traditional brokerage accounts and retirement accounts, including Traditional and Roth IRAs.
Important notes

Carefully consider the iShares Funds’ investment objectives, risk factors, and charges and expenses before investing. This and other information can be found in the Funds' prospectuses or, if available, the summary prospectuses which may be obtained by visiting www.ishares.com or www.blackrock.com. Read the prospectus carefully before investing.

Investing involves risk, including possible loss of principal.

Fixed income risks include interest-rate and credit risk. Typically, when interest rates rise, there is a corresponding decline in bond values. Credit risk refers to the possibility that the bond issuer will not be able to make principal and interest payments.

Diversification and asset allocation may not protect against market risk or loss of principal.

International investing involves risks, including risks related to foreign currency, limited liquidity, less government regulation and the possibility of substantial volatility due to adverse political, economic or other developments. These risks often are heightened for investments in emerging/developing markets and in concentrations of single countries.

Transactions in shares of ETFs will result in brokerage commissions and will generate tax consequences. All regulated investment companies are obliged to distribute portfolio gains to shareholders. There can be no assurance that an active trading market for shares of an ETF will develop or be maintained.

Certain traditional mutual funds can also be tax efficient.

An investment in the Fund is not insured or guaranteed by the Federal Deposit Insurance Corporation or any other government agency and its return and yield will fluctuate with market conditions.

An investment in fixed income funds is not equivalent to and involves risks not associated with an investment in cash.

There is no guarantee that any fund will pay dividends.
Important notes continued

Funds that concentrate investments in specific industries, sectors, markets or asset classes may underperform or be more volatile than other industries, sectors, markets or asset classes and than the general securities market.

Actively managed funds do not seek to replicate the performance of a specified index. Actively managed funds may have higher portfolio turnover than index funds.

Investment in a fund of funds is subject to the risks and expenses of the underlying funds.

The strategies discussed are strictly for illustrative and educational purposes and are not a recommendation, offer or solicitation to buy or sell any securities or to adopt any investment strategy. There is no guarantee that any strategies discussed will be effective.

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