

- What is Raumschiff (Spaceship)?
- The idea behind Raumschiff
- Examples: Workshops and Open Space
- What we learned



ASTRONOMY MUSEUMS, VISITOR CENTRES & PUBLIC OBSERVATORIES WORKSHOP, 27-29 SEPTEMBER 2017, LEIDEN, NL



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Raumschiff – The Maker-Space for Astronomy



- Open We-Sa afternoons and during events
- Drop in, drink something, talk to a scientist, check out the latest data tools on the computers, look at astronomy-related exhibits, books or journals, or buy something in the shop
- Every Saturday maker activities for children
- Events: Science Cafés with invited scientist, Science Fiction evenings and various events on special occasions
- Co-created projects with external partners: artists, photographers, museums, universities



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The idea behind Raumschiff

Could astronomy become a hobby just like music or sports?



Spaceships created during the opening party

Raumschiff is designed to be a permanent space with regular opening hours for

- long-term engagement in astronomy
- access to open data, software and citizen science
- meeting and sharing with others
- testing new engagement formats



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What we do at Raumschiff



OPEN SPACE



SCIENCE CAFÉ

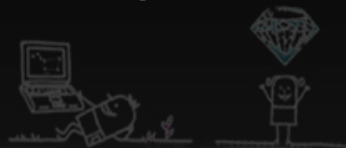
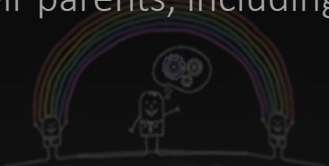


PROJECTS



WORKSHOPS

We currently offer four engagement formats. This presentation focuses on the **workshops** and the **open space** formats. Workshops involve enrolment and a small fee. They attract kids already interested in astronomy and supported by their parents. Open space is mainly used by kids from the neighborhood with little support from their parents, including children from refugee families.



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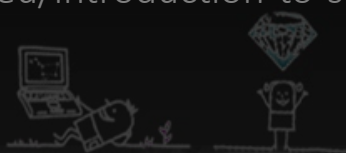
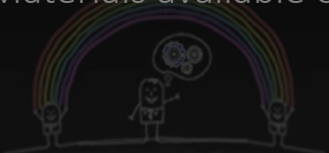


Workshops

Example: Introduction to SunSpotter Citizen Science (zooniverse.org)



- Combination of hands-on and online activities with elements of inquiry-based learning
- Data-driven approach using data from the Solar Dynamics Observatory SDO
- Participants learn to do their own solar flare forecasts
- Public engagement materials for the Horizon 2020 space project FLARECAST
- Materials available on flarecast.eu/introduction-to-sunspotter-citizen-science



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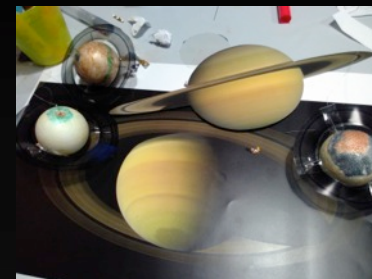


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Open Space



Methodology based on maker-education: creative thinking, problem solving, development of skills both computer- and craft based



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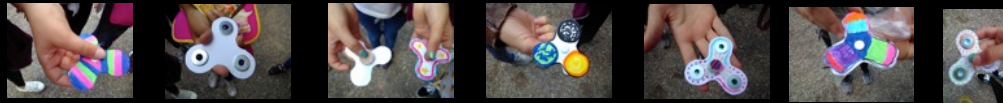


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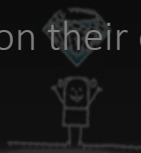




Open Space



Participants are encouraged to develop projects based on their own ideas.



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What we learned

- to listen to visitors' thoughts and ideas
- to expand our notion of 'science'
- to be patient with ourselves

Due to Raumschiff's location in a residential neighbourhood we are able to attract user groups previously not reached by our university-based outreach efforts.



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