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# Portfolio Analysis using Morningstar Portfolio X-Ray Library Edition

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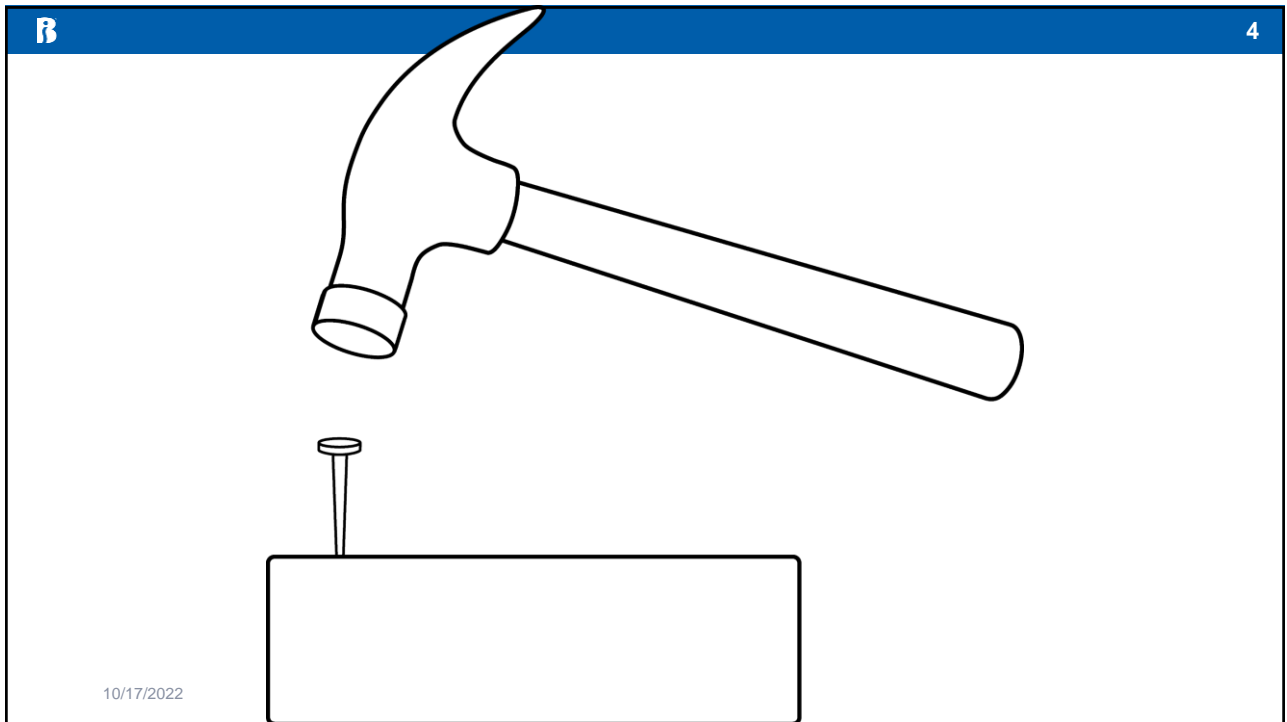
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## Morningstar Portfolio X-ray

What is Portfolio X-Ray?

- Portfolio X-Ray is a sophisticated analytical tool that allows you to dissect your portfolio and gain a clear view of your holdings using Morningstar methodology.

Where is it found?

- Available through the library edition of Morningstar or via a premium subscription.

What is the difference of the two versions?

- The library version **does not** allow you to save your portfolio; the premium subscription does.

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## Morningstar Portfolio X-Ray

Why would you use Morningstar Portfolio X-Ray?

- Takes an individual portfolio and provides an analysis using Morningstar methodology.
- A portfolio can consist of stocks, bonds, mutual funds, and ETF's in the Portfolio X-Ray tool.
- Allows the ability to "combine" different portfolios into a single portfolio to look at a total of your holdings

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## Morningstar Portfolio X-Ray

Results include:

- Analysis by Asset Allocation: Morningstar equity style box; Morningstar fixed income style box
- Stock Analysis: stock sectors, world regions
- Performance: backward looking activity graph for seven years; trailing returns for 3-10 years; best and worst time periods (3 months, 1- and 3-year periods)
- Stock Intersection: If portfolio has mutual funds or ETF's, this feature breaks down the holdings in each mutual fund/ETF and lists by equity the total percentage of that equity and the percentage held by each mutual fund/ETF

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## Morningstar Portfolio X-Ray

Results include:

- A one-page report of each equity, mutual fund, or ETF held in the portfolio.

**NOTE:** The mutual fund report provided in the X-Ray is slightly different from the one provided in the main section. The report in the X-Ray clearly displays the expenses and loads charged by each mutual fund/ETF.

- Report can be saved as a PDF and printed.
- Report can include disclosure information from Morningstar describing the methodology used to generate the report.

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## Morningstar Portfolio X-Ray

Process:

- Enter portfolio holdings by one of three methods: Amount (by value), Weight (by percentage) or by Units (shares). Cannot combine methods.
- Select benchmark  
Choices of benchmarks are limited to Morningstar benchmarks.  
If no benchmark is selected, the default benchmark is the S&P 500 TR USD.
- Click on Generate Report – Allows you to select what is included in the report and creates a downloadable copy

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## Morningstar Portfolio X-Ray

Some ideas on how to use the tool

- Club or personal portfolio
- Use as way to compare two or more mutual funds or ETFs
- Use to create a hypothetical portfolio
- Use to combine holdings of multiple portfolios to see where there is duplication or overlap.

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## Morningstar Portfolio X-Ray

### Example 1

- Create portfolio with five mutual funds from five different fund families with equal weighting to each fund. (2/22/22)
- Of the 25 largest funds, selected the highest 3-year return for each investment objective, with no fund family duplicate

- PTTRX – Pimco Total Return Institutional (Core Plus Bond)
- FCNTX – Fidelity Contrafund (Large cap growth)
- DODGX – Dodge & Cox Stock (Multi cap value)
- VDIGX – Vanguard Dividend Growth Investor Series (Equity Income)
- RERGX – American Funds Euro Pacific R6 (International Lrg Gro)

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## Morningstar Portfolio X-Ray

### Rocky Mountain Chapter Model Investment Club portfolio, 10/10/22

Portfolio	Symbol	Type	Shares
<a href="#">DAR</a>	<a href="#">DAR</a>	<a href="#">Common Stock</a>	15
<a href="#">EW</a>	<a href="#">EW</a>	<a href="#">Common Stock</a>	18
<a href="#">FOXF</a>	<a href="#">FOXF</a>	<a href="#">Common Stock</a>	24
<a href="#">GRBK</a>	<a href="#">GRBK</a>	<a href="#">Common Stock</a>	104
<a href="#">MKSI</a>	<a href="#">MKSI</a>	<a href="#">Common Stock</a>	20
<a href="#">MNST</a>	<a href="#">MNST</a>	<a href="#">Common Stock</a>	11
<a href="#">PLUS</a>	<a href="#">PLUS</a>	<a href="#">Common Stock</a>	49
<a href="#">SWKS</a>	<a href="#">SWKS</a>	<a href="#">Common Stock</a>	8
<a href="#">WAL</a>	<a href="#">WAL</a>	<a href="#">Common Stock</a>	30

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\* Source: Myclub, 10/10/2022

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## Morningstar Portfolio X-Ray

### Example 2

- Create a portfolio with five mutual funds from five different fund families with equal weighting to each fund. (2/22/22)
- Of the 25 largest funds, selected the highest 3-year return for each fund family.

• AGTHX - American Funds Growth A	(Large cap growth)
• FCNTX – Fidelity Contrafund	(Large cap growth)
• DODGX – Dodge & Cox Stock	(Multi cap value)
• VDIGX – Vanguard Dividend Growth Investor Series	(Equity Income)
• TRBCX – T Rowe Price Blue Chip Growth	(Large cap growth)

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The screenshot shows the Morningstar Investment Research Center navigation menu. The 'Funds' tab is selected, indicated by a blue arrow. Below it, the 'Portfolio X-ray' link is highlighted with a blue arrow. A descriptive line reads: 'Portfolio X-Ray is a sophisticated analytical tool that allows you to dissect your portfolio and gain a clear view of your holdings.' Below this, the 'Portfolio X-Ray' section is shown with a blue arrow pointing to the 'View Holdings & Benchmark' link.

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## Questions and Comments?

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## Morningstar Portfolio X-Ray

Sources used in this presentation

- Barron's magazine, with fund data provided by Lipppers
- Denver Public Library
- Morningstar Library Edition
- My IClub

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