

Let's make holograms

Artur Sobczyk, Rene Alimisi, Chrissa Papasarantou

info@edumotiva.eu | info@holomakers.eu



What is a hologram?

Holography & holograms

What is Holography: is the recording technique of the waves of light emitted by an object.

Hologram is created when the aforementioned waves of light are recorded on a light-sensitive material.

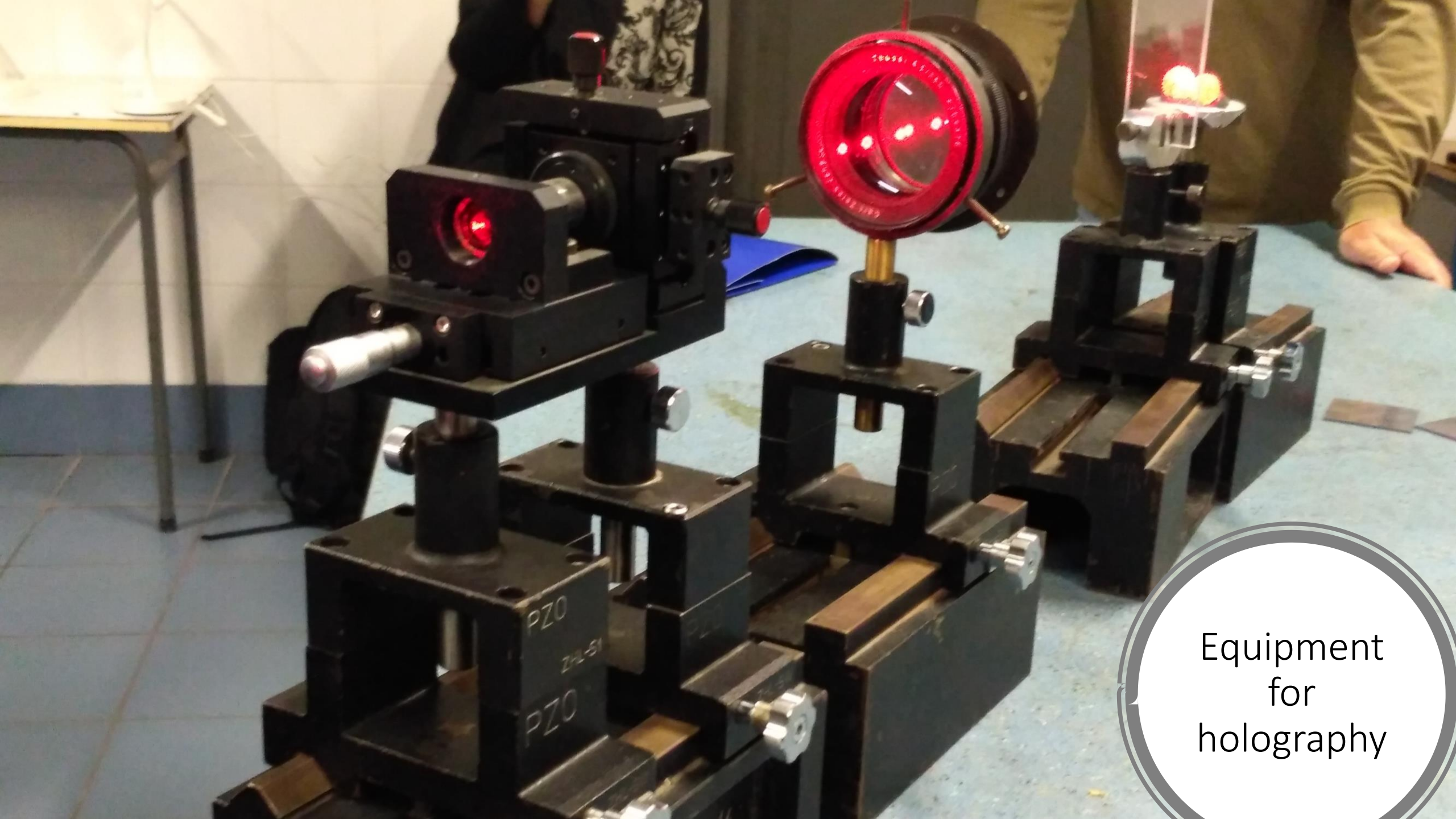
A **hologram** is the three-dimensional replica of an object on a two-dimensional surface.



How does a holography
lab look like;



Holography lab at Warsaw University of Technology



Equipment
for
holography



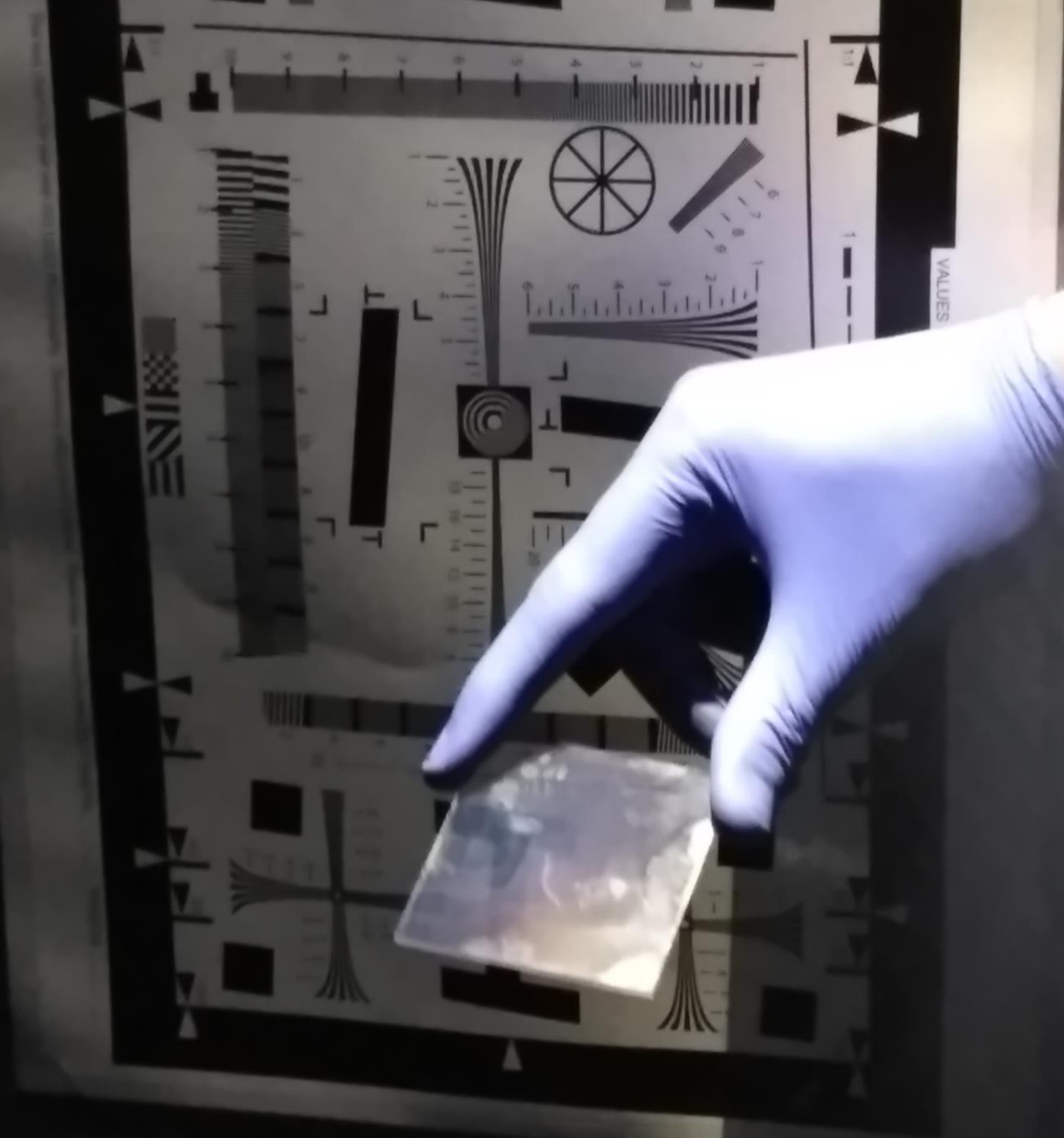
Using
chemicals to
develop
holographic
film



Using
chemicals to
develop
holographic
film



Our
hologram!



Mission
accomplished!



Tools for making holograms

We will need

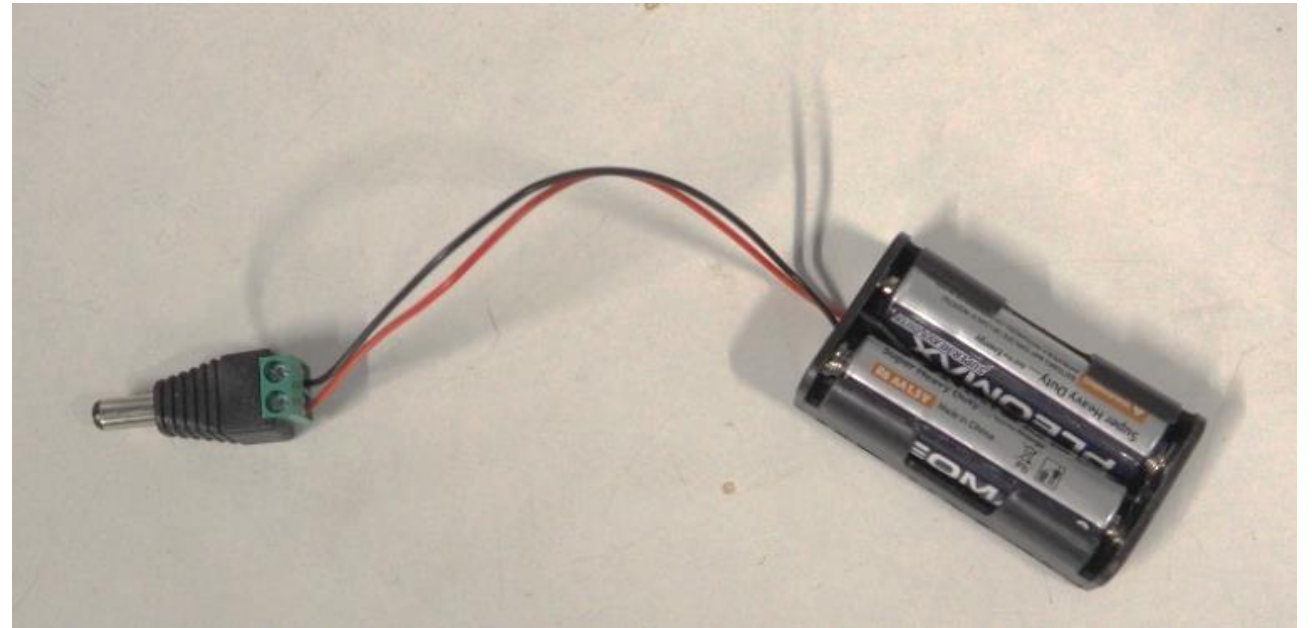
- A low frequency laser diode
- Batteries
- Light-sensitive material (holographic film)
- A setup that will ease the hologram recording



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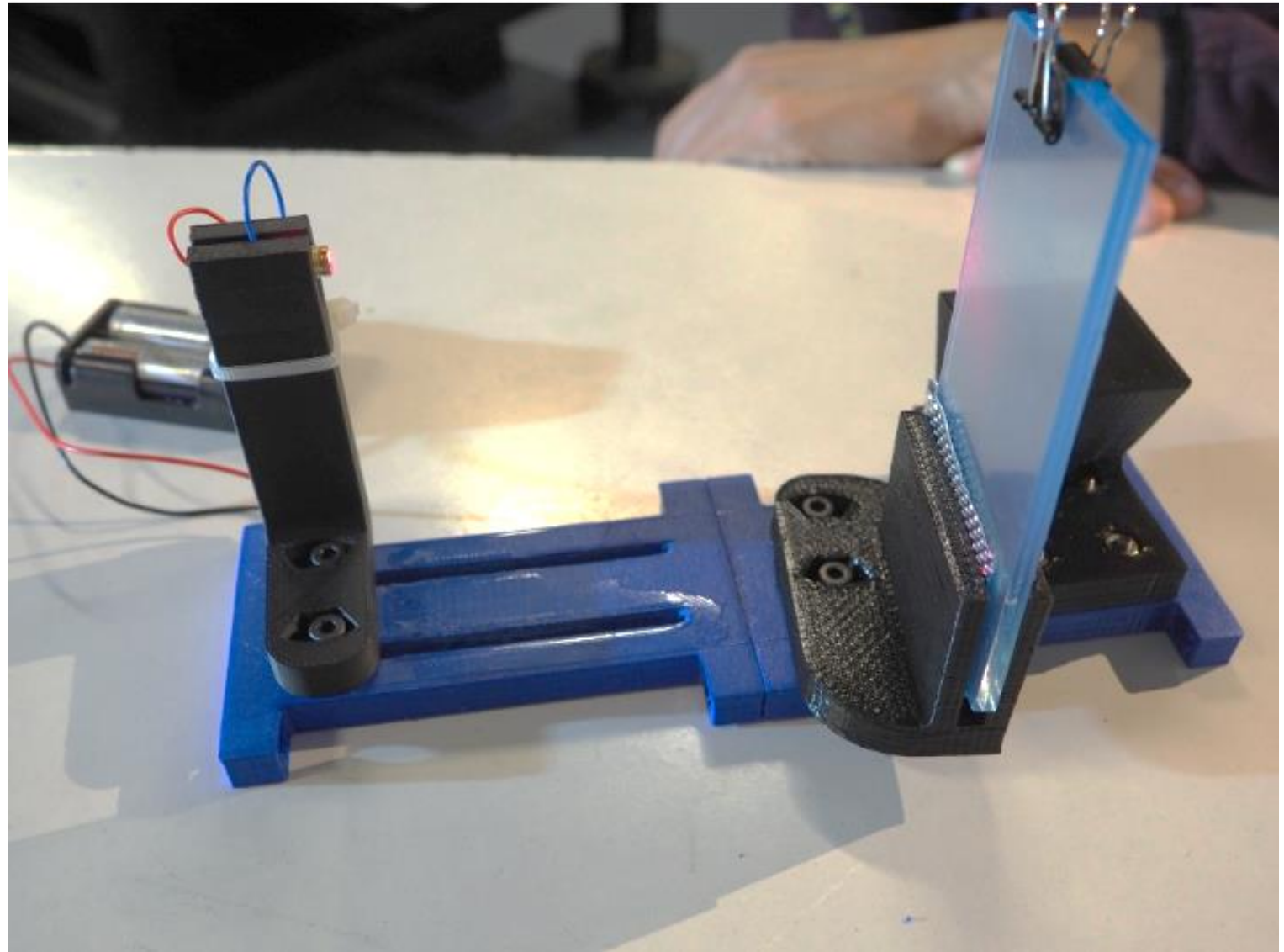
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Tools for making holograms

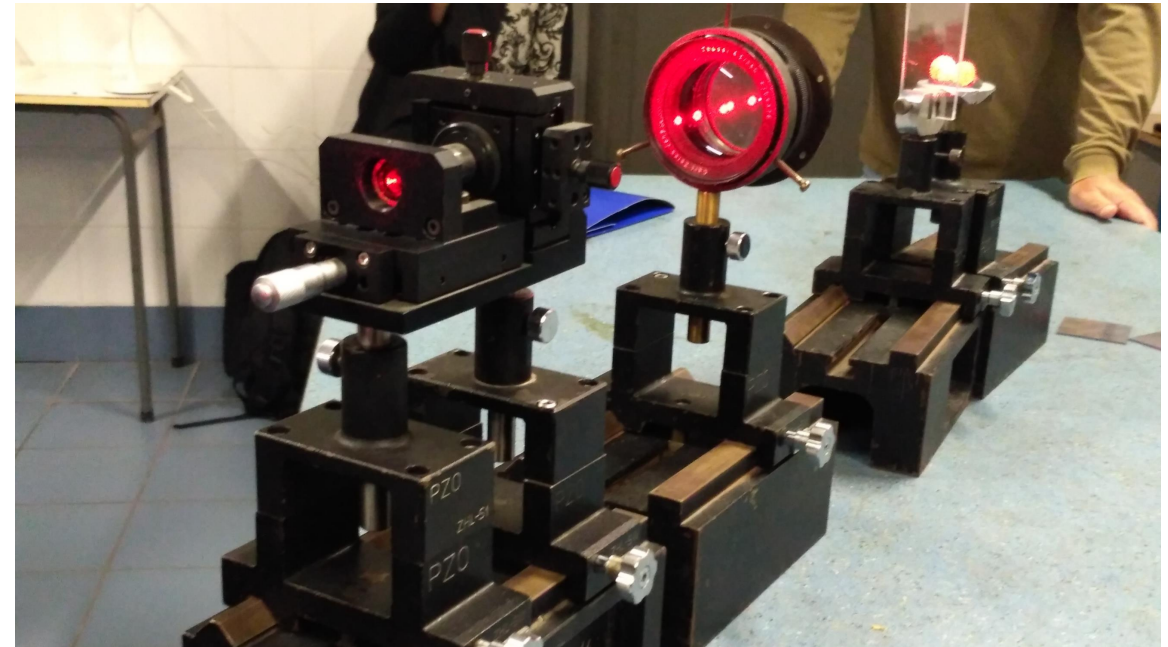
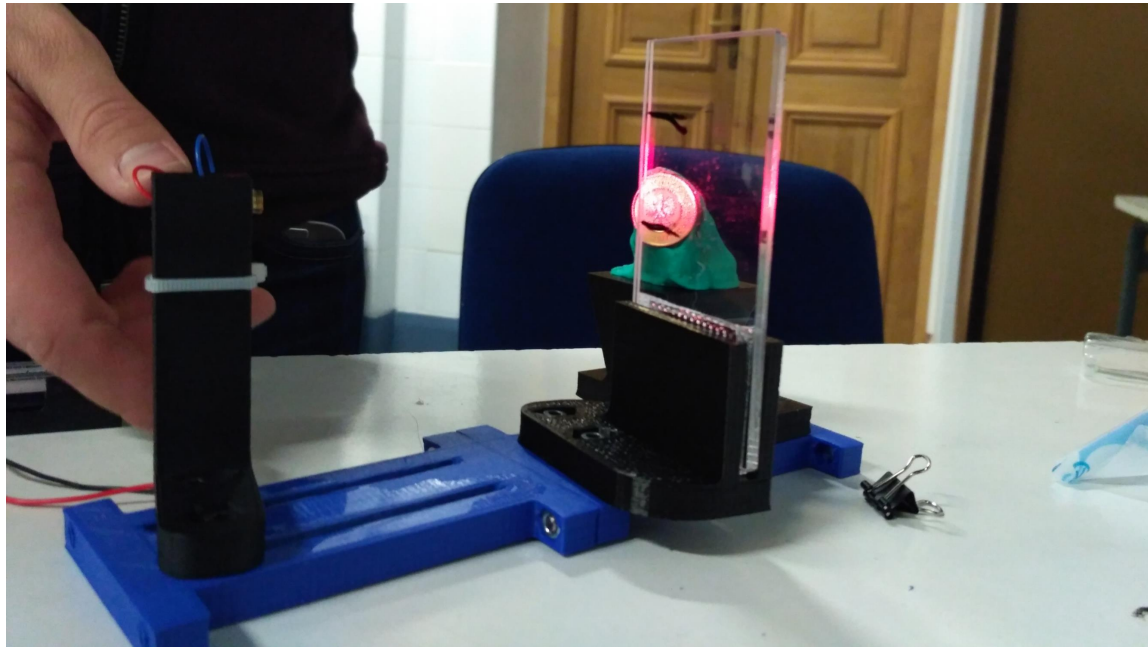
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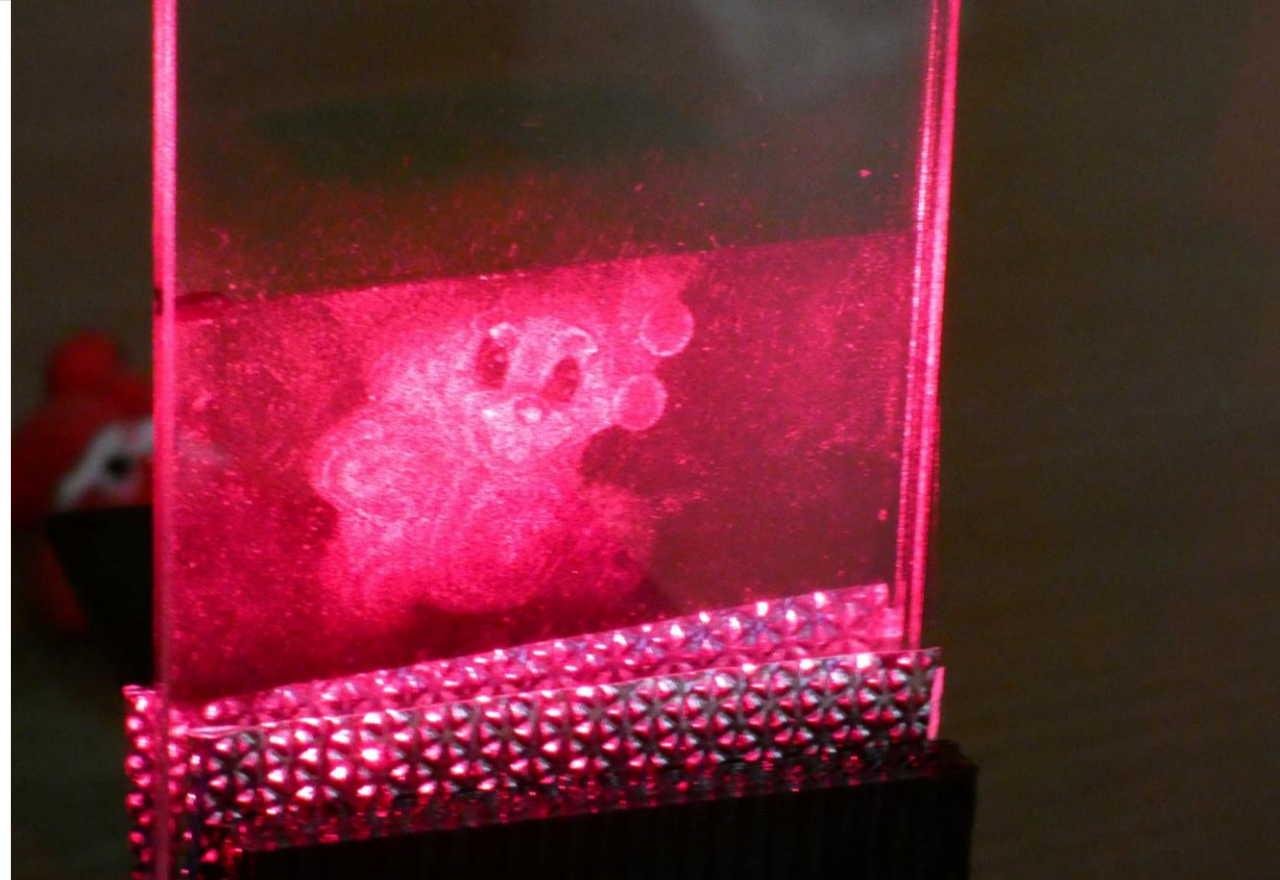
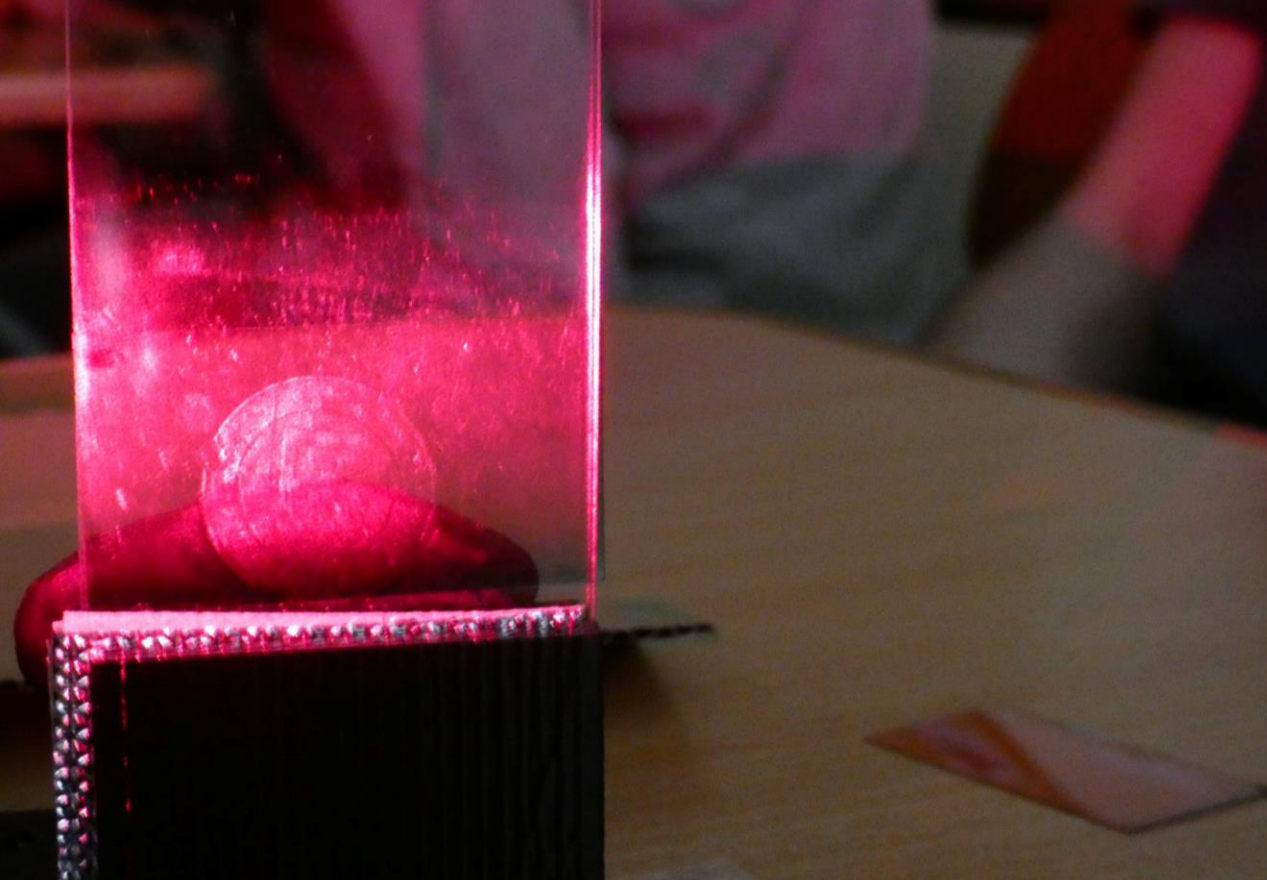
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Equipment for holography





Examples of results

Are you ready for
hologram making?

<https://youtu.be/4lwSLHOQpWM>



Applications of
holography

Any ideas?

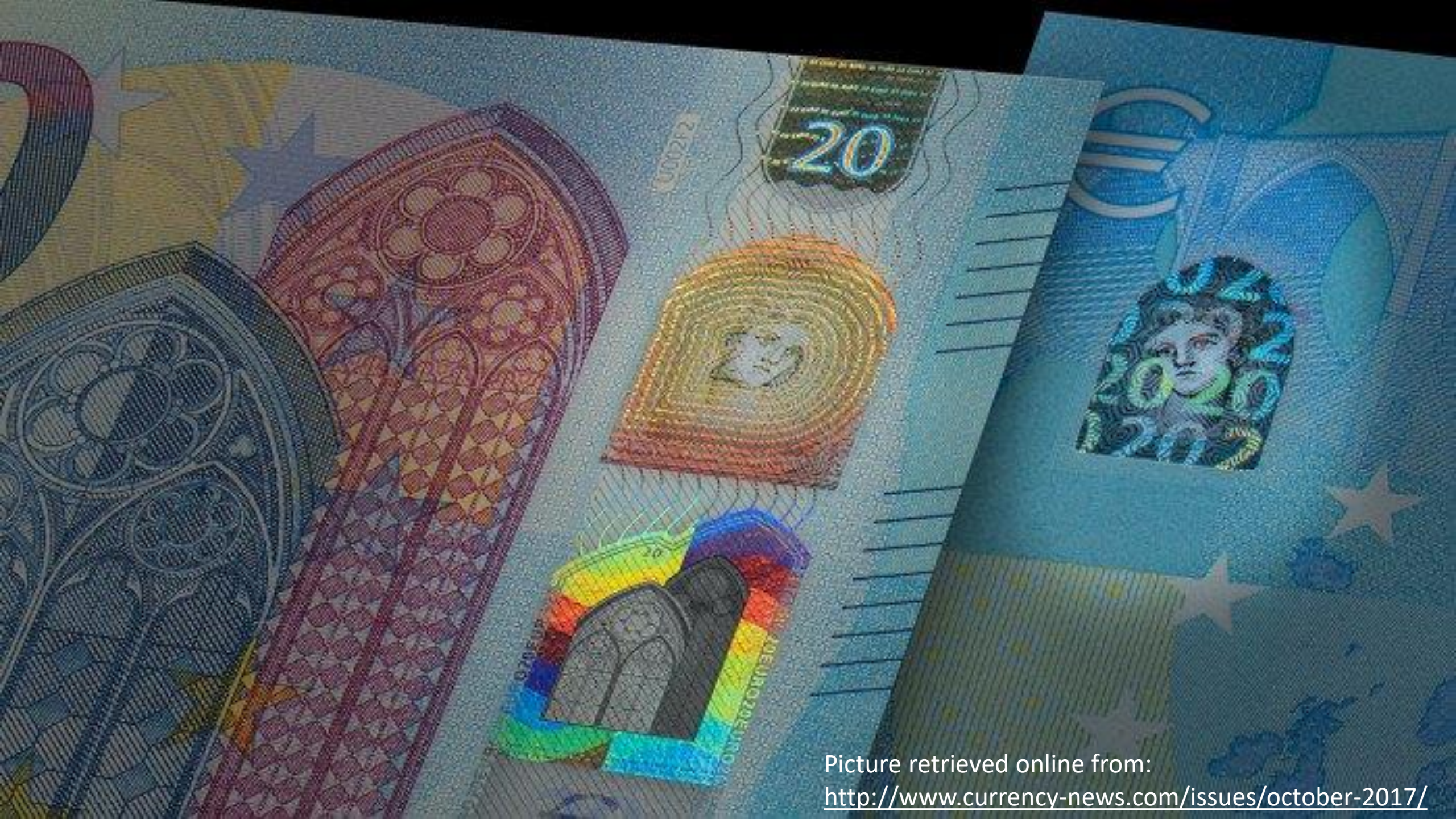
Optoclone
created by
the Hellenic
Institute of
Holography

<https://www.youtube.com/watch?v=GgcVXzlgldY>



Picture retrieved online from:

<https://amp.businessinsider.com/images/59ba3324ba785e5f025bc7cf-750-375.jpg>



Picture retrieved online from:
<http://www.currency-news.com/issues/october-2017/>



Arthur J. Gallagher
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ALEX FOSTER



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Holography & holograms

Thank you very much!

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