# 631.https://stackoverflow.com/questions/69064306/on-chain-nft-how-to-store-a-pixel-image-on-the-ethereum-blockchain

**T:**On-Chain NFT: How to store a pixel image on the ethereum blockchain?

**Q:**I have a finished art project and I am looking for a way to store the data on-chain. Like deafbeef for example. The source of my generated 6x6 pixel images are pictures, so I cannot recreate them by code. I guess I have to store their raw data in some form on-chain.  
  
I am new to blockchain stuff. I know that tokens are stored on the chain, I have minted some artworks on hen and opensea, but I generally do not understand how it all works in the background.  
  
Can you recommend some well explained tutorials or articles on this topic?  
  
Thank you!

1 **Answer**

**A1:**Any reason why they need to be stored on-chain?Normally images are stored off chain to reduce the cost of transactions.  
  
You can upload the image onto ipfs via pinata and then create a json file that point to it and upload that through pinata as well. The tokenURI would then be that json file.  
  
For example,  
  
TokenURI=ipfs://<json\_file\_hash>"  
  
WARN: THIS PARAGRAPH CONTAINS TAG: [CODE]   
  
Then in your JSON file:  
  
{ "image": "<image\_file\_hash>"}  
  
WARN: THIS PARAGRAPH CONTAINS TAG: [CODE]

**C1:**The reason to store on-chain is to ensure the longevity of the NFT image (artwork) asset and in turn, allow the token to hold its "value". With off-chain assets, there's always a risk that the NFT metadata will refresh and try to access a resource that may no longer exist... ie the NFT metadata API or image asset bucket could be taken offline...