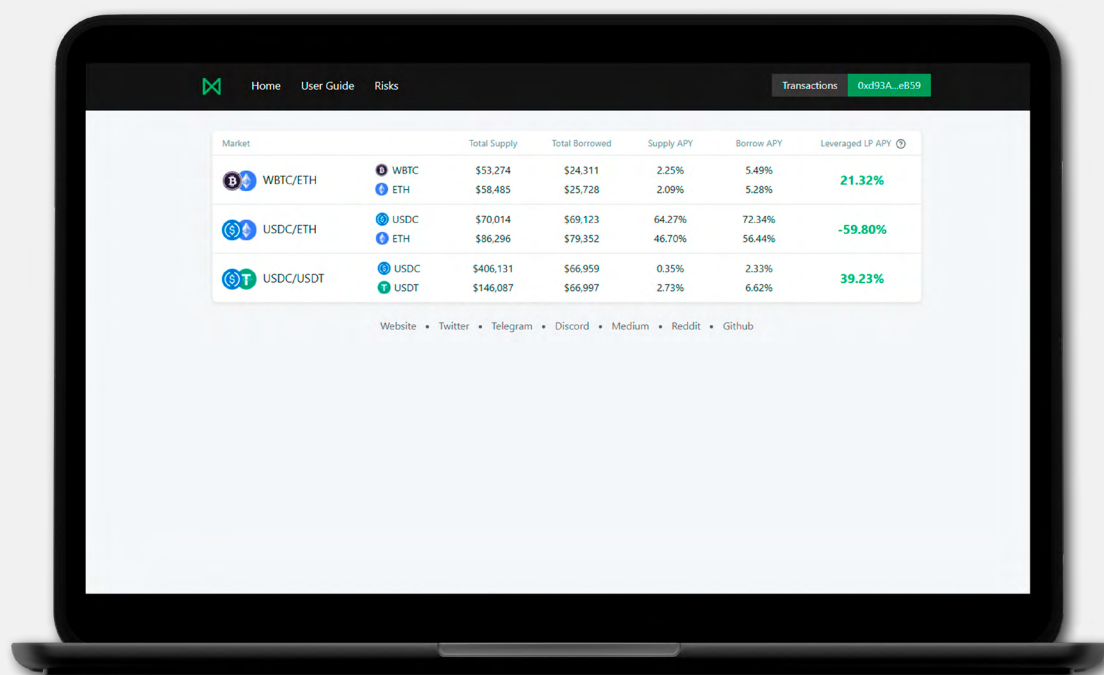




Impermax.finance User Guide



Launch App



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- How to borrow tokens using LP tokens as collateral
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Click to go!

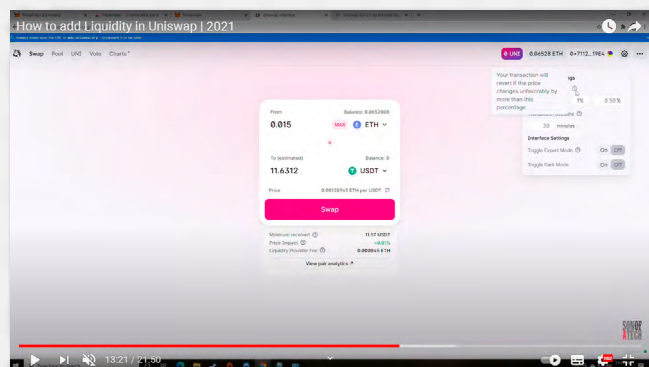


Basic Requirements

1. Download and set up a Web3 wallet such as [Metamask](#) or similar.
2. Get some ETH and transfer it to your Web3 wallet.
3. If you want to borrow, you'll need Uniswap LP Tokens. Go to [Uniswap.org](#), connect your Web3 wallet, and provide liquidity for WBTC/ETH or ETH/USDC.
(Or other supported pairs on Impermax. More to be added soon.)
 - After providing liquidity, you will have LP tokens in your wallet.

If you are not familiar with these steps, this Youtuber provides a handy walkthrough.

[How to add Liquidity in Uniswap | 2021](#)



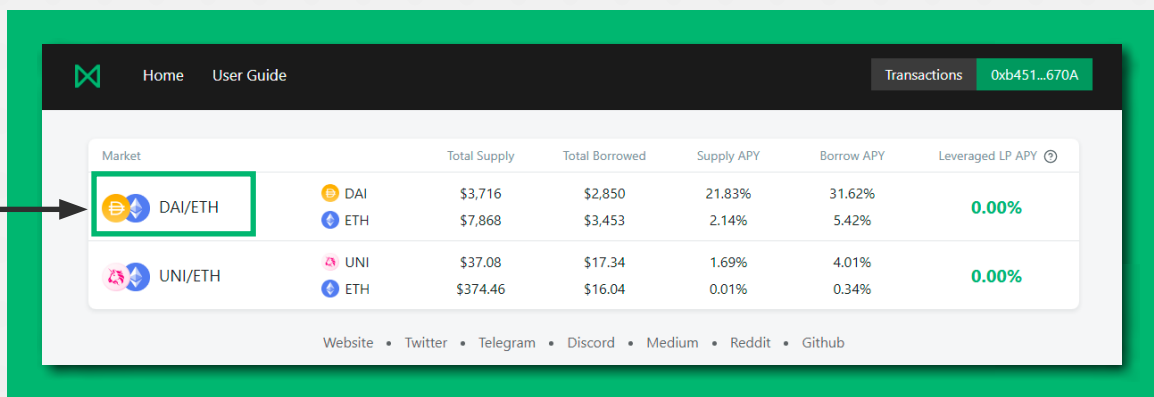
(Note: Impermax is not affiliated with this Youtube content and makes no guarantees about its accuracy.)

How to deposit LP tokens

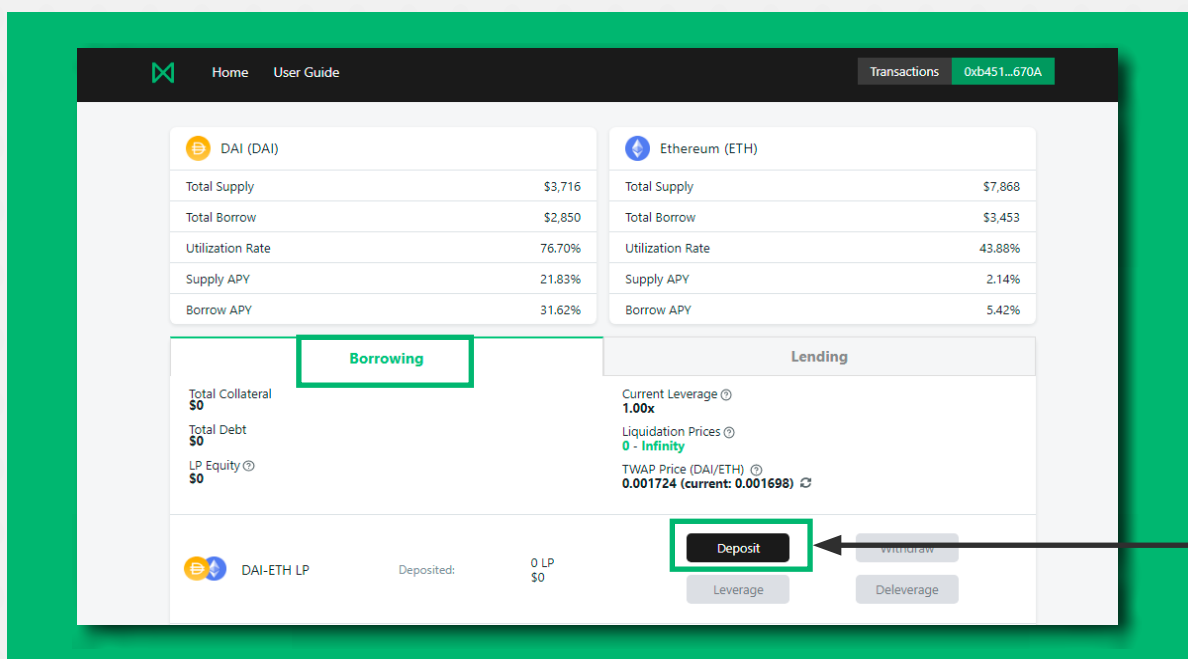
Complete these steps to use your LP tokens as collateral and borrow more tokens to automatically multiply your potential yields.

1. Go to app.impermax.finance and connect your Web3 wallet to the app.
2. You'll see a list of available token pairs. Make sure you own some tokens of the pair you want to leverage. In this example we'll use DAI/ETH.

- **Click** on the DAI/ETH symbol.

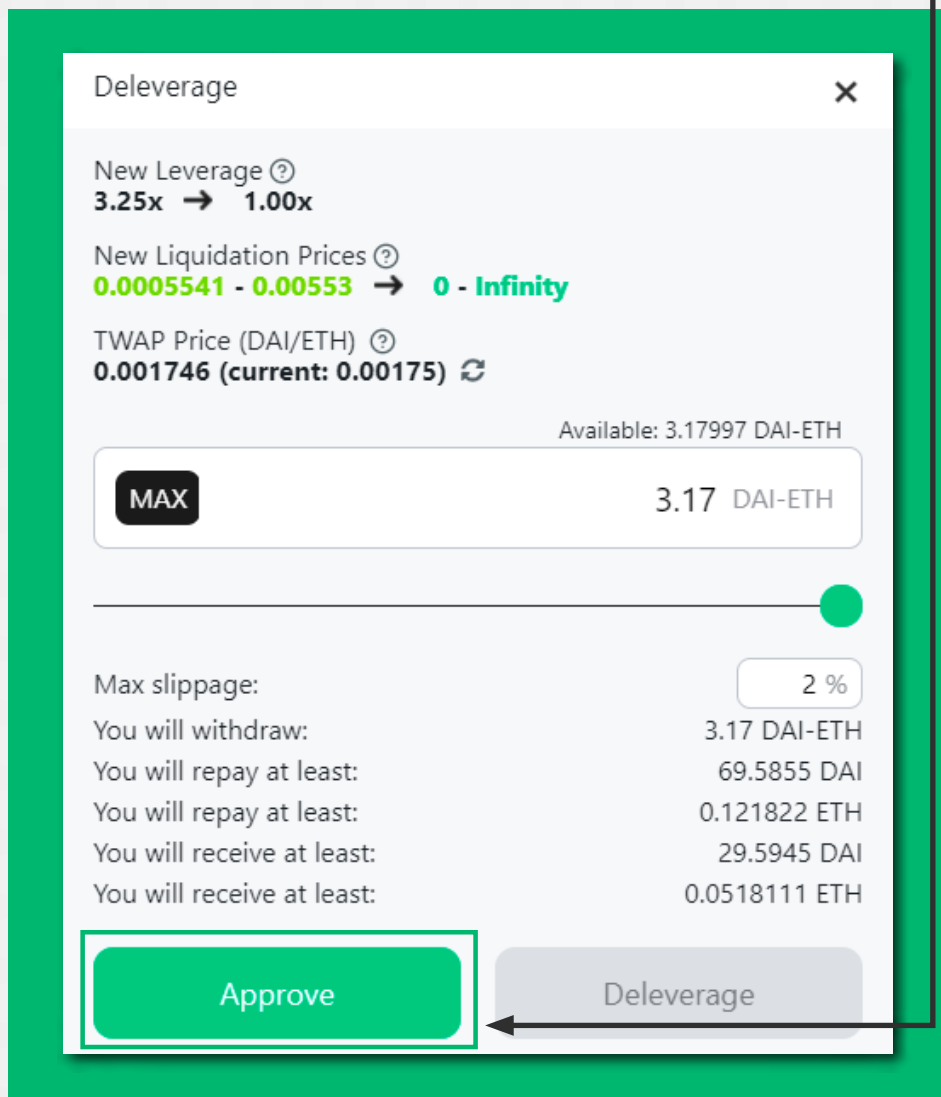


3. You'll see the UI panel for DAI/ETH. Make sure the borrowing LP tab is selected. Then **click** the Deposit button.



How to deposit LP tokens

4. A deposit information window will appear. Use the slider to select the amount of LP tokens you want to deposit and **click** Approve. Then sign the Web3 wallet transaction.
- Note that New Leverage, New Liquidation Price, and TWAP numbers aren't important at this step.
 - Transaction Size near the bottom will show you the amount of each token represented by the LP token deposit



The image shows a 'Deleverage' window from the Impermax interface. A green dot on the right side of the window is connected by a line to the 'Approve' button at the bottom. Another green dot is placed on the slider bar, with a line pointing to the 'Deleverage' button at the bottom. The window displays the following information:

Deleverage [Close X]

New Leverage ⓘ
3.25x → 1.00x

New Liquidation Prices ⓘ
0.0005541 - 0.00553 → 0 - Infinity

TWAP Price (DAI/ETH) ⓘ
0.001746 (current: 0.00175) ↻

Available: 3.17997 DAI-ETH

[MAX] 3.17 DAI-ETH

Max slippage: 2 %

You will withdraw: 3.17 DAI-ETH

You will repay at least: 69.5855 DAI

You will repay at least: 0.121822 ETH

You will receive at least: 29.5945 DAI

You will receive at least: 0.0518111 ETH

[Approve] [Deleverage]

How to deposit LP tokens

Deposit complete!

Deposit

×

Available: 4.74707 DAI-ETH

MAX

0.4 DAI-ETH

Transaction size:

12.6638 DAI
+0.0220848 ETH

Approve ✓

Deposit



How to leverage your LP tokens

Note that you must have already deposited LP tokens as explained in How to deposit LP tokens.

1. **Click** the Leverage button.

The screenshot displays the Impermax web interface. At the top, there's a navigation bar with 'Home' and 'User Guide' links, and a 'Transactions' button next to the user's address '0xd93A...eB59'. The main content area is divided into two columns for 'DAI (DAI)' and 'Ethereum (ETH)'. Each column has a table with metrics: Total Supply, Total Borrow, Utilization Rate, Supply APY, and Borrow APY. Below these tables, there are sections for 'Borrowing' and 'Lending'. The 'Borrowing' section shows 'Total Collateral \$25.28', 'Total Debt \$0', and 'LP Equity \$25.28'. The 'Lending' section shows 'Current Leverage 1.00x', 'Liquidation Prices 0 - Infinity', and 'TWAP Price (DAI/ETH) 0.001744 (current: 0.00175)'. At the bottom, there's a 'DAI-ETH LP' section showing 'Deposited: 0.399999 LP \$25.28'. To the right of this, there are four buttons: 'Deposit', 'Withdraw', 'Leverage', and 'Deleverage'. The 'Leverage' button is highlighted with a green box and a green arrow points to it from the left.

DAI (DAI)		Ethereum (ETH)	
Total Supply	\$3,717	Total Supply	\$7,700
Total Borrow	\$2,851	Total Borrow	\$3,351
Utilization Rate	76.70%	Utilization Rate	43.52%
Supply APY	21.83%	Supply APY	2.09%
Borrow APY	31.62%	Borrow APY	5.33%

Borrowing
Total Collateral
\$25.28
Total Debt
\$0
LP Equity ⓘ
\$25.28

Lending
Current Leverage ⓘ
1.00x
Liquidation Prices ⓘ
0 - Infinity
TWAP Price (DAI/ETH) ⓘ
0.001744 (current: 0.00175) ↻

DAI-ETH LP
Deposited: 0.399999 LP
\$25.28

Deposit

Withdraw

Leverage

Deleverage

How to leverage your LP tokens

2. In the leverage information window, use the slider or type in the amount of leverage you want. Approve the DAI transaction and sign it in your wallet. Then **approve** the ETH transaction and sign it in your wallet.

Leverage

New Leverage ⓘ
6.54x → 6.60x

New Liquidation Prices ⓘ
0.001095 - 0.002797 → 0.001103 - 0.002776

TWAP Price (DAI/ETH) ⓘ
0.001746 (current: 0.00175) ↻

Max leverage: 11.3531 x

MAX

6.6 x

Max slippage: 2 %

You will borrow at most: 0.80534 DAI

You will borrow at most: 0.0014099 ETH

Borrow Fee: 0.00080534 DAI

Borrow Fee: 0.0000014099 ETH

You will get at least: 0.0252356 DAI-ETH

Estimated APY: 0.00%

Approve DAI

Approve ETH

Leverage

3. **Click** the Leverage button and Confirm in your wallet.

Leverage

New Leverage ?
1.00x → 6.50x

New Liquidation Prices ?
0 - Infinity → 0.00109 - 0.002809

TWAP Price (DAI/ETH) ?
0.001744 (current: 0.00175) ↻

Max leverage: 11.3634 x

MAX

6.5 x

Max slippage:

2 %

You will borrow at most:

69.5158 DAI

You will borrow at most:

0.1217 ETH

Borrow Fee:

0.0695158 DAI

Borrow Fee:

0.0001217 ETH

You will get at least:

2.1783 DAI-ETH

Estimated APY:

0.00%

Approve DAI ✓

Approve ETH ✓

Leverage

How to leverage your LP tokens

4. Once the transaction is confirmed, check the DAI/ETH page to see your new **leverage position**.

- All this highlighted information relates to your current leveraged position. In the example below:
 - Your LP tokens are worth **\$61.79**
 - You have borrowed **\$139.17**
 - You own a total of **\$200.96 worth of LP tokens.**
 - Your leverage is **3.25x**
 - Your position can be liquidated if the token price goes **.00005541 or above .00553**

The screenshot displays the Impermax interface for the DAI/ETH LP position. The top navigation bar includes the Impermax logo, 'Home', 'User Guide', 'Transactions', and a user address '0xd93A...eB59'. The main content area is divided into two columns for 'DAI (DAI)' and 'Ethereum (ETH)'. Below these are tables for supply and borrow statistics. The 'Borrowing' and 'Lending' tabs are visible, with the 'Borrowing' tab selected. A green box highlights the 'Total Collateral', 'Total Debt', 'LP Equity', 'Current Leverage', 'Liquidation Prices', and 'TWAP Price' sections. At the bottom, there are buttons for 'Deposit', 'Withdraw', 'Leverage', and 'Deleverage'.

DAI (DAI)	Ethereum (ETH)
Total Supply: \$3,717	Total Supply: \$7,700
Total Borrow: \$2,921	Total Borrow: \$3,420
Utilization Rate: 78.58%	Utilization Rate: 44.42%
Supply APY: 25.87%	Supply APY: 2.17%
Borrow APY: 36.58%	Borrow APY: 5.43%

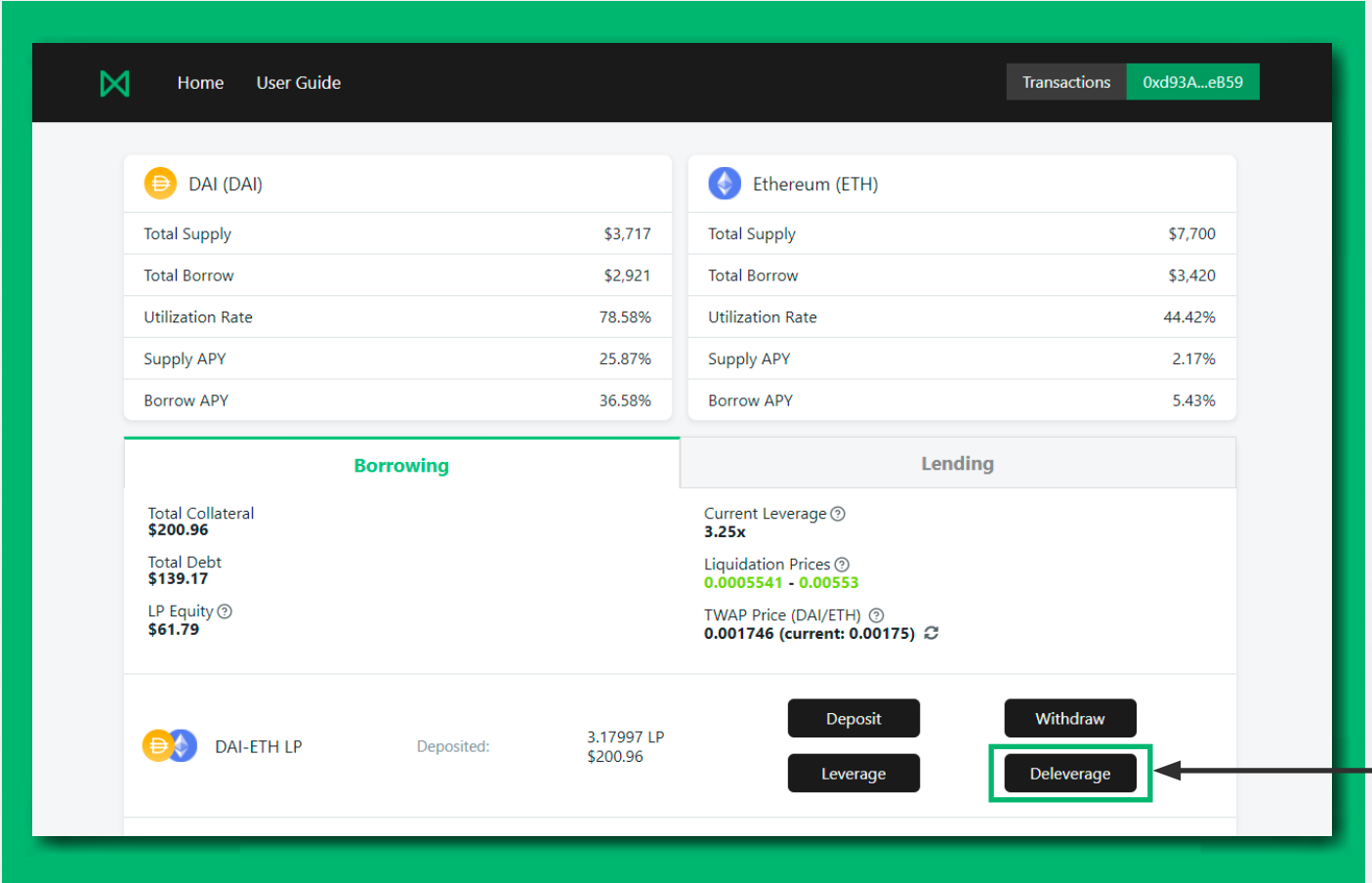
Borrowing	Lending
Total Collateral \$200.96	Current Leverage 3.25x
Total Debt \$139.17	Liquidation Prices 0.0005541 - 0.00553
LP Equity \$61.79	TWAP Price (DAI/ETH) 0.001746 (current: 0.00175)

DAI-ETH LP Deposited: 3.17997 LP \$200.96

Buttons: Deposit, Withdraw, Leverage, Deleverage

How to deleverage your LP tokens

1. Go to the UI page for the desired pair and **click** Deleverage.



The screenshot displays the Impermax web interface. At the top, there's a navigation bar with a logo, 'Home', 'User Guide', 'Transactions', and a user address '0xd93A...e859'. Below this, the main content area is divided into two columns for 'DAI (DAI)' and 'Ethereum (ETH)'. Each column has a table with metrics: Total Supply, Total Borrow, Utilization Rate, Supply APY, and Borrow APY. Below these tables are sections for 'Borrowing' and 'Lending'. The 'Borrowing' section shows 'Total Collateral \$200.96', 'Total Debt \$139.17', and 'LP Equity \$61.79'. The 'Lending' section shows 'Current Leverage 3.25x', 'Liquidation Prices 0.0005541 - 0.00553', and 'TWAP Price (DAI/ETH) 0.001746 (current: 0.00175)'. At the bottom, there's a 'DAI-ETH LP' section with a 'Deposited' amount of '3.17997 LP \$200.96'. To the right of this are four buttons: 'Deposit', 'Withdraw', 'Leverage', and 'Deleverage'. The 'Deleverage' button is highlighted with a green box, and an arrow points to it from the text 'click' in the instruction above.

DAI (DAI)		Ethereum (ETH)	
Total Supply	\$3,717	Total Supply	\$7,700
Total Borrow	\$2,921	Total Borrow	\$3,420
Utilization Rate	78.58%	Utilization Rate	44.42%
Supply APY	25.87%	Supply APY	2.17%
Borrow APY	36.58%	Borrow APY	5.43%

Borrowing
Total Collateral
\$200.96
Total Debt
\$139.17
LP Equity
\$61.79

Lending
Current Leverage
3.25x
Liquidation Prices
0.0005541 - 0.00553
TWAP Price (DAI/ETH)
0.001746 (current: 0.00175)

DAI-ETH LP
Deposited: 3.17997 LP
\$200.96

Deposit

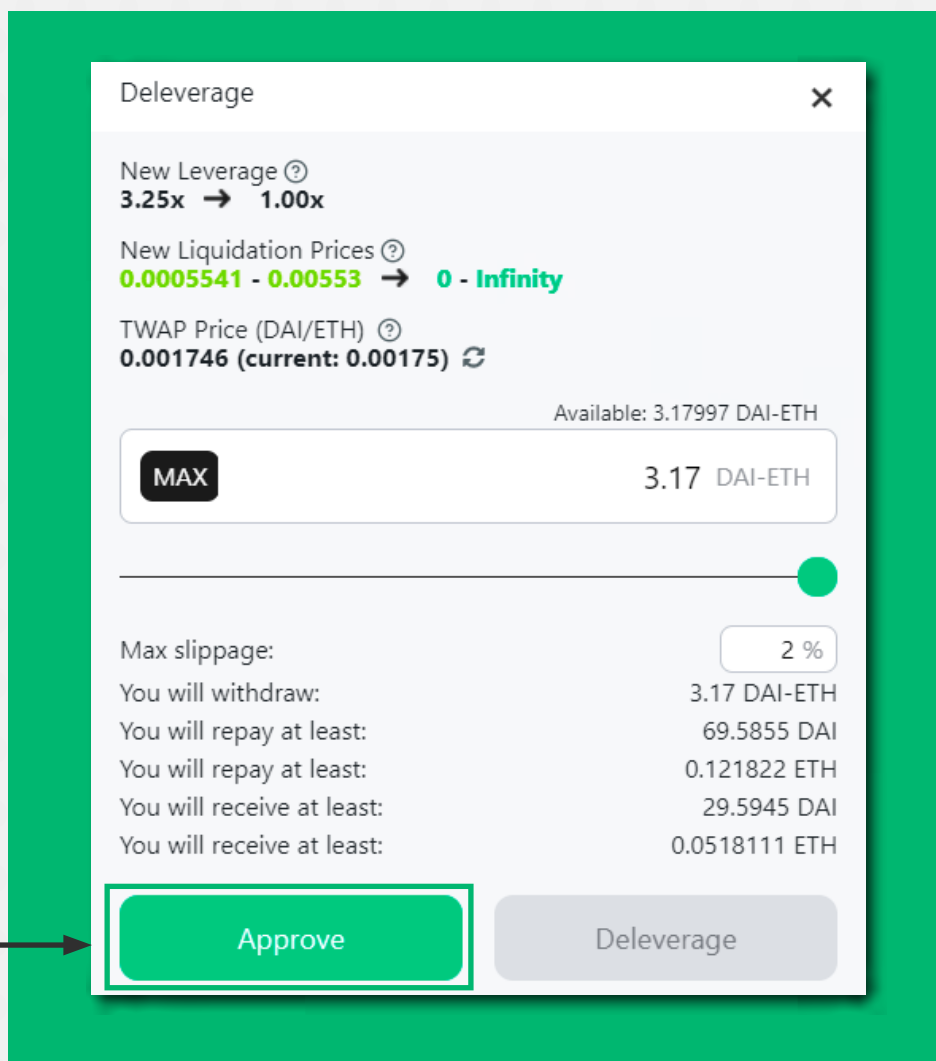
Withdraw

Leverage

Deleverage

2. You'll see a deleverage information window. Use the slider to select the amount of tokens you want to deleverage. Use the MAX button if you don't want dust left over. Then **click** Approve. Then sign the wallet approval.

- Note that when you deleverage, you also withdraw the LP tokens.

A screenshot of a 'Deleverage' window from Impermax. The window has a title bar with a close button. It displays the following information: 'New Leverage' changing from 3.25x to 1.00x; 'New Liquidation Prices' changing from 0.0005541 - 0.00553 to 0 - Infinity; and 'TWAP Price (DAI/ETH)' changing from 0.001746 to 0.00175. Below this, it shows 'Available: 3.17997 DAI-ETH'. A 'MAX' button is next to a text field showing '3.17 DAI-ETH'. A slider is positioned below the text field, with a green dot at the right end. At the bottom, there is a table of transaction details. Two buttons are at the bottom: 'Approve' (highlighted with a green border and a green dot) and 'Deleverage' (disabled). A line with a green dot and an arrow points from the text in the first paragraph to the 'Approve' button.

Deleverage

New Leverage ?
3.25x → 1.00x

New Liquidation Prices ?
0.0005541 - 0.00553 → 0 - Infinity

TWAP Price (DAI/ETH) ?
0.001746 (current: 0.00175) ↻

Available: 3.17997 DAI-ETH

MAX 3.17 DAI-ETH

Max slippage: 2 %

You will withdraw:	3.17 DAI-ETH
You will repay at least:	69.5855 DAI
You will repay at least:	0.121822 ETH
You will receive at least:	29.5945 DAI
You will receive at least:	0.0518111 ETH

Approve Deleverage

3. **Click** Deleverage to confirm and then confirm the transaction in your wallet.

Deleverage

New Leverage ?
3.25x → 1.00x

New Liquidation Prices ?
0.0005541 - 0.00553 → 0 - Infinity

TWAP Price (DAI/ETH) ?
0.001746 (current: 0.00175) ↻

Available: 3.17997 DAI-ETH

MAX

3.17 DAI-ETH

Max slippage:

2 %

You will withdraw:

3.17 DAI-ETH

You will repay at least:

69.5855 DAI

You will repay at least:

0.121822 ETH

You will receive at least:

29.5945 DAI

You will receive at least:

0.0518111 ETH

Approve ✓

Deleverage

How to borrow tokens using LP tokens as collateral

Note that you must have already deposited LP tokens as explained in How to deposit LP tokens.

1. Go to the UI page of the token pair you want to borrow against. Choose the token you want to borrow, and **click** the Borrow button.

The screenshot displays the Impermax interface for borrowing. It is divided into two main sections: 'Borrowing' and 'Lending'.

Borrowing Section:

- Total Collateral:** \$200.96
- Total Debt:** \$139.17
- LP Equity:** \$61.79

Lending Section:

- Current Leverage:** 3.25x
- Liquidation Prices:** 0.0005541 - 0.00553
- TWAP Price (DAI/ETH):** 0.001746 (current: 0.00175)

Token Pairs and Actions:

Token Pair	Type	Amount	Value	Buttons
DAI-ETH LP	Deposited	3.17997 LP	\$200.96	Deposit, Withdraw, Leverage, Deleverage
DAI	Borrowed	69.5855 DAI	\$69.59	Borrow, Repay
ETH	Borrowed	0.121822 ETH	\$69.59	Borrow, Repay

A green box highlights the 'Borrow' button for the DAI token pair, and an arrow points to it from the text 'click' in the instruction above.

2. You'll see a borrowing information window. Use the slider to select the amount you want to borrow and click Approve. Then sign the approval in your wallet.
 - Pay attention to the interest rate shown. You will be paying this amount when you borrow.

Borrow [X]

New Leverage ⓘ
3.25x **6.99x**

New Liquidation Prices ⓘ
0.0005541 - **0.005528** **0.0007178** - **0.001979**

TWAP Price (DAI/ETH) ⓘ
0.001795 (current: 0.001799) ↻

Available: 32.6748 DAI

MAX 32.6 DAI

Borrow Fee: 0.0326 DAI
 Borrow APY: 14.75%

Approve Borrow

3. **Click** Borrow and then Confirm in your wallet.

Borrow [X]

New Leverage ⓘ
3.25x **6.99x**

New Liquidation Prices ⓘ
0.0005541 - **0.005528** **0.0007178** - **0.001979**

TWAP Price (DAI/ETH) ⓘ
0.001795 (current: 0.001799) ↻

Available: 32.6748 DAI

MAX 32.6 DAI

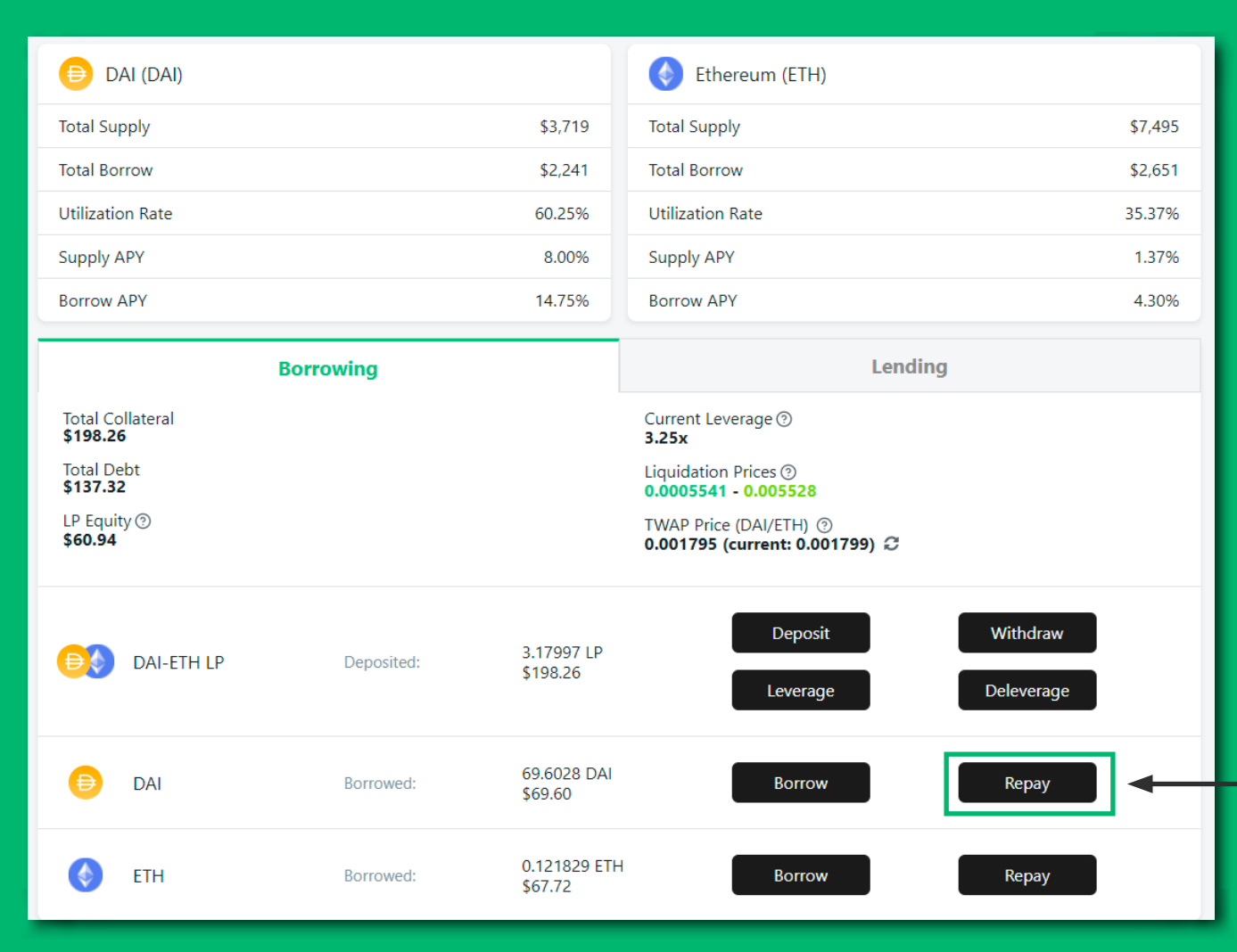
Borrow Fee: 0.0326 DAI
 Borrow APY: 14.75%

Approve ✓ **Borrow**

Return to the pair UI screen to see the amount you borrowed and your leverage.

How to repay borrowed funds

1. Go to the UI for the pair you have borrowed against. **Click** the Repay button.



The screenshot displays the Impermax interface for managing loans. It is divided into two main sections: 'Borrowing' and 'Lending'.

Borrowing Section:

- DAI (DAI):** Total Supply: \$3,719; Total Borrow: \$2,241; Utilization Rate: 60.25%; Supply APY: 8.00%; Borrow APY: 14.75%.
- Ethereum (ETH):** Total Supply: \$7,495; Total Borrow: \$2,651; Utilization Rate: 35.37%; Supply APY: 1.37%; Borrow APY: 4.30%.

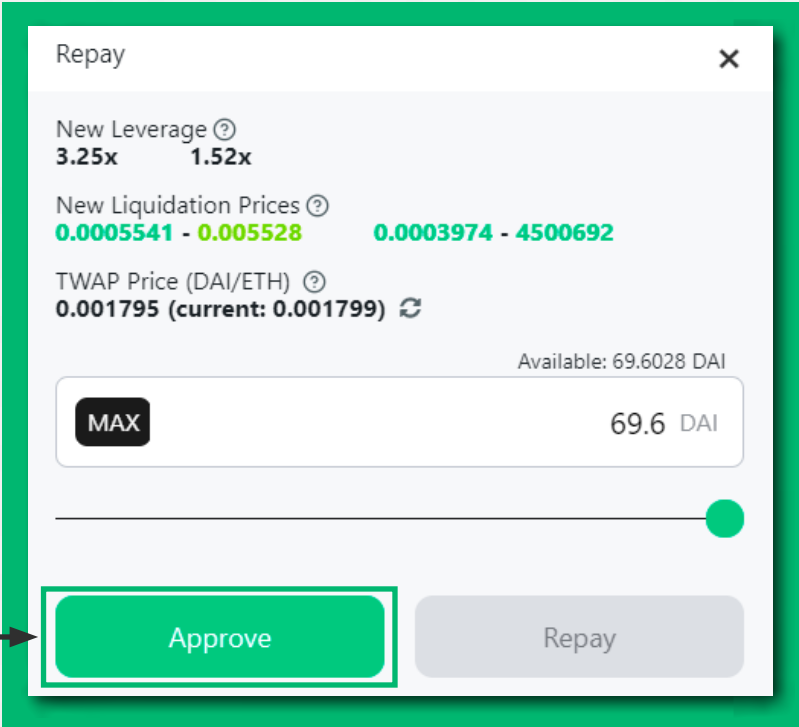
Lending Section:

- Current Leverage:** 3.25x
- Liquidation Prices:** 0.0005541 - 0.005528
- TWAP Price (DAI/ETH):** 0.001795 (current: 0.001799)

Loan Details Table:

Asset	Status	Amount	Buttons
DAI-ETH LP	Deposited:	3.17997 LP \$198.26	Deposit, Withdraw, Leverage, Deleverage
DAI	Borrowed:	69.6028 DAI \$69.60	Borrow, Repay
ETH	Borrowed:	0.121829 ETH \$67.72	Borrow, Repay

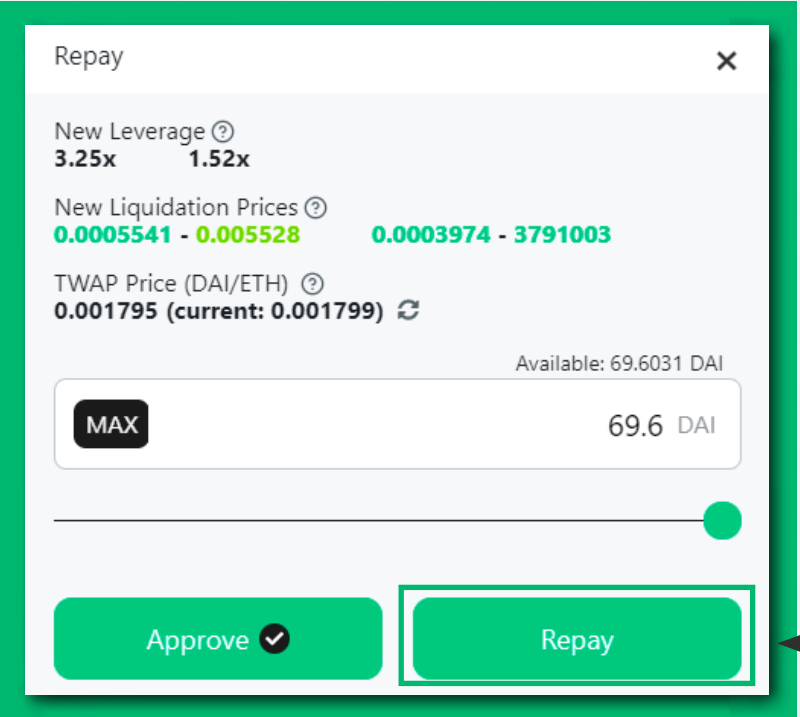
2. You will see the repay information window. Use the slider to select the amount you want to repay. Use the MAX button if you don't want dust left over. **Click** approve and click Confirm in your wallet.



The screenshot shows a 'Repay' window with the following details:

- New Leverage**: 3.25x (selected) and 1.52x (available)
- New Liquidation Prices**: 0.0005541 - 0.005528 (selected) and 0.0003974 - 4500692 (available)
- TWAP Price (DAI/ETH)**: 0.001795 (current: 0.001799)
- Available**: 69.6028 DAI
- Input field**: A button labeled 'MAX' and a text field showing '69.6 DAI'.
- Slider**: A horizontal slider bar with a green dot at the right end.
- Buttons**: A green 'Approve' button (highlighted with a red box) and a grey 'Repay' button.

3. Once the approval is confirmed, **click** Repay and Confirm the repayment in your wallet

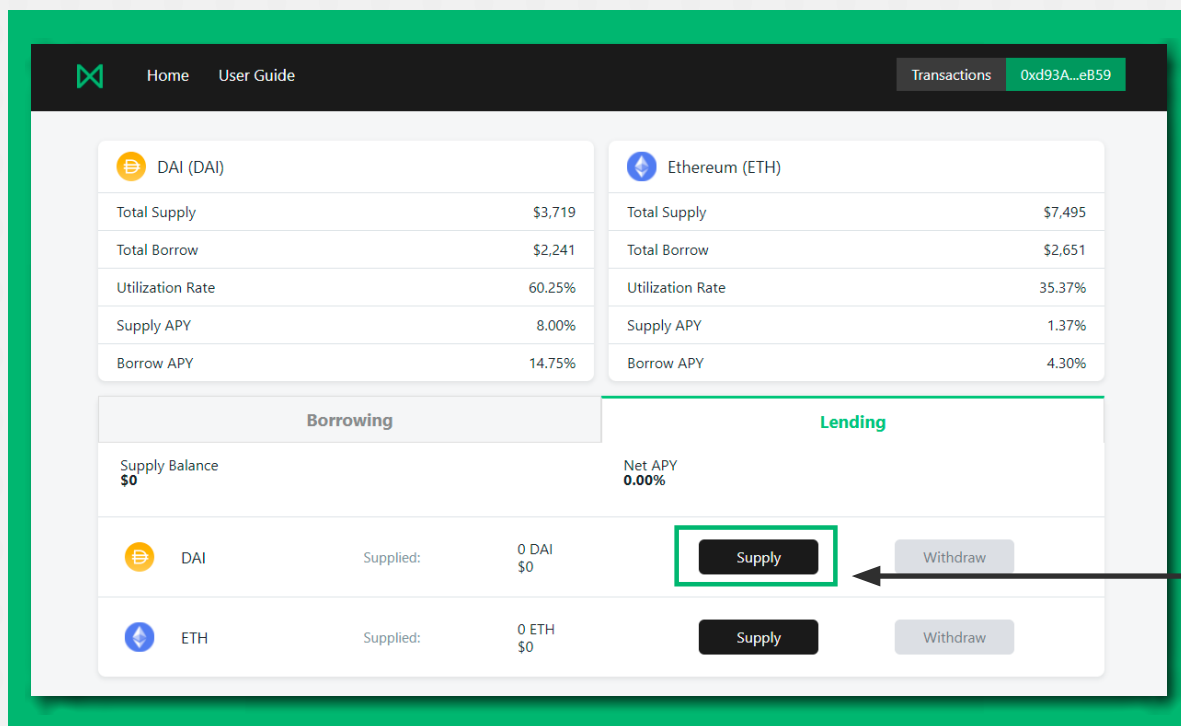


The screenshot shows the 'Repay' window after the 'Approve' action. The details are similar to the previous window, but with some updates:

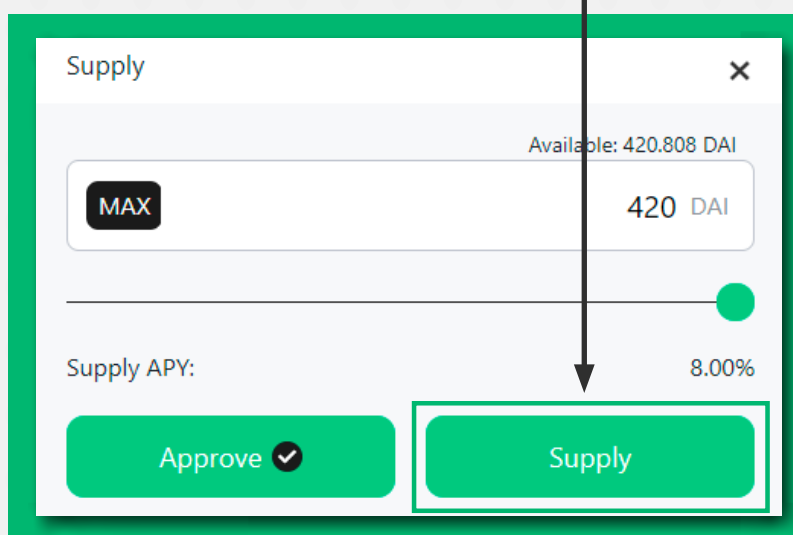
- Available**: 69.6031 DAI
- Buttons**: The 'Approve' button is now green and has a checkmark icon. The 'Repay' button is now green and is highlighted with a red box.

How to earn interest by lending ERC20 tokens

1. Go to the UI page for the pair you want to lend to. In this example we are using DAI/ETH. Click the Lending tab. Then **click** the Supply button for the token you want to lend.



2. You will see a supply information window. Use the slider to select the amount of that token you want to supply for lending. **Click** the supply button and confirm the transaction in your wallet.



How to withdraw ERC20 tokens you have supplied for lending

Note that it's possible you may not be able to withdraw all of your funds at a certain point in time if there isn't enough liquidity in the pool. This is much less likely to happen with high-liquidity pairs, but it's always a risk to be aware of.

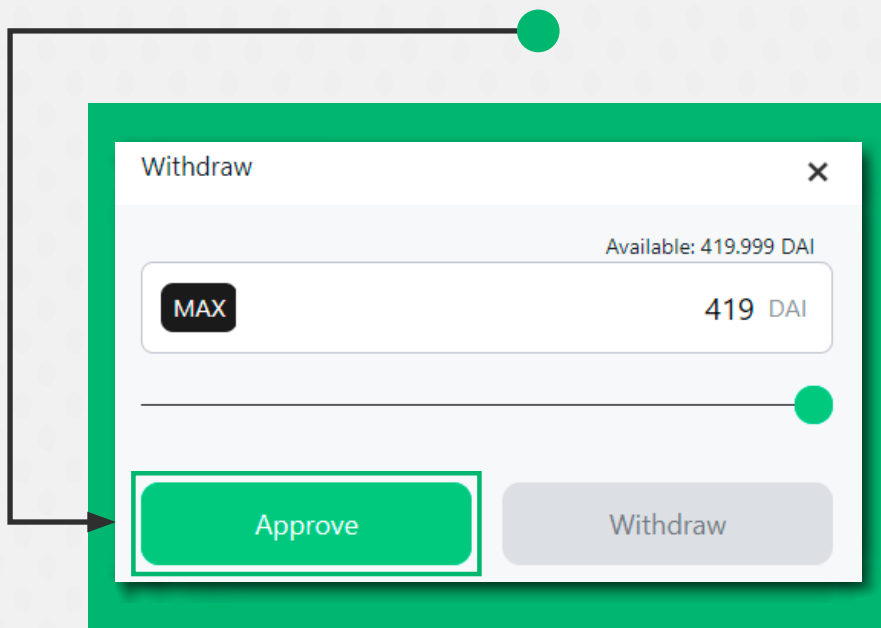
1. Go to the UI screen for the pair you are withdrawing from. **Click** the Lending tab. Then **click** the Withdraw button.

The screenshot shows the Impermax interface with the 'Lending' tab selected. The top navigation bar includes 'Home', 'User Guide', 'Transactions', and a wallet address '0xd93A...e859'. The main content area displays two asset pools: DAI (DAI) and Ethereum (ETH). Each pool has a table with metrics: Total Supply, Total Borrow, Utilization Rate, Supply APY, and Borrow APY. Below these, there are tabs for 'Borrowing' and 'Lending'. The 'Lending' tab is active, showing a 'Supply Balance' of \$420.00 for DAI and a 'Net APY' of 6.45%. At the bottom, there are rows for DAI and ETH with 'Supplied' amounts and 'Supply'/'Withdraw' buttons. The 'Withdraw' button for DAI is highlighted with a green box and an arrow.

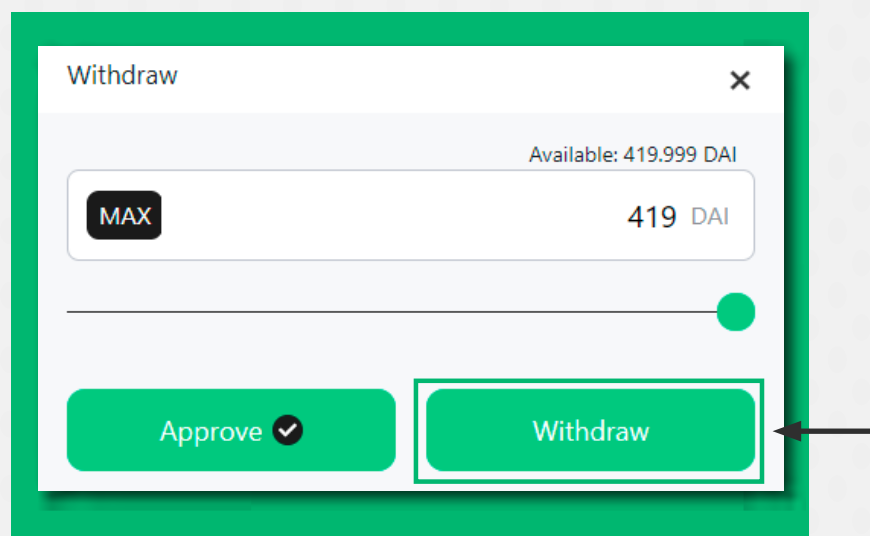
Asset	Total Supply	Total Borrow	Utilization Rate	Supply APY	Borrow APY
DAI (DAI)	\$4,140	\$2,241	54.14%	6.45%	13.24%
Ethereum (ETH)	\$7,523	\$2,661	35.37%	1.37%	4.30%

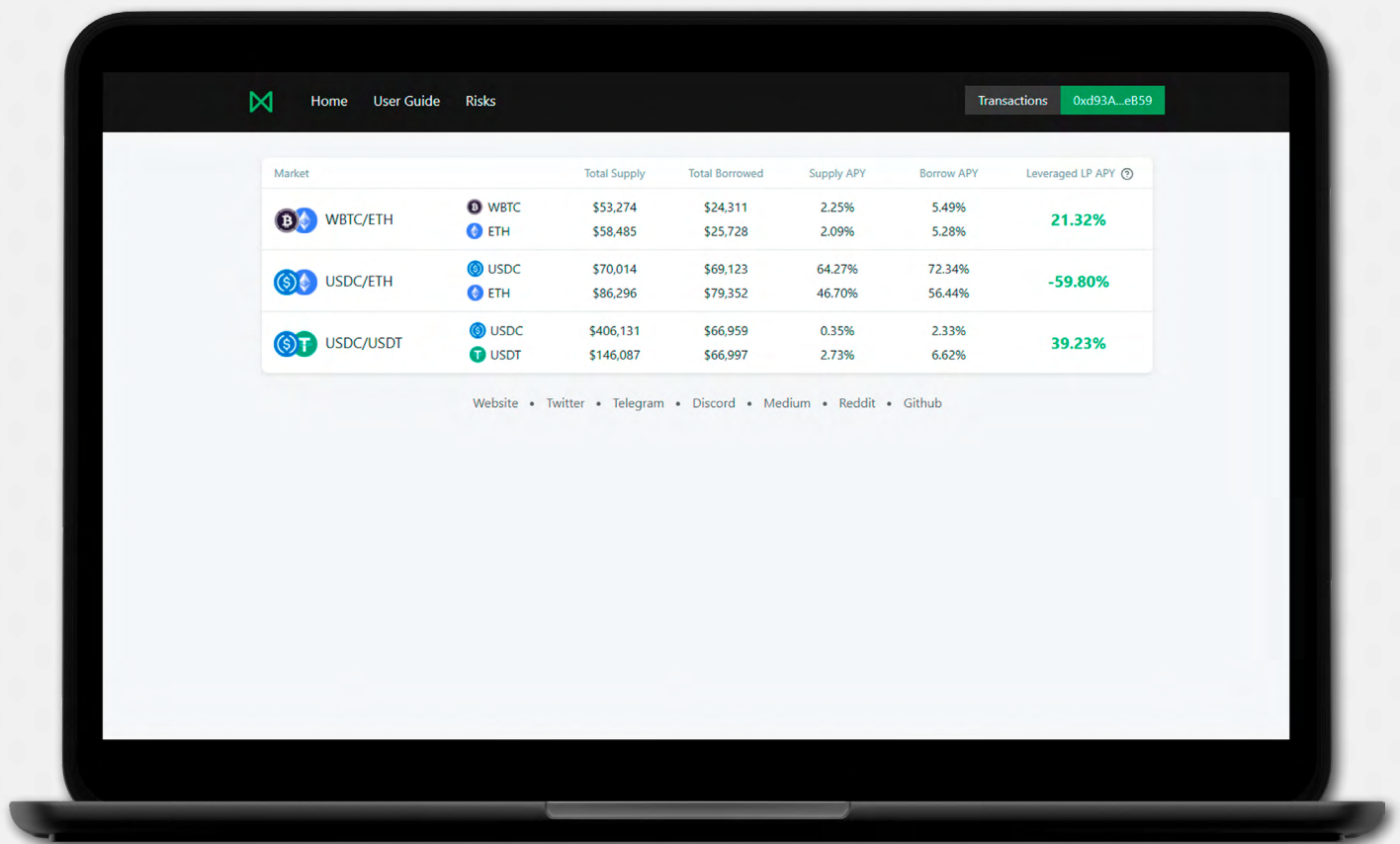
Asset	Supplied	Supply	Withdraw
DAI	420 DAI \$420.00	Supply	Withdraw
ETH	0 ETH \$0	Supply	Withdraw

2. You'll see a withdraw information window. Use the slider to select the amount to withdraw. Use the MAX button if you don't want dust left over. Then **click** Approve and then sign in your wallet.



3. When the Withdraw button lights up, **press** it and then confirm the transaction in your wallet.





Launch App

