

DigitalTechne documentation

Release 0.2

the Digital Techne Team

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Table of Contents

1	Dossier	1
2	Dossier Detail	3
3	Artwork Mark	5
4	Verify	7

Dossier



This page will show you the artworks hosted on DigitalTechne. They are divided in two sections:

- Artworks that you own
- Publicly available artworks

For both sections the data shown is the same: the main information about the opera (title, author and so on), along with a picture

Clicking on a picture will lead you to the detailed information [Chapter 2](#)

A green check icon will indicate that the DNA ink has already been placed on the opera and the genomic record has been recorded in BlockChain

Dossier							
Personal Files							
Opera Image	Author	Work Name	Opera type	Opera Location	Private	Nft Id	DNA mark present
	Henri de Toulouse Lautrec	Le Jockey	CANVASS	Albi, Musée Toulouse-Lautrec	true		✗
Rows per page: 100 1-1 of 1 < >							
ADD AN OPERA DOSSIER							
Public Dossiers							
Opera Image	Author	Work Name	Opera type	Opera Location	Private	Nft Id	DNA mark present
	Henri de Toulouse Lautrec	Au salon de la Roue des Mou...	CANVASS	Albi, Musée Toulouse-Lautrec	false		✓
Rows per page: 100 1-1 of 1 < >							

Dossier Detail






This page will show you all the information about the artwork:

- detailed information
- a collection of documents

Clicking on each document icon you can download the file, or show the image in full resolution


The button **Mark Artwork with DNA Ink** will allow you to register the association among the ink on the physical artwork and its digital representation (the information shown in this page). See details there: [Chapter 3](#)

When the Dna mark is already registered, a different button will appear: **Verify DNA mark**. It will allow you to verify the authenticity of the mark. The descriptive page is here [Chapter 4](#)

Dossier Detail



Image



Id	1
Owner	2vxsx-fae
Name of the work	Au salon de la Roue des Moulins
Author	Henri de Toulouse Lautrec
Opera type	CANVASS
Support Type	
Opera Location	Albi, Musée Toulouse-Lautrec
Reserved	
DNA mark present	×

MARK ARTWORK WITH DNA INK

Documents

Opera Image	Author	Document Type	Title	File name	Type
	Robert Capa	2vxsx-fae	first photography	Au_salon_sepia80.jpg	image/jpeg
	Federico Zeri	2vxsx-fae	Artwork Attribution	Au_salon_attribution.pdf	application/pdf

Rows per page: 100 1-2 of 2 < >

NEW DOCUMENT

Artwork Mark


Initially you have to put the ink on the artwork. The position is important, you have to specify it later. After usage the cartridge will be useless, the DNA material will be destroyed by a chemical reaction, in order to avoid unwanted further usage



And then the blockchain operation:

- select from the first pull down menu the identifier of the ink cartridge
- select from the second pull down menu the artwork side (front, back or frame)
- select from the third pull down menu the drop position

ArtworkMark



DNA Code

Mark Side

Mark Position

mark_duif_code

b1dc49ea-047b-4465-9afe-51f0... ▼

mark_side

front

mark_position

top_left ✕

INSERT

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At the end of this blockchain operation a green check mark will appear in the opera documentation

6

Chapter 3. Artwork Mark

Verify

An important feature of the system is the ability to verify the correctness of the association. In any moment you can prove that the physical artwork is correctly tied to the information in blockchain.

The control, although not real time, can be easily done:

- using a swab you collect a small amount of the DNA material from the physical artwork
- let a laboratory analyze the specimen
- load the laboratory results on DigitalTechne
- have a look at the differences

Verify operation on DigitalTechne is shown here:

- upload the file with the laboratory results
- select from the first pull down menu the artwork side (front, back or frame)
- select from the second pull down menu the drop position

VerifyMark

DNA Record (XLS) *

MarkSide

PosizioneDNA

Insert DNA

Scegli file

mark_side

front

Locl, alleli ed ...odificato.xlsx

mark_position

top_center

×

VERIFY

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The result is a page that will show the genomic details, where the differences will be highlighted. Moreover, the system will show also the possible differences of the ink position on the artwork

```
62   {
63     Locus: "D18S51",
64     Alleli: "7, 9, 10, 10.2, 11, 12, 13, 13.2, 14, 14.2, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27",
65     Esempio di un profilo DNA: 9.25
66   },
67   {
68     Locus: "Amelogenin",
69     Alleli: "X, Y",
70     Esempio di un profilo DNA: "X,Y"
71   },
72   {
73     Locus: "D5S818",
74     Alleli: "7, 8, 9, 10, 11, 12, 13, 14, 15, 16",
75     Alleli: "7, 8, 9, 10, 11, 12, 13, 14, 15, 17",
76     Esempio di un profilo DNA: 12.15
77   },
78   {
79     Locus: "FGA",
80     Alleli: "17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 26.2, 27, 28, 29, 30, 30.2, 31.2, 32.2, 33.2, 42.2, 43.2, 44.2, 45.2, 46.2, 47.2, 48.2, 50.2, 51.2",
81     Esempio di un profilo DNA: "20,26.2"
82   },
83   {
84     mark_location: "front top_left",
85     mark_location: "front top_center"
```