



# Mint Transactions Overview

## ERC721 Mint transactions

Adding an ERC721 asset to a collection is commonly known as "minting" that asset.

You can mint assets by running a mint transaction. You can perform this transactions through the [Myria SDK](#). After the assets are minted, you can use them in your project or game, or show them together with other items in a collection.

Currently, Myria supports mint transactions for ERC721 tokens (also known as NFTs). An ERC721 token is used to identify something in a unique way. You can read more about ERC721 tokens [here](#). Upcoming versions of Myria's developer platform will include support for fungible ERC20 tokens.

## Creating ERC721 mint transactions

### Prerequisites

- Generate a Web3 public key and Stark Key, and register your developer account entity as described in the [quickstart](#)
- Create a project as described [here](#)
- Create a collection as described [here](#)

## ERC721 minting flow

1. Run a script to submit a new mint transaction
2. Myria will attempt to mint an asset based on the data provided
  - If the mint succeeds, the asset status is set to `MINTED`, and Myria creates a transaction with `Prepare` status. When a transaction is confirmed on the Myria chain, its status is set to `Success`
  - If the mint fails, Myria returns an asset object with `MINT_FAILED` status. No asset is minted and transaction details are not included

## Asset Token Id

Each asset has a `tokenId` that represents a unique identifier of that asset within the collection. If you provided the correct `metadataApiUrl format` as an argument when you were creating a collection, then you will be able to access your minted asset via the following URL structure:

`URI/TOKEN_ID`

- `URI` - `metadataApiUrl` from a given collection
- `TOKEN_ID` - unique token identifier of the mintable asset within that collection, should be an incremental value

See an example here:

`https://gateway.pinata.cloud/ipfs/QmSjWbBS3rPu5K2TnhyXmwGE1GcVZMRFKg5K3iMI`

## Limitations

The following are known limitations for all mint transactions:

- You can create a maximum of 50,000 mint transactions per collection every month.
- A mintable asset has to belong to a collection and cannot be removed after it's created.
- You cannot perform a mint transaction if the collection's contract doesn't implement the `mintFor()` function.
- The mintable assets should follow the `ERC721 standard`.
- Each `tokenId` should be unique. If a non-unique `tokenId` is submitted you won't be able to mint your asset.