

# About the Author



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# Debt Securities

Debt securities represent creditor relationships with entities and are important financial instruments for investors and corporations. Understanding their classification, valuation, and reporting is essential for accurate financial statement preparation.

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# What Are Debt Securities?

## Definition

A debt security represents any security that establishes a creditor relationship with an entity. The holder of a debt security is essentially a lender to the issuing entity.

## Common Types

- Corporate bonds
- Government securities
- Convertible debt instruments
- Commercial paper
- Redeemable preferred stock

# Key Debt Security Examples

## Corporate Bonds

Issued by companies like Apple Inc. to finance business operations, capital expenditures, or acquisitions. Examples include specific issues like "Apple Inc. 2.8% Notes due 2061" and "Microsoft Corporation 3.7% Notes due 2046". Investors receive regular interest payments and the principal back at maturity.

## Government Securities

Examples include US Treasury Bonds, Notes, and Bills, such as the "US Treasury 10-Year Note", "30-Year Treasury Bond", and "Treasury Bills (T-Bills)". These are issued by governments to fund public projects, manage national debt, and stabilize the economy. They are considered very low-risk.

## Why Investors Choose Them

**Corporate bonds** offer higher yields than government bonds, appealing to investors seeking income and portfolio diversification, balanced against corporate credit risk.

**Government securities** are favored for their safety, liquidity, and role as safe-haven assets, providing capital preservation, especially in volatile markets.

# Diverse Debt Instruments Explained

1

## Convertible Bonds

**Example:** Tesla Convertible Bonds

**Why companies issue:** Attract investors with potential equity upside, often at lower interest rates than traditional debt, while deferring stock dilution.

**Why investors buy:** Offers fixed income stability as a bond with the option to convert to equity for capital appreciation if the underlying stock performs well.

2

## Commercial Paper

**Example:** Amazon Commercial Paper

**Why companies issue:** Short-term financing for immediate operational needs, like inventory or payroll, providing a flexible and cost-effective alternative to bank loans.

**Why investors buy:** Provides a highly liquid, short-term investment option with a competitive yield, ideal for managing corporate cash surpluses.

3

## Redeemable Preferred Stock

**Example:** Major Bank Preferred Stock

**Why companies issue:** Raise capital without immediately diluting common shareholders, with the flexibility to redeem shares when interest rates or market conditions are more favorable.

**Why investors buy:** Offers consistent dividend income, often higher than common stock, and has priority over common stockholders in dividend payments and liquidation.

# What Debt Securities Exclude

## **Derivative Contracts**

Options, futures, and forward contracts are not classified as debt securities despite being financial instruments.

## **Lease Agreements**

Lease contracts fall under separate accounting standards and are not considered debt securities.

## **Receivables**

Accounts receivable and notes receivable are excluded from debt security classification.

# Three Classification Categories

Debt securities must be classified into one of three categories based on management's intent and ability. This classification determines how the security is measured and reported in financial statements.

## **Trading Securities**

Bought and held for near-term sale with active trading

## **Available-for-Sale**

Securities not meeting other category definitions

## **Held-to-Maturity**

Intent and ability to hold until maturity date

# Trading Securities

## Key Characteristics

Trading securities are debt instruments purchased with the principal purpose of selling them in the near term. They reflect active and frequent buying and selling activities, with the objective of generating profits from short-term price fluctuations.

These securities are generally reported as current assets on the balance sheet, though they can be classified as non-current if management's intent supports that classification.



# Unrealized Gains and Losses: Trading Securities

## Recognition in Earnings

Unrealized gains and losses on trading securities are included in earnings and recognized in net income for the period.

1

2

## Journal Entries

### For Unrealized Loss:

DR: Unrealized loss on trading securities  
CR: Valuation account

## Impact on Equity

Because the unrealized gain or loss flows through net income, it ultimately affects retained earnings and total equity.

3

### For Unrealized Gain:

DR: Valuation account  
CR: Unrealized gain on trading securities

# Trading Securities: Cash Flow Treatment

01

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## Classification Rule

Buying or selling trading securities is classified as operating cash flows when the security is a current asset, which is the general rule.

02

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## Income Statement Impact

Interest income on the bond is recognized on the income statement along with any realized or unrealized gains or losses.

03

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## Exception Case

If trading securities are classified as non-current assets, transactions are reported as investing cash flows instead.

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# Trading Securities: Cash Flow Nuance

Under U.S. GAAP, trading debt security transactions are classified in operating or investing cash flows based on the nature and purpose for which the securities were acquired.

**1**

## **Current Asset Classification**

If trading debt securities are classified as current on the balance sheet, transactions are reported as operating cash flows.

**2**

## **Non-Current Asset Classification**

If trading debt securities are classified as non-current on the balance sheet, transactions are reported as investing cash flows.

# Trading Securities: Comprehensive Example

Let's trace the journey of Company XYZ's trading securities through purchase, fair value adjustments, and final sale, including all journal entries and cash flow impacts.

## 1 January 1: Bond Purchase

Company XYZ purchases \$50,000 of corporate bonds for trading.

Debit: Trading Securities	\$50,000
Credit: Cash	\$50,000

**Cash Flow Impact:** This is an **Operating Cash Outflow** of \$50,000, as the acquisition of trading securities (held as current assets) is part of a company's normal operating activities.

## 3 June 30: Unrealized Loss

The fair value of the bonds decreases to \$51,000.

Debit: Unrealized Loss on Trading Securities	\$1,000
Credit: Valuation Allowance - Trading Securities	\$1,000

**Cash Flow Impact:** Similar to the unrealized gain, this is a non-cash adjustment. It **does not directly impact the Cash Flow Statement**. The unrealized loss is recognized in net income.

1

2

## 2 March 31: Unrealized Gain

At quarter-end, the fair value of the bonds increases to \$52,000.

Debit: Valuation Allowance - Trading Securities	\$2,000
Credit: Unrealized Gain on Trading Securities	\$2,000

**Cash Flow Impact:** This is a non-cash adjustment. It **does not impact the Cash Flow Statement** directly as no cash has been exchanged. The unrealized gain is recognized in net income.

3

4

## 4 September 30: Sale of Bonds

The bonds are sold for \$53,000.

Debit: Cash	\$53,000
Credit: Trading Securities	\$50,000
Credit: Valuation Allowance - Trading Securities	\$1,000
Credit: Realized Gain on Sale of Securities	\$2,000

**Cash Flow Impact:** This results in an **Operating Cash Inflow** of \$53,000. The full proceeds from the sale are reported as an inflow, offsetting the initial purchase.

## Total Gain Recognized

The total gain recognized in earnings over the period is the sum of all unrealized and realized gains/losses:

- Unrealized Gain (March 31): \$2,000
- Unrealized Loss (June 30): (\$1,000)
- Realized Gain (September 30): \$2,000
- **Total Gain: \$2,000 - \$1,000 + \$2,000 = \$3,000**

The realized gain is calculated as the sale price minus the carrying value of the securities (original cost adjusted by the valuation allowance), which prevents double-counting previously recognized unrealized gains or losses. This ensures the total gain recognized matches the economic gain from the investment (\$53,000 sale price - \$50,000 original cost).

This demonstrates how all fair value changes for trading securities impact net income, whether realized or unrealized.



# Sale of Debt Securities

When a debt security from any classification category is sold, a realized gain or loss must be recognized in net income for the period.

Any valuation account balance related to the sold security must also be removed from the books at the time of sale.

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# Sale of Trading Securities

The realized gain or loss on the sale of a trading debt security equals the difference between the selling price and the adjusted cost (original cost plus or minus unrealized gains and losses previously recognized in net income).

## 1 Calculate Gain/Loss

Selling price - Carrying value at time of sale = Gain or loss

Example:  $\$95,000 - \$88,000 = \$7,000$  gain

## 2 Record the Sale

DR: Cash \$95,000

CR: Trading security \$88,000

CR: Realized gain \$7,000

# Available-for-Sale Debt Securities

Available-for-sale debt securities are those that do not meet the definitions of trading or held-to-maturity classifications. This is essentially the default category for debt securities.

## Balance Sheet Presentation

Reported as either current or non-current assets depending on management's intent regarding the timing of sale.

## Cash Flow Classification

Buying or selling available-for-sale securities is classified as investing cash flows when classified as non-current, which is the general rule.

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# Available-for-Sale: Income Recognition

## Realized Losses

Any realized loss from the sale of an available-for-sale security is recognized on the income statement in the period of sale.

## Unrealized Gains/Losses

Unrealized gains or losses bypass the income statement and go directly to equity through other comprehensive income (OCI).

The reason unrealized gains and losses for available-for-sale securities are recorded in OCI, rather than directly impacting net income, is because management has not yet committed to selling these securities. These are considered "paper" gains or losses, reflecting market fluctuations that may reverse before the security is actually sold. Including such temporary volatility in net income could mislead investors about the company's core operating performance and earnings stability.

Interest income on the bond is always recognized on the income statement regardless of unrealized gain or loss treatment.

# Unrealized Gains and Losses: Available-for-Sale

Unrealized gains and losses on available-for-sale debt securities receive different treatment than trading securities. They are recognized in other comprehensive income rather than net income.

1

## Bypass Net Income

The unrealized gain or loss does not affect current period net income or earnings per share.

2

## Direct to Equity

The amount goes directly to accumulated other comprehensive income, a component of stockholders' equity.

3

## Journal Entries

### For Unrealized Loss:

DR: Unrealized loss on AFS securities  
CR: Valuation account

### For Unrealized Gain:

DR: Valuation account  
CR: Unrealized gain on AFS securities

Both the unrealized loss and gain entries are recognized in Other Comprehensive Income (OCI), not directly in net income.

# Fair Value Reporting Requirements

Debt securities classified as trading and available-for-sale must be reported at fair value on the balance sheet. This creates transparency but also introduces volatility into financial reporting.

## Fair Value Definition

Fair value represents the market price of the security, or alternatively, the price that willing buyers and sellers would agree upon to exchange the security in an arm's length transaction.

## Resulting Impact

Changes in fair value create unrealized holding gains or losses. The reporting location of these gains or losses depends on the security's classification.

# Available-for-Sale Securities: Detailed Example

Let's walk through a comprehensive example of an available-for-sale debt security, from purchase to sale, including all necessary journal entries and cash flow impacts. This scenario highlights the distinct treatment of unrealized gains and losses in Other Comprehensive Income (OCI).

## 1 January 1: Purchase of Bonds

Company ABC purchases \$60,000 of government bonds, classified as available-for-sale.

Debit: Available-for-Sale Securities	\$60,000
Credit: Cash	\$60,000

**Cash Flow Impact:** This is an **Investing Cash Outflow** of \$60,000.

## 2 March 31: Unrealized Gain

At quarter-end, the fair value of the bonds increases to \$63,000. The unrealized gain of \$3,000 (\$63,000 - \$60,000) is recognized in Other Comprehensive Income (OCI).

Debit: Valuation Allowance - AFS Securities	\$3,000
Credit: Unrealized Gain (OCI)	\$3,000

**Cash Flow Impact:** This is a non-cash adjustment and **does not impact the Cash Flow Statement** directly. It affects equity through OCI.

## 3 June 30: Unrealized Loss

The fair value of the bonds decreases to \$61,000. The cumulative unrealized gain is now \$1,000 (\$61,000 - \$60,000). Since the Valuation Allowance balance was \$3,000, we need to reduce it by \$2,000 (\$3,000 - \$1,000).

Debit: Unrealized Loss (OCI)	\$2,000
Credit: Valuation Allowance - AFS Securities	\$2,000

**Cash Flow Impact:** This is also a non-cash adjustment and **does not directly impact the Cash Flow Statement**.

## 4 September 30: Sale of Bonds

The bonds are sold for \$65,000. This combined entry removes the security from the books, clears the related valuation allowance and accumulated OCI, and recognizes the total economic gain of \$5,000 (\$65,000 sale price - \$60,000 original cost) in net income.

Debit: Cash	\$65,000
Debit: Accumulated OCI	\$1,000
Credit: Available-for-Sale Securities	\$60,000
Credit: Valuation Allowance - AFS Securities	\$1,000
Credit: Realized Gain on Sale	\$5,000

**Cash Flow Impact:** This is an **Investing Cash Inflow** of \$65,000.

# Impact on Financial Statements: AFS Example

Following the comprehensive example of the Available-for-Sale (AFS) debt security, let's examine how the purchase, fair value adjustments, and eventual sale affect the three primary financial statements.

## 1. Income Statement (Partial)

The Income Statement recognizes only the **realized gain** when the security is actually sold. Prior unrealized gains or losses are not reported here.

Realized gain on sale of Available-for-Sale Securities	5000
<b>Net Income Impact (from this transaction)</b>	<b>5000</b>

*Explanation:* The \$5,000 gain on sale (selling price of \$65,000 minus original cost of \$60,000) is recognized as income, reflecting the actual profit generated from the transaction.

## 2. Statement of Comprehensive Income

This statement bridges Net Income with Other Comprehensive Income (OCI) items, providing a complete picture of changes in equity from non-owner sources. The \$5,000 in net income includes \$1,000 that was already recognized in prior periods' comprehensive income. The reclassification adjustment removes this to avoid double-counting across periods.

Net Income (including \$5,000 realized gain)	5000
<b>Other Comprehensive Income (OCI)</b>	
Less: Reclassification adjustment for gain on AFS securities	-1000
<b>Total Comprehensive Income</b>	<b>4000</b>

*Explanation:* At the point of sale, the \$1,000 cumulative unrealized gain previously recorded in OCI must be "recycled" or reclassified out of OCI and into Net Income to avoid double-counting. This reclassification adjustment reduces OCI.

## 3. Balance Sheet (Equity Section)

The equity section reflects the cumulative impact of earnings, distributions, and other comprehensive income items.

Retained Earnings (increased by Net Income)	5000
Accumulated Other Comprehensive Income (AOCI)	0

*Explanation:* Retained Earnings increases by the \$5,000 Net Income impact. Accumulated OCI, which had a balance of \$1,000 before sale, becomes \$0 after the reclassification entry effectively removes the unrealized gain that is now realized.

# Sale of Available-for-Sale Securities

The realized gain or loss on the sale of an available-for-sale debt security equals the difference between the selling price and the original cost of the security. This is a critical distinction from trading securities.

01

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## Calculate Realized Gain/Loss

Selling price - Original cost = Realized gain or loss

Example: \$92,000 - \$88,000 = \$4,000 gain

02

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## Reverse Unrealized Amounts

Any unrealized gains or losses in accumulated OCI must be reversed to prevent double counting.

03

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## Record Complete Entry

Remove the security, reverse OCI amounts, record cash received, and recognize realized gain in earnings.

# AFS Sale: Complete Journal Entry

Assume an available-for-sale security with original cost of \$88,000 has an unrealized gain of \$3,000 in accumulated OCI. The security is sold for \$92,000.

## Journal Entry

DR: Cash \$92,000

DR: Accumulated OCI \$3,000

CR: Available-for-sale security \$88,000

CR: Valuation Allowance - AFS Securities \$3,000

CR: Realized gain on AFS security \$4,000

## Explanation of Entry

The debit to Cash reflects the proceeds received from the sale (\$92,000).

The debit to Accumulated OCI (\$3,000) removes the previously recognized unrealized gain from Other Comprehensive Income, preventing double counting.

The credit to Available-for-sale security (\$88,000) removes the original cost of the security from the balance sheet.

The credit to Valuation Allowance - AFS Securities (\$3,000) eliminates the existing debit balance in this contra-asset account, which would have been established when the unrealized gain was initially recorded.

The credit to Realized gain on AFS security (\$4,000) recognizes the actual economic gain from the sale (\$92,000 selling price - \$88,000 original cost).

**Important Note:** When using the Valuation Allowance approach for AFS securities, it is important to include the Valuation Allowance account in the journal entry upon sale. This ensures that the existing balance (whether debit or credit) related to prior unrealized gains or losses is properly eliminated from the books at the time of sale.

# Held-to-Maturity Securities

## Positive Intent + Ability = HTM Classification

Debt securities can only be classified as held-to-maturity if the corporation has both the positive intent and the demonstrated ability to hold these securities until their maturity date. This classification requires a strong commitment from management.

If management intends to hold the security for an indefinite period but not necessarily to maturity, the security must be classified as available-for-sale instead.

# Held-to-Maturity: Key Requirements

1

## Settlement Restriction

If a security can be settled in a manner where the holder may not recover substantially all of its investment, HTM classification cannot be used.

Example: A convertible bond that allows the issuer to settle by delivering shares instead of cash would not qualify for HTM classification, since the holder might not recover the full cash amount they originally invested.

2

## Balance Sheet Classification

Reported as current or non-current assets based on their time remaining to maturity.

3

## Measurement Basis

Reported at amortized cost rather than fair value.

# Held-to-Maturity: Amortized Cost



## **No Mark-to-Market**

Held-to-maturity debt securities are reported at amortized cost, not fair value. This means they are not marked to market at period end.

## **No Unrealized Gains or Losses**

Because HTM securities are not adjusted to fair value, unrealized gains and losses are not recognized in the financial statements.

## **No Realized Gains or Losses**

There should be no realized gains or losses because the security is held until maturity and not sold before the maturity date.

# Held-to-Maturity: Cash Flow and Income



## Cash Flow Treatment

Buying or selling held-to-maturity securities is classified as investing cash flows. Most likely classified as non-current assets based on maturity date.



## Gains and Losses

No realized or unrealized gains or losses are recognized because the security is held to maturity and not marked to market.





## Interest Income

Interest income on the bond is recognized on the income statement each period.

# Balance Sheet

## Assets

\$56.17	80%	10.00
Ceem	\$224	25.00
20003		11118
Drxd7	Aulec BAL	Entneion
	+4620	5.20 \$0.5.000
	+47.50	3.50 \$5.5.000
	+5.100	0.20 \$6.3.000
	+9.389	5.60 \$57.1100

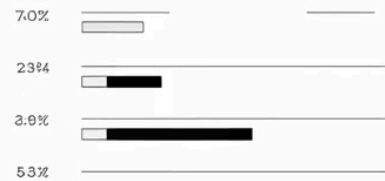
Balance sheet

9.100 \_\_\_\_\_ 8.80

5.2107 \_\_\_\_\_

8.30% \_\_\_\_\_

## Theraine



# Balance Sheet Presentation

Although companies typically maintain two separate general ledger accounts for debt securities - one for cost and one for fair value adjustments - the balance sheet presents only one net amount.

The valuation account (fair value adjustment) is combined with the cost account to show the net carrying value of the securities.

**Example:** ABC Company owns \$100,000 in Apple bonds (AFS). Current fair value is \$105,000. Balance sheet shows: Investment in AFS Securities \$100,000 (original cost) + Valuation Account \$5,000 = Net carrying value \$105,000. The valuation account is a separate contra-asset account that adjusts the investment to fair value without changing the original cost basis.

## Realized Gains and Losses

# All Realized Gains and Losses ⇒ Net Income

Regardless of classification (trading, available-for-sale, or held-to-maturity), all realized gains or losses are recognized in net income for the period.

### Recognition Trigger

Realized gains or losses occur when a debt security is sold or when an available-for-sale debt security is deemed to be impaired.

### Valuation Account Removal

Upon sale, any related valuation account balance must also be removed from the books.

# Classification Summary Table

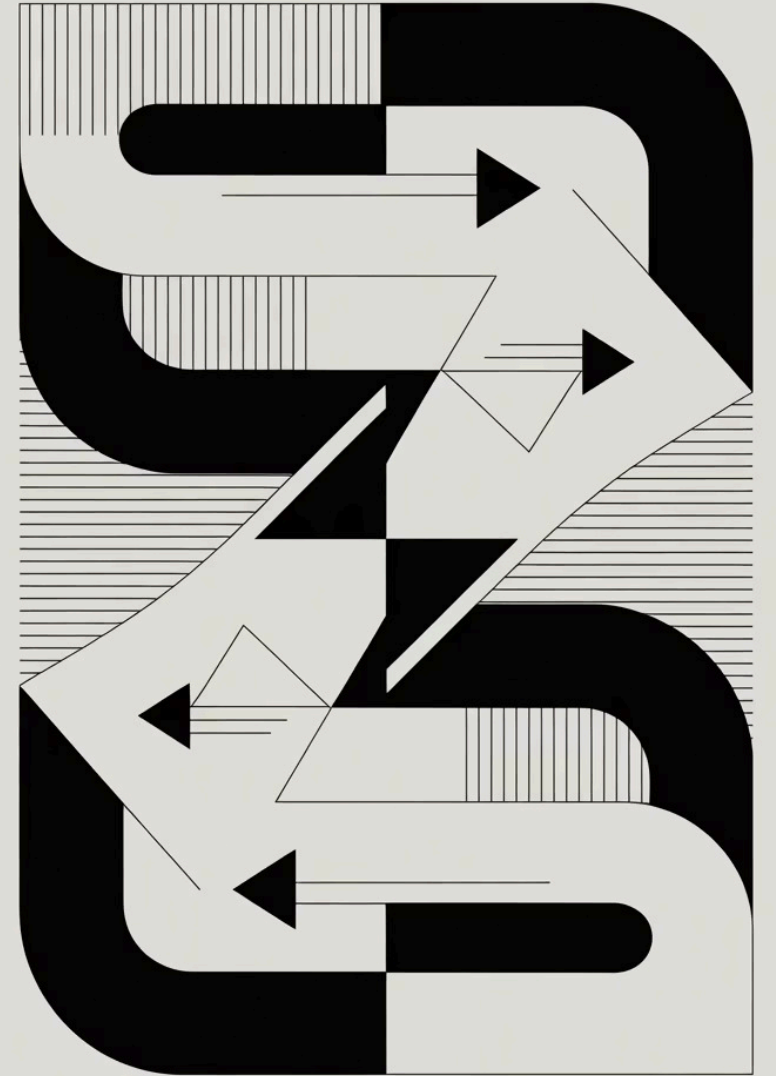
<b>Classification</b>	<b>Balance Sheet</b>	<b>Reported At</b>	<b>Unrealized Gain/Loss</b>	<b>Cash Flow</b>
Trading	Current or non-current	Fair value	Net income	Operating or investing
Available-for-Sale	Current or non-current	Fair value	Other comprehensive income	Investing
Held-to-Maturity	Current or non-current	Amortized cost	None	Investing

# Reclassification Between Categories

Transfers between debt security categories should occur only when justified by changes in circumstances or management intent. These reclassifications have specific accounting requirements.

Each type of transfer has unique rules for how to account for unrealized holding gains or losses at the transfer date.

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# Reclassification: From Trading Securities

## Transfer Account

When transferring from trading to any other category, transfer at fair value.

## Unrealized Gain/Loss Treatment

The unrealized gain or loss has already been recognized in income, so no adjustment is necessary at the transfer date.

## Specific Reclassification Examples

When reclassifying debt securities from the trading category, the transfer is always made at the current fair value. Any unrealized gains or losses existing at the time of transfer have already been recognized in net income in prior periods and therefore require no further adjustment in the transfer entry.

### Example 1: Trading to Available-for-Sale (AFS)

A trading security originally purchased for \$100,000 has a current fair value of \$105,000 at the reclassification date.

#### Journal Entry:

Debit: Available-for-Sale Securities \$105,000

Credit: Trading Securities \$105,000

The \$5,000 unrealized gain was recognized in net income when the security was classified as trading. No new gain or loss is recognized at the transfer date.

### Example 2: Trading to Held-to-Maturity (HTM)

A trading security originally purchased for \$80,000 has a current fair value of \$75,000 at the reclassification date.

#### Journal Entry:

Debit: Held-to-Maturity Securities \$75,000

Credit: Trading Securities \$75,000

The \$5,000 unrealized loss was recognized in net income when the security was classified as trading. No new gain or loss is recognized at the transfer date.

# Reclassification: To Trading Securities

## Transfer Basis

When transferring from any other category to trading, transfer the security at its fair value on the transfer date.

This ensures that all fair value changes are reflected in net income going forward, consistent with trading security treatment.

## Immediate Recognition

Any unrealized holding gain or loss at the transfer date must be recognized immediately in current earnings (net income).

## Specific Reclassification Examples

When reclassifying debt securities to the trading category, they are always transferred at their fair value on the transfer date. Any unrealized gains or losses that exist at the time of transfer must be recognized immediately in current earnings.

Here are specific examples:

### Example 1: Available-for-Sale (AFS) to Trading

An AFS security with an original cost of \$90,000 and a current fair value of \$95,000 is reclassified to trading. The unrealized gain of \$5,000 was previously reported in Other Comprehensive Income (OCI).

#### Journal Entry:

Debit: Trading Securities \$95,000

Credit: Available-for-Sale Securities \$90,000

Credit: Gain on Reclassification of Securities \$5,000

The \$5,000 unrealized gain, previously in OCI, is now recognized in net income at the transfer date.

### Example 2: Held-to-Maturity (HTM) to Trading

An HTM security with an amortized cost of \$85,000 has a current fair value of \$80,000 at the reclassification date.

#### Journal Entry:

Debit: Trading Securities \$80,000

Debit: Loss on Reclassification of Securities \$5,000

Credit: Held-to-Maturity Securities \$85,000

The \$5,000 unrealized loss is recognized in net income at the transfer date.

# Reclassification: HTM to Available-for-Sale

01	02	03
<b>Transfer at Fair Value</b>	<b>Record Unrealized Gain/Loss</b>	<b>Future Treatment</b>
Transfer the security from held-to-maturity to available-for-sale at its fair value on the transfer date.	Calculate the difference between fair value and amortized cost. Record this unrealized gain or loss in other comprehensive income.	Going forward, treat the security as available-for-sale with fair value adjustments through OCI.

This reclassification is necessary when the entity's intent or ability to hold the security to maturity changes. The unrealized gain or loss is recorded in OCI, reflecting that it is not yet realized through sale.

## Specific Reclassification Examples

### Example 1: HTM to AFS (Gain Scenario)

An HTM security with an amortized cost of \$95,000 has a current fair value of \$102,000 at the reclassification date, resulting in an unrealized gain of \$7,000.

#### Journal Entry:

Debit: Available-for-Sale Securities \$102,000  
Credit: Held-to-Maturity Securities \$95,000  
Credit: Unrealized Gain/Loss – OCI \$7,000

The \$7,000 unrealized gain is recognized directly in Other Comprehensive Income (OCI) at the transfer date because the security is now classified as available-for-sale.

### Example 2: HTM to AFS (Loss Scenario)

An HTM security with an amortized cost of \$110,000 has a current fair value of \$105,000 at the reclassification date, resulting in an unrealized loss of \$5,000.

#### Journal Entry:

Debit: Available-for-Sale Securities \$105,000  
Debit: Unrealized Gain/Loss – OCI \$5,000  
Credit: Held-to-Maturity Securities \$110,000

The \$5,000 unrealized loss is recognized directly in Other Comprehensive Income (OCI) at the transfer date, consistent with the treatment for available-for-sale securities.

# Reclassification: Available-for-Sale to HTM

When transferring from available-for-sale to held-to-maturity, the security is transferred at fair value. However, the treatment of the existing unrealized gain or loss in accumulated other comprehensive income requires special handling.

**1**

## Transfer at Fair Value

The security moves to HTM classification at its current fair value.

**2**

## Retain in AOCI

The unrealized gain or loss remains in accumulated other comprehensive income - it is not immediately recognized in earnings.

**3**

## Amortize Over Time

The gain or loss in AOCI is amortized into earnings over the remaining life of the security along with any bond premium or discount amortization.

## Specific Reclassification Examples

Here are two examples demonstrating the reclassification from Available-for-Sale (AFS) to Held-to-Maturity (HTM) and the treatment of the unrealized gain or loss.

### Example 1: AFS to HTM (with unrealized gain in OCI)

An AFS security with an original cost of \$90,000 has a current fair value of **\$95,000** at the reclassification date. This results in an existing unrealized gain of **\$5,000** in Accumulated Other Comprehensive Income (AOCI).

#### Journal Entry for Transfer:

Debit: Held-to-Maturity Securities \$95,000  
Credit: Available-for-Sale Securities \$95,000

The security is transferred at its fair value. The **\$5,000** unrealized gain remains in AOCI and will be amortized into net income over the remaining life of the security, adjusting the effective yield.

### Example 2: AFS to HTM (with unrealized loss in OCI)

An AFS security with an original cost of \$100,000 has a current fair value of **\$92,000** at the reclassification date. This results in an existing unrealized loss of **\$8,000** in Accumulated Other Comprehensive Income (AOCI).

#### Journal Entry for Transfer:

Debit: Held-to-Maturity Securities \$92,000  
Credit: Available-for-Sale Securities \$92,000

The security is transferred at its fair value. The **\$8,000** unrealized loss remains in AOCI and will be amortized into net income over the remaining life of the security, adjusting the effective yield.

# Reclassification: AFS to HTM – Amortization of OCI

When an Available-for-Sale (AFS) security is reclassified to Held-to-Maturity (HTM), any existing unrealized gain or loss in Accumulated Other Comprehensive Income (AOCI) is not immediately recognized in net income. Instead, it is **amortized into earnings over the remaining life of the security**.

01	02	03
<b>Initial OCI Balance</b>	<b>Systematic Amortization</b>	<b>Adjusted Effective Yield</b>
The unrealized gain or loss from the AFS classification remains in AOCI after reclassification to HTM.	This OCI component is systematically amortized (spread out) into net income over the security's remaining life.	The amortization effectively adjusts the security's effective interest rate, ensuring the correct total income recognition over its life.

## Example: Amortizing an Unrealized Gain

Consider an AFS security reclassified to HTM with the following details:

- Original cost: \$100,000
- Fair value at transfer: **\$105,000**
- Unrealized gain in AOCI: **\$5,000** (this is the difference between fair value and original cost)
- Remaining life: 5 years

The **\$5,000** unrealized gain in AOCI will be amortized over 5 years, resulting in an annual amortization of **\$1,000** ( $\$5,000 / 5$  years). This amortization will reduce interest income annually, effectively bringing the security's carrying value from fair value back towards its amortized cost over time.

### Annual Journal Entry (to amortize the OCI gain):

Debit: Unrealized Gain/Loss – OCI (\$1,000)  
Credit: Interest Revenue (\$1,000)

This entry reduces reported interest revenue by the amortized amount of the OCI gain each year, causing the security's carrying value to converge to its original amortized cost by maturity. Conversely, an amortized OCI loss would increase interest revenue.

# Interest Income Recognition

Interest income from investments in debt securities classified as trading or available-for-sale is recorded directly on the income statement as it is earned.

## Basic Journal Entry

DR: Cash

CR: Interest income

This entry records the receipt of interest payments from the debt security issuer.

# Interest Income: Held-to-Maturity Securities

## Bond Discount

A bond discount occurs when a bond's stated interest rate (coupon rate) is **less than** the prevailing market interest rate. This causes the bond to sell for a price **below its face (par) value** to make it attractive to investors.

**Example:** A \$100,000 bond with a 4% stated rate, when the market rate is 6%, might sell for \$95,000.

## Bond Premium

A bond premium occurs when a bond's stated interest rate (coupon rate) is **greater than** the prevailing market interest rate. This causes the bond to sell for a price **above its face (par) value** because its higher coupon payments are more desirable.

**Example:** A \$100,000 bond with an 8% stated rate, when the market rate is 6%, might sell for \$105,000.

## Why do discounts and premiums occur?

Investors are always seeking the best return. If a bond offers a lower stated interest rate than what they could get elsewhere (market rate), they will only buy it if its price is discounted. Conversely, if a bond offers a higher stated interest rate than the market, investors are willing to pay a premium for those more attractive interest payments.

# Effective Interest Method

For debt securities classified as held-to-maturity and measured at amortized cost, interest income is calculated using the effective interest method.

### Formula

Beginning carrying value × Yield to maturity = Interest income

### Purpose

This method ensures that interest income reflects the true economic yield of the investment over its life.

# Effective Interest Method for HTM Securities

The effective interest method is a systematic way to recognize interest revenue on debt investments, particularly for those classified as Held-to-Maturity (HTM). It ensures that the investment's carrying value gradually moves towards its face value by maturity, accurately reflecting the bond's economic yield over its life.

## Interest Income

Calculated as:  
 $\text{Beginning Carrying Value} \times \text{Effective Interest Rate}$

## Discount Amortization

Calculated as:  
 $\text{Interest Income} - \text{Cash Received}$

## Premium Amortization

Calculated as:  
 $\text{Cash Received} - \text{Interest Income}$

## Example Scenario: Bond Purchased at a Discount

Consider a company purchasing a bond with the following characteristics:

- Face Value: \$100,000
- Purchase Price: \$95,000 (at a discount)
- Stated Interest Rate: 5% (annual payments)
- Maturity Period: 3 years
- Effective Interest Rate: Approximately 6.8%

Over the three years, the carrying value of the bond will increase from \$95,000 to \$100,000, and this increase will be recognized as additional interest income through discount amortization.

## Amortization Schedule

This table illustrates the annual calculations using the effective interest method:

Year	Beginning Carrying Value	Cash Received (5% of \$100k)	Interest Income (6.8% of Beg. CV)	Discount Amortization	Ending Carrying Value
1	\$95,000.00	\$5,000.00	\$6,460.00	\$1,460.00	\$96,460.00
2	\$96,460.00	\$5,000.00	\$6,559.28	\$1,559.28	\$98,019.28
3	\$98,019.28	\$5,000.00	\$6,680.72	\$1,680.72	\$100,000.00

## Journal Entries

The following journal entries demonstrate how interest income and discount amortization are recorded each year:

### Year 1 Entry:

```
Debit: Cash          $5,000.00
Debit: Investment in Bonds  $1,460.00
Credit: Interest Revenue    $6,460.00
```

### Year 2 Entry:

```
Debit: Cash          $5,000.00
Debit: Investment in Bonds  $1,559.28
Credit: Interest Revenue    $6,559.28
```

### Year 3 Entry:

```
Debit: Cash          $5,000.00
Debit: Investment in Bonds  $1,680.72
Credit: Interest Revenue    $6,680.72
```

By the end of Year 3, the "Investment in Bonds" account will have increased by the total discount (\$5,000), bringing its carrying value to the face value of \$100,000.

# Effective Interest Method: Bond at a Premium

When a bond is purchased at a **premium**, its stated interest rate (coupon rate) is **higher** than the prevailing market interest rate (effective yield). This means investors are willing to pay more than the bond's face value to secure the higher interest payments. Over the life of the bond, this premium must be amortized, effectively reducing the interest income recognized and bringing the bond's carrying value down to its face value at maturity.



## Interest Income Formula

Beginning Carrying Value  $\times$  Effective Interest Rate



## Premium Amortization

Cash Received  $-$  Interest Income

## Scenario: Bond Purchased at a Premium

Consider a company purchasing a bond with the following characteristics:

- Face Value: \$100,000
- Purchase Price: **\$105,000** (at a premium)
- Stated Interest Rate: 6% (annual payments)
- Maturity Period: 3 years
- Effective Interest Rate: 4.28%

Over the three years, the carrying value of the bond will decrease from **\$105,000** to \$100,000, and this decrease will be recognized as a reduction in interest income through premium amortization.

## Amortization Schedule

Year	Beginning Carrying Value	Cash Received (6% of \$100k)	Interest Income (4.28% of Beg. CV)	Premium Amortization	Ending Carrying Value
1	\$105,000.00	\$6,000.00	\$4,494.00	\$1,506.00	\$103,494.00
2	\$103,494.00	\$6,000.00	\$4,429.54	\$1,570.46	\$101,923.54
3	\$101,923.54	\$6,000.00	\$4,362.48	\$1,637.52	\$100,286.02

(Note: Minor rounding differences may occur due to effective interest rate approximation. The ending carrying value for year 3 should ideally be \$100,000.00)

## Journal Entries

The following journal entries demonstrate how interest income and premium amortization are recorded each year:

### Year 1 Entry:

Debit: Cash	\$6,000.00
Credit: Interest Revenue	\$4,494.00
Credit: Investment in Bonds	\$1,506.00

### Year 2 Entry:

Debit: Cash	\$6,000.00
Credit: Interest Revenue	\$4,429.54
Credit: Investment in Bonds	\$1,570.46

### Year 3 Entry:

Debit: Cash	\$6,000.00
Credit: Interest Revenue	\$4,362.48
Credit: Investment in Bonds	\$1,637.52

By the end of Year 3, the "Investment in Bonds" account will have decreased by the total premium (\$5,000), bringing its carrying value to the face value of \$100,000 at maturity.

# Current Expected Credit Losses (CECL) Model

## Rationale for the CECL Model

- The previous "incurred loss" model was problematic because it was backward-looking, only recognizing losses after they had already occurred, which often led to delayed and insufficient loss provisions.
- The 2008 financial crisis painfully highlighted the critical need for financial institutions to recognize potential losses much earlier to prevent systemic risks.
- CECL is a forward-looking model that requires entities to estimate expected credit losses over the entire life of a financial instrument from the date of initial recognition.
- This approach provides more timely and relevant information to investors and creditors, enabling a clearer picture of an entity's financial health and risk exposure.
- Ultimately, CECL aims to prevent the "too little, too late" problem of loss recognition, promoting greater financial stability and transparency.

Under the CECL model, available-for-sale and held-to-maturity debt securities must be reported at the net amount expected to be collected using an allowance for expected credit losses.



### Current Conditions

Expected credit losses consider current economic and market conditions affecting the borrower's ability to pay.



### Past Experience

Historical loss patterns and credit performance inform the loss estimate.



### Future Expectations

Reasonable and supportable forecasts about future economic conditions are incorporated.

# Credit Loss Recognition

## Income Statement Impact

A credit loss is recognized as a current period expense on the income statement, reducing net income.

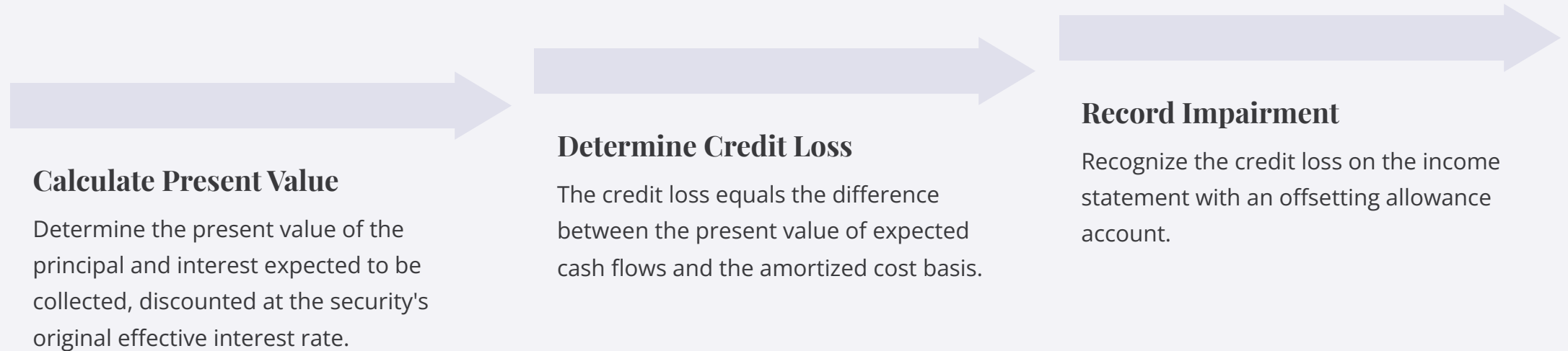
Increases and decreases in expected credit losses are reflected on the income statement in the period when the estimate changes.

## Balance Sheet Impact

An offsetting allowance for credit losses is established on the balance sheet, reducing the carrying value of the debt security.

# Impairment: Held-to-Maturity Securities

When it is determined that all amounts due (principal and interest) will not be collected on a held-to-maturity debt investment, impairment must be recognized.



# HTM Impairment Example

**Facts:** On January 2, Year 1, Company A purchased a \$400,000, five-year bond at par with annual interest at 5% paid on December 31 each year. The investment is classified as held-to-maturity. At the end of Year 1, Company A received the full interest payment of \$20,000, but determined it would only collect \$13,000 annually in interest for the remaining four years plus the \$400,000 face value at maturity.

**\$20K**

**Year 1 Interest**

Full interest payment received

**\$13K**

**Expected Future Interest**

Reduced annual interest for Years 2-5

# HTM Impairment Calculation

$$\text{Credit Loss} = \text{Amortized Cost} - \text{Present Value of Expected Future Cash Flows}$$

This fundamental calculation is used in the HTM impairment example that follows, helping us understand the underlying concept before diving into the specific numbers.

The **amortized cost** for Held-to-Maturity (HTM) securities represents the bond's original cost, adjusted over time for any premium or discount amortization. It is the carrying value of the bond reported on the balance sheet. Amortized cost is used in this calculation because, unlike trading or available-for-sale (AFS) securities, HTM securities are not marked to fair value. This approach reflects the economic reality of holding the bond until maturity and represents the amount the company expects to recover from the investment if there were no credit issues. In our example, the \$400,000 represents the amortized cost of the bond at December 31, Year 2, which equals its original cost because the bond was purchased at par with no premium or discount to amortize.

Using present value factors: PV of \$1 at 5% for four periods = 0.82270; PV of ordinary annuity of \$1 at 5% for four periods = 3.54595

01

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## Calculate Present Value

Interest:  $\$13,000 \times 3.54595 = \$46,097$

Principal:  $\$400,000 \times 0.82270 = \$329,080$

Total PV = \$375,177

02

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## Calculate Credit Loss

$\$400,000 - \$375,177 = \$24,823$  credit loss

03

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## Journal Entry

DR: Credit loss \$24,823

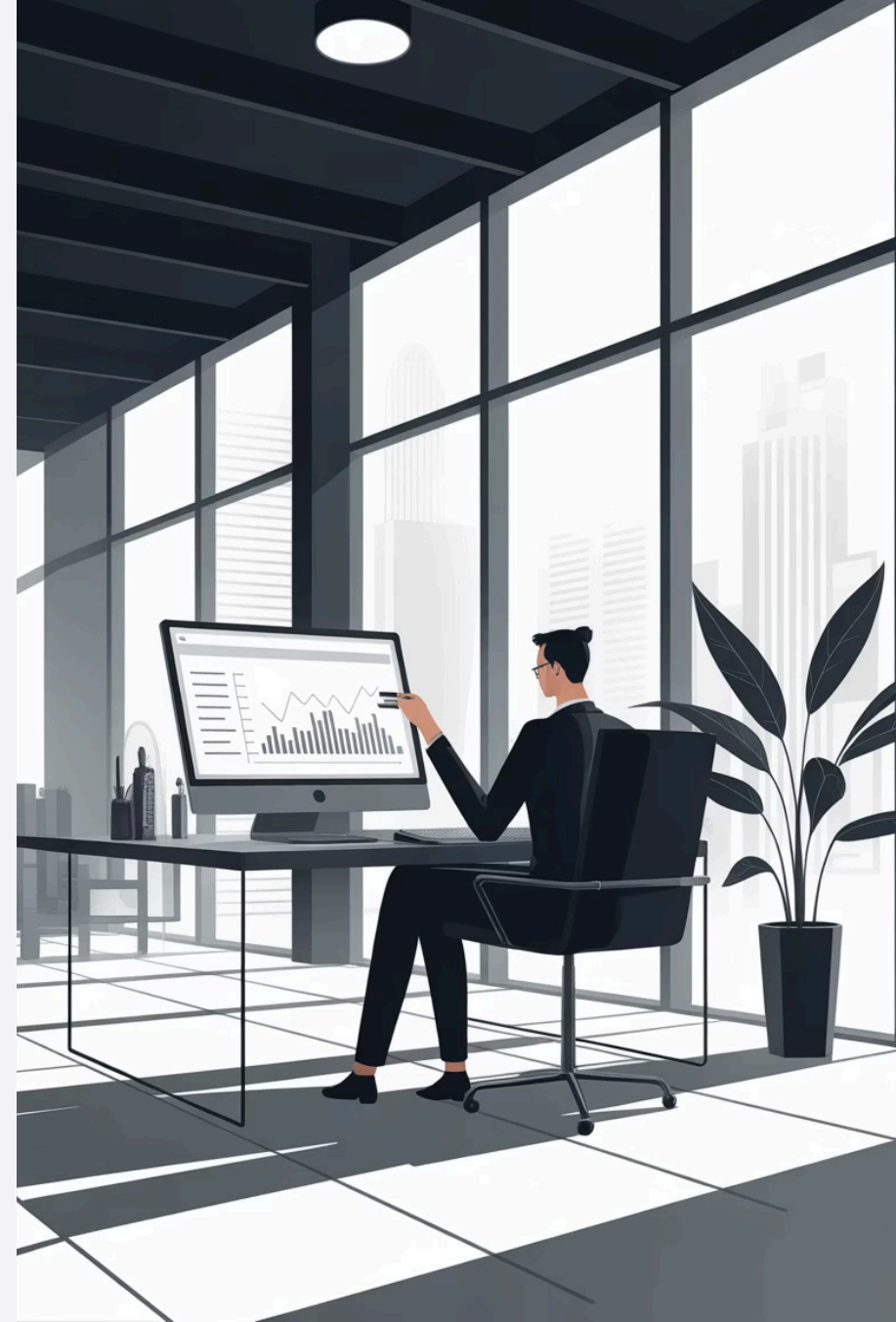
CR: Allowance for credit loss \$24,823

# Impairment: Available-for-Sale Securities

Available-for-sale debt securities have different impairment accounting than held-to-maturity because the investor can sell the security if the loss on sale would be less than the expected credit loss.

The credit loss reported in net income is limited to the amount by which fair value is below amortized cost. Any additional loss is reported as an unrealized loss in other comprehensive income.

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# AFS Impairment: Maximum Loss Rule

## Maximum Loss = Expected Credit Loss



### Income Statement Limit

The loss recognized in net income cannot exceed the expected credit loss calculated using present value of future cash flows.



### Fair Value Consideration

If fair value is above the present value of expected cash flows, no credit loss is recognized in earnings.



### OCI Treatment

Any additional fair value decline beyond the credit loss goes to other comprehensive income.

The logic behind the maximum loss rule for AFS securities is rooted in how these investments are reported. AFS securities are carried at fair value on the balance sheet. Therefore, any decline in value below this fair value is considered a market-related loss, not necessarily a credit loss.

Credit losses specifically represent the portion of the decline due to the issuer's inability to fulfill their payment obligations. This portion of the loss cannot exceed the total expected credit loss.

Any additional decline in the security's fair value beyond the present value of expected cash flows (i.e., the credit loss) is considered a temporary market fluctuation. These temporary fluctuations are reported in Other Comprehensive Income (OCI), rather than impacting net income directly.

This distinction prevents the over-recognition of credit losses in the income statement, especially when factors other than credit risk, such as changes in interest rates or overall market conditions, also affect the security's value.

# AFS Impairment Example Setup

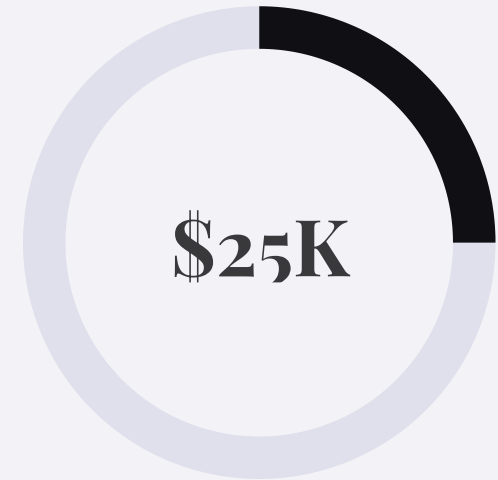
**Facts:** Same as the HTM example - Company B purchased a \$400,000 bond at par on January 2, Year 1, with 5% annual interest. At December 31, Year 1, after receiving \$20,000 interest, the company expects to collect only \$13,000 annually for the remaining four years plus face value. However, this investment is classified as available-for-sale.



Amortized cost at 1/1/Year 1



Present value of future cash flows



Expected credit loss

# AFS Impairment: Three Scenarios

Item	Scenario 1	Scenario 2	Scenario 3
Amortized cost	\$400,000	\$400,000	\$400,000
Fair value 12/31/Yr 1	\$420,000	\$385,000	\$360,000
Expected credit loss	\$24,823	\$24,823	\$24,823
Credit loss (net income)	\$0	\$15,000	\$24,823
Unrealized gain (OCI)	\$20,000	\$0	\$0
Unrealized loss (OCI)	\$0	\$0	\$15,177

**Scenario 1 Logic:** Fair value exceeds amortized cost, meaning the bond has actually increased in value. Since there's no decline, there's no impairment to recognize - only an unrealized gain.

**Scenario 2 Logic:** Fair value (\$385,000) is above the present value of expected cash flows (\$375,177). While the calculated expected credit loss is \$24,823, the credit loss recognized in net income is limited to the fair value decline of \$15,000. No loss goes to OCI since fair value exceeds the PV of expected cash flows.

**Scenario 3 Logic:** Fair value is below both amortized cost AND the present value of expected cash flows. The credit loss portion (\$24,823) goes to net income, while the additional decline (\$15,177) is due to market factors and goes to OCI.

# AFS Impairment: Journal Entries

**Scenario 1 (FV \$420,000):** Fair value exceeds amortized cost, so no credit loss is recognized. Record unrealized gain in OCI.

DR: Valuation account \$20,000

CR: Unrealized gain on AFS security \$20,000

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**Scenario 2 (FV \$385,000):** Fair value is below amortized cost but above PV of cash flows. Credit loss is limited to the fair value decline.

DR: Credit loss \$15,000

CR: Allowance for credit losses \$15,000

# AFS Impairment: Scenario 3 Journal Entry

**Scenario 3 (FV \$360,000):** Fair value is significantly below both amortized cost (\$400,000) and PV of expected cash flows (\$375,177). The credit loss of \$24,823 is recognized in net income as credit loss expense. An additional unrealized loss of \$15,177 is recognized in OCI. The journal entry reflects these two components, totaling a \$40,000 overall decline in value (\$400,000 amortized cost - \$360,000 fair value), split between the credit loss component (\$24,823) and the market-related decline (\$15,177).

DR: Credit Loss Expense \$24,823

DR: Unrealized Loss on AFS Security (OCI) \$15,177

CR: Allowance for Credit Losses \$24,823

CR: Valuation Account \$15,177

This entry clearly separates the credit loss component (\$24,823), which directly impacts net income via the Credit Loss Expense and increases the Allowance for Credit Losses, from the non-credit portion (\$15,177). The Unrealized Loss on AFS Security (OCI) reflects the portion of the fair value decline below the PV of expected cash flows, and the Valuation Account is credited for this amount to bring the security's carrying value to fair value.

# Valuation Account vs. Allowance Account

When making changes to the carrying value of debt securities, it's critical to use the correct contra-account depending on the nature of the adjustment.

## **Valuation Account**

Used for unrealized gains and losses related to fair value adjustments. This account adjusts the security to fair value for trading and available-for-sale securities.

## **Allowance for Credit Losses**

Used specifically for expected credit losses under the CECL model. This account reduces the carrying value for anticipated defaults or payment shortfalls.

# Disclosure Requirements

Entities must provide extensive disclosures about their debt security investments to give financial statement users transparency into investment activities and risks.



## Fair Value Information

Aggregate fair value must be disclosed for available-for-sale and held-to-maturity securities.



## Unrealized Gains and Losses

Gross unrealized holding gains and losses must be separately disclosed.



## Amortized Cost by Type

Amortized cost basis must be disclosed by major security type.

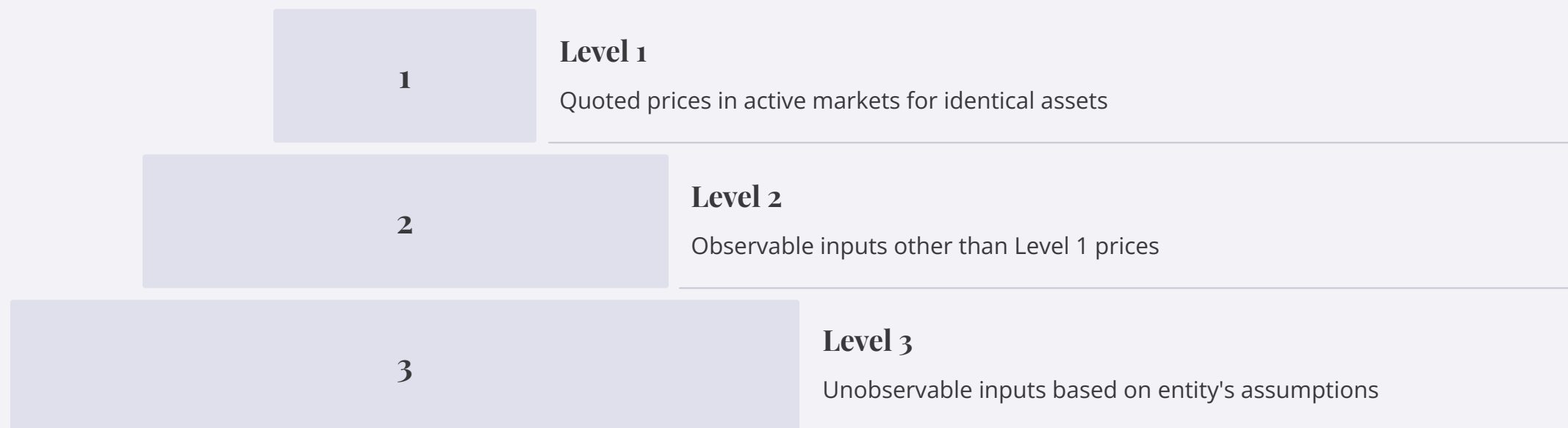


## Maturity Information

Information about contractual maturities of debt securities must be provided.

# Fair Value Hierarchy and Concentrations

Public business entities must provide additional fair value disclosures beyond basic requirements, including classification within the fair value hierarchy.



Entities must also disclose significant concentrations of credit risk arising from debt securities, including risks from parties in the same industry or region.