## **Getting started**

Installation Install the package with npm in your terminal: npm install @makerdao/dai Once it's installed, import the module into your project as shown below. Copy importMakerfrom'@makerdao/dai'; // or constMaker=require('@makerdao/dai'); Multi-Collateral Dai support in Dai, is is implemented as aplugin. This may change in the future. The MCD Plugin is also available as annom package and its source code can be found or Github. npm install @makerdao/dai-plugin-mcd Copy import{ McdPlugin }from'@makerdao/dai-plugin-mcd'; // or const{McdPlugin}=require('@makerdao/dai-plugin-mcd'); (Note the default at the end of the line when using require .) UMD This library is also usable as a <u>UMD module</u>, which you can build withnpm run build:frontend. Copy **Quick Examples** Look up information about a vault This code usesgetCdplds to look up a vault that was created in the asis Borrow UI. Since this code is only reading data, not creating any transactions, it is not necessary to provide a private key or connect a wallet. Copy // you provide these values constinfuraKey='your-infura-api-key'; constownerAddress='0xf00...'; constmaker=awaitMaker.create('http',{ plugins:[McdPlugin], url:https://mainnet.infura.io/v3{infuraKey} }); constmanager=maker.service('mcd:cdpManager'); constproxyAddress=maker.service('proxy').getProxyAddress(ownerAddress); constdata=awaitmanager.getCdplds(proxyAddress);// returns list of { id, ilk } objects constvault=awaitmanager.getCdp(data[0].id); console.log([ vault.collateralAmount,// amount of collateral tokens vault.collateralValue,// value in USD, using current price feed values vault.debtValue.// amount of Dai debt vault.collateralizationRatio.// collateralValue / debt vault.liquidationPrice// vault becomes unsafe at this price ].map(x=>x.toString());

Create a vault

The code below opens a Vault, locks ETH into it, and draws out Dai.

Since this code sends transactions, it requires an account that can sign transactions. The simplest way to do this is to provide aprivateKey configuration option as shown below, but you can also connect to Metamask or other browser-based providers, or connect to hardware wallets.

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Copy importMakerfrom'@makerdao/dai'; import{ McdPlugin,ETH,DAI }from'@makerdao/dai-plugin-mcd';

// you provide these values constinfuraKey='your-infura-api-key'; constmyPrivateKey='your-private-key';

constmaker=awaitMaker.create('http',{ plugins:[McdPlugin], url:https://mainnet.infura.io/v3{infuraKey}, privateKey:myPrivateKey});

// verify that the private key was read correctly console.log(maker.currentAddress());

// make sure the current account owns a proxy contract; // create it if needed. the proxy contract is used to // perform multiple operations in a single transaction awaitmaker.service('proxy').ensureProxy();

// use the "vault manager" service to work with vaults constmanager=maker.service('mcd:cdpManager');

// ETH-A is the name of the collateral type; in the future, // there could be multiple collateral types for a token with // different risk parameters constvault=awaitmanager.openLockAndDraw( 'ETH-A', ETH(50), DAI(1000) );

console.log(vault.id); console.log(vault.debtValue);// '1000.00 DAI'

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In the next section, learn more about how to configure the Maker instance with Maker.create . Or jump to learning more about accounts  $\underline{,vaults}$ ,  $\underline{proxies}$ , and  $\underline{currency}$  units .

Integration Examples

For larger examples of integrating this library, check out thisepo and the Dai react template.

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