

Citizen Science with the Zooniverse

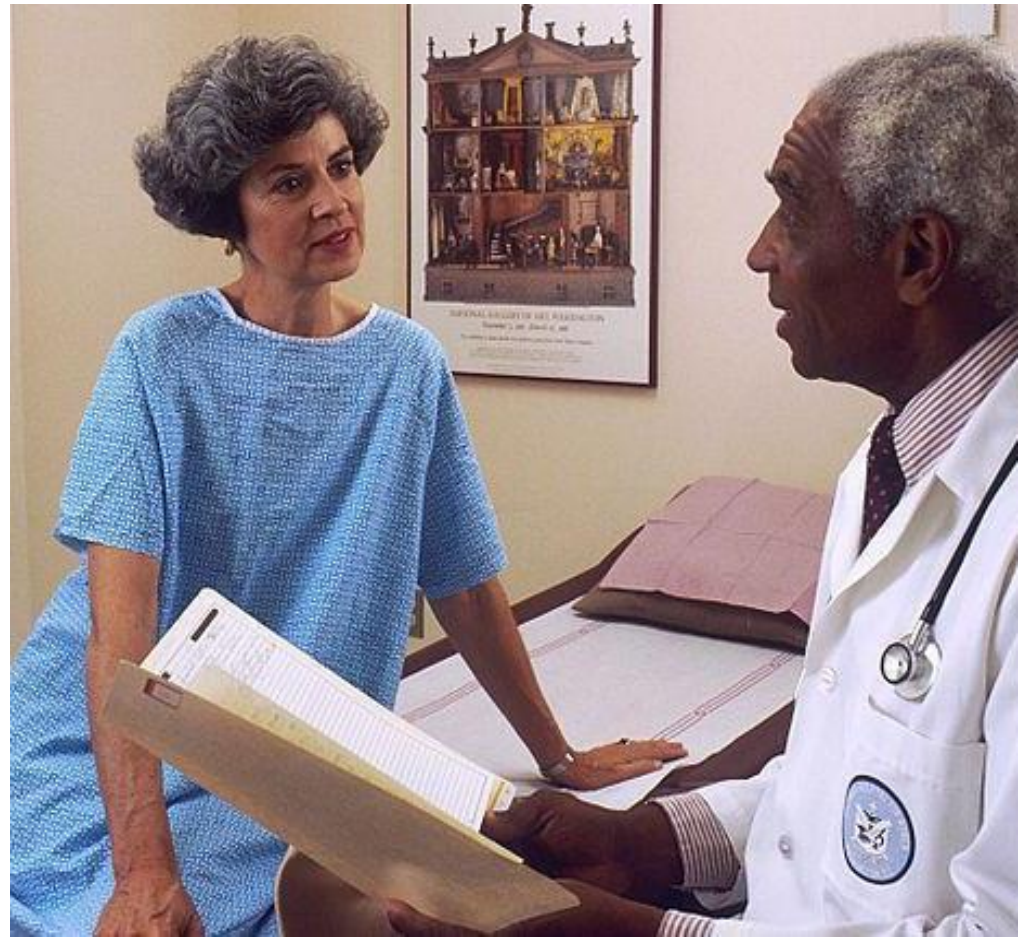


What is citizen science?

- The term “**citizen science**” refers to scientific research that is conducted by **ordinary people (non-scientists)**
- Usually, it involves people working with **professional scientists**

Citizen Science Example

medical
research



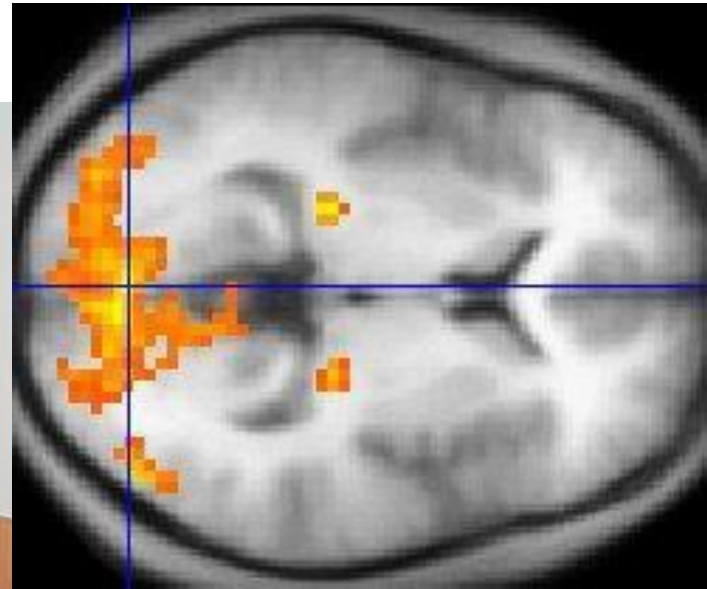
Citizen Science Example



**medication
testing**

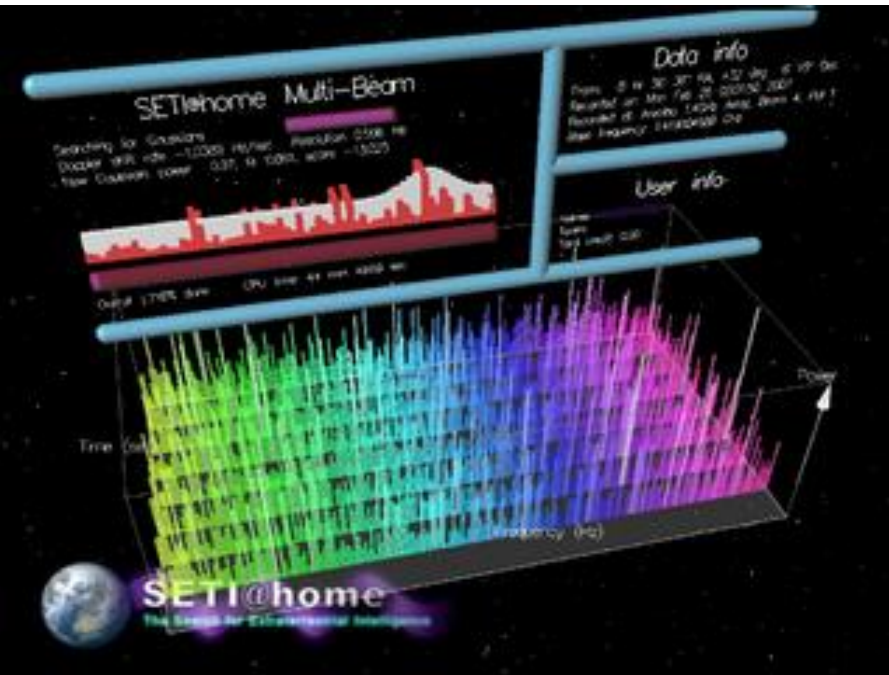


Citizen Science Example



**psychology
research**

Citizen Science Example



using your computer to perform
scientific calculations

Citizen Science Example



helping to
classify
data...
such as:
Zooniverse

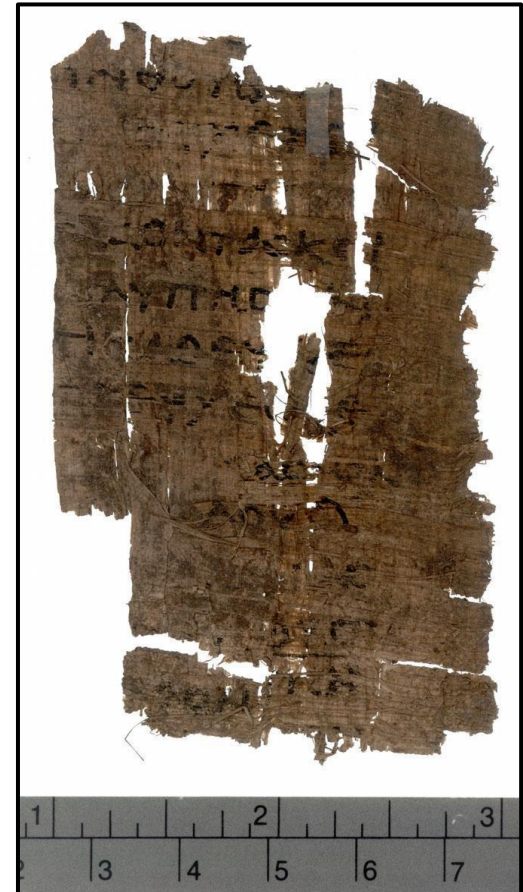
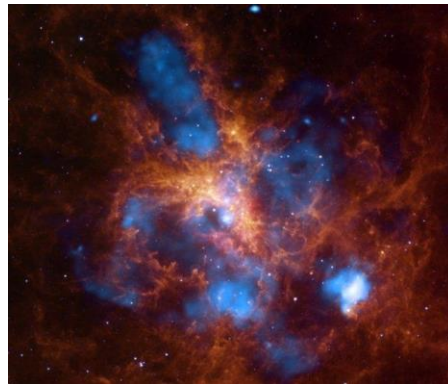
Help me classify some galaxies at [Galaxy Zoo](#)

Zooniverse History

- Started in 2007 with Galaxy Zoo
- Watch recap [YouTube video](#) (1:28-minutes)
- Galaxy Zoo was so successful that the idea was expanded into the **Zooniverse**
- The Citizen Science Alliance (CSA) develops and maintains the Zooniverse
- The CSA works with partners such as universities to create new Zooniverse projects
- Zooniverse has **more than 800,000 people** helping scientists to classify all kinds of data

What is Zooniverse?

- A portal to many research projects that are suitable for average citizen help
- Projects **to classify**: ocean life, weather, ancient writings, astronomy and more...



Activity Steps

- Get a **worksheet**
- Go to the Zooniverse website
- Explore a Zooniverse project and answer the worksheet questions
- Some answers may require **reasoned inference** because the website won't say exactly...
- After 25 minutes, we will discuss everyone's worksheet answers

Demonstration

<https://www.zooniverse.org/>

ZOONIVERSE

Questions before getting started?



Let's try it!

www.zooniverse.org



Review and Discussion

- 1. Which project did you pick?**
- 2. What was your impression of the classification process?**
- 3. What does your project monitor and how?**
- 4. Why is it being monitored?**
- 5. How does this research project benefit society?**
- 6. What change or feature could be made to the research project to improve it?**

References

"Citizen Science." Scientific America. Scientific America, n.d. Web. 15 Jul 2013. <http://www.scientificamerican.com/citizen-science/>

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