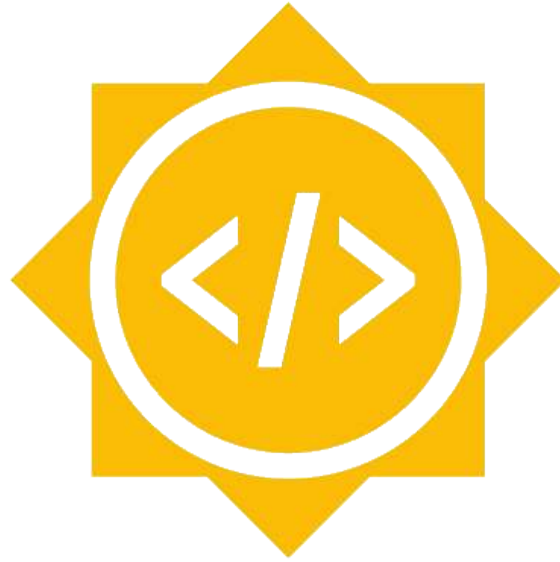


# Attracting Students to OpenStreetMap with Google Summer of Code

Peter Barth



# Attracting Students to OpenStreetMap with Google Summer of Code

~~Peter Barth~~

*Tobias Knerr*

# What is GSoC?

- Inspiration: Summer of Love
- Stipend for students, spend a summer working on FOSS
- Sponsoring OpenSource projects/software
  - Organizations get things done
  - Students and Orgs are brought together
  - Financial support
- Advertisement for Google

# OSM's goals

- Attract new developers and community members
- Financial support
  - ... for our students
  - ... for our project
- Getting things done

# History of GSoC

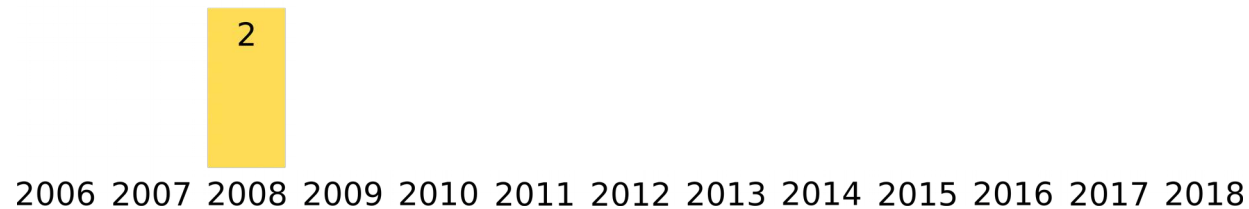
- For the first time in 2005
  - 41 projects
  - 419 students
- As of now way more than 1000 students and about 200 projects
- Project pass rate >80%

# History for OSM

- First try in 2006: submitted too late

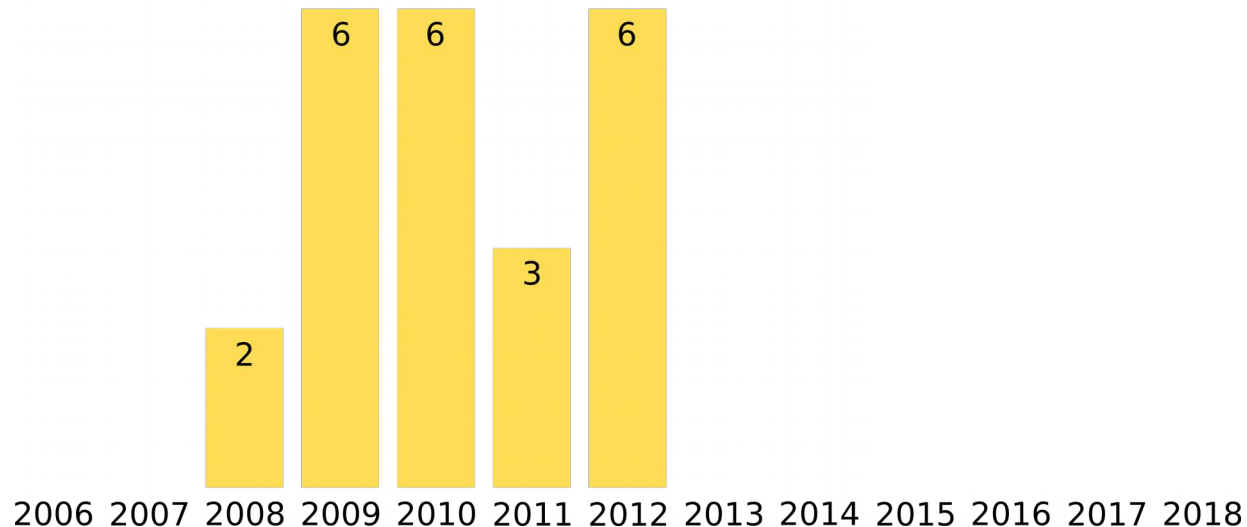
# History for OSM

- Accepted in 2008 for the first time



# History for OSM

- Break in 2013 and 2014
  - (but still participated via OSGeo)





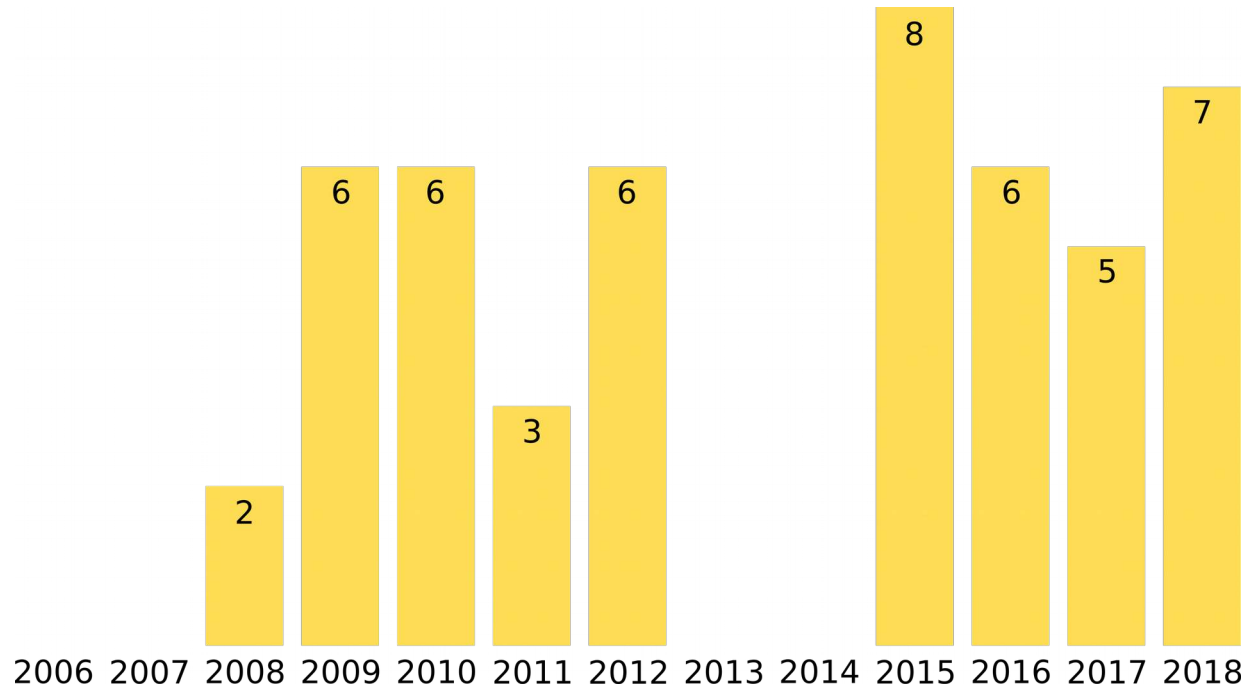
# History for OSM

- 2015: Peter takes over the admin role
- 2017: EWG asked to help



# History for OSM

- More than 45 projects total!



# History for OSM

- 2015:  
[blog.osm.org/2016/02/10/gsoc-2015/](http://blog.osm.org/2016/02/10/gsoc-2015/)
- 2016:  
[blog.osm.org/2017/02/11/preparing-for-another-summer-of-code/](http://blog.osm.org/2017/02/11/preparing-for-another-summer-of-code/)
- 2017:  
[blog.osm.org/2017/09/20/recap-of-google-summer-of-code-2017/](http://blog.osm.org/2017/09/20/recap-of-google-summer-of-code-2017/)

# Changeset discussions

OpenStreetMap [Bearbeiten](#) [Chronik](#) [Export](#) [Probleme](#) [GPS-Tracks](#) [Benutzer-Blogs](#) [Urheberrecht](#) [Hilfe](#) [Über](#) [Pedia](#)

Suchen [Wie wir das?](#) [Lohn](#) [G+](#)

### Änderungssatz: 61156040

Added Various Parks/Playgrounds in the area.  
Added Footpath that wasn't previously represented noting that it is a lit footpath.

Geschlossen vor etwa 4 Stunden von [mpk1982](#)

Attribute

changesets_count	1
created_by	<a href="#">id 2.10.0</a>
host	<a href="https://www.openstreetmap.org/edit">https://www.openstreetmap.org/edit</a>
imagery_used	Bing aerial imagery
locale	en-US

Diskussion [Abonnieren](#)

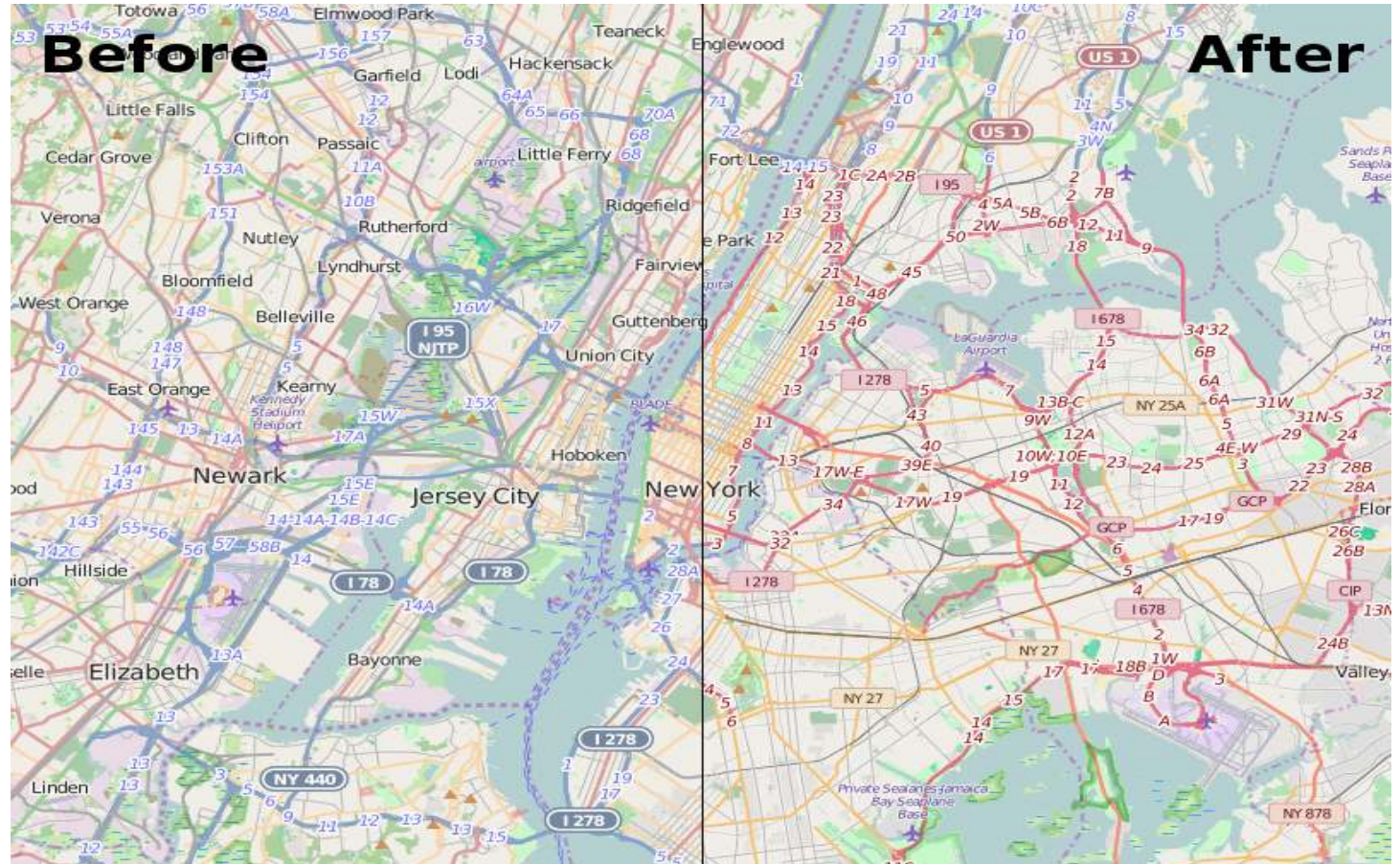
Diskussionsbeitrag von [user\\_5359](#) vor etwa 4 Stunden — verstecken

Welcome to OSM! Please check the name of the street. It seems more the name of the neighbourhood as the street name.

Diskussionsbeitrag von [mpk1982](#) vor etwa 4 Stunden — verstecken

Thanks for the suggestion! However the name of the street and neighborhood are the same.

# Update OSM Carto



# JOSM Mapillary plugin

The screenshot displays the JOSM (Java OpenStreetMap) interface. The main map area shows a street layout with buildings labeled '102', '100', '98', 'PADU Bistro', and '35'. A scale bar indicates 14.1 m. The top menu bar includes File, Edit, View, Tools, More tools, Data, Selection, Presets, Imagery, Windows, Audio, and Help. The right sidebar shows a list of relations: Relations: 10, Conflict, Measured values, and Mapillary picture — peda — 04/01/2016 - 12:52:10 (CET). The bottom status bar shows coordinates 48.5652206, 13.4349023, and 72111664 (46 nodes). A Mapillary photo of a snowy street scene is displayed in the bottom right, with a 'View in website' link and navigation buttons: Jump to blue, Previous picture, Next picture, and Jump to red.

# OSM2World shaders



# 3D model repository

3D Model Repository

[API Docs](#)

[Downloads](#)

[Map](#)

[Login](#)

## 3D Model Repository

This is a repository for storing models for use in OSM 3D visualizers. Login using OSM OAuth on the top right. There is a [wiki page](#) and a [GitLab repository](#) available. You may also express your thoughts on the [3D subforum](#) of the OSM forums.

Torre dell'Angelo (Vercelli)



Categories: [monuments](#)

Tags: [building=yes](#) [man\\_made=tower](#)

Uploaded by [SimoneSaviolo](#) on 2018-06-29

Maison du meunier (Le Fleix)



Categories:

Tags: [building=yes](#)

Uploaded by [Rinaldum](#) on 2018-06-21

Halle de Ste-FOY-LA-GRANDE (Fra)



Categories:

Tags: [building=yes](#)

Uploaded by [Rinaldum](#) on 2018-06-21

Château de Bonaguil



Categories: [castle](#)

Tags: [building=yes](#)

Uploaded by [Rinaldum](#) on 2018-06-21

Church of Châtel-Montagne




Categories: [church](#)

Tags: [amenity=place\\_of\\_worship](#)

Uploaded by [Rinaldum](#) on 2018-06-18

Torre civica di Vercelli



Categories: [monument](#) [tower](#)

Tags: [height=38](#) [building=yes](#) [man\\_made=tower](#)

Uploaded by [SimoneSaviolo](#) on 2018-06-16



# Other examples

- CGI-Map
- JOSM
  - Many core enhancements, bug fixes, ...
  - Several plugins
- iD
- ...

# Workflow

- Application phase for organizations
- Application phase for students
- Choosing slots
- Slot assignment by Google
- Choosing projects by mentors and admins
- Community bonding
- Programming phases I + II + III
- Evaluations

# Workflow: Roles

- Administrators
- Mentors
- Students

# Workflow: Admins

- Send organization application (in time)
- Fill in questionnaire (see wiki)
- Talk to potential students (ML, IRC, Mail, ...)
- Send reminders, help with communication, ...
- In case of need:
  - Be the “bad cop”
  - Do the evaluation (didn’t happen once yet)

# Workflow: Mentors

- Sketch project idea
- Communicate with potential candidates
- Help us choose candidates (supported by other mentors and admins)

# Workflow: Mentors

- Support students with
  - Community bonding
  - Familiarization with code
  - Meeting with student at least once a week
  - Support in case of problems
- Evaluation of student
- Expenditure of time: 1–10h per week

# Workflow: Students

- Choose your (our!) organization and project idea or even suggest your own idea!
- Get to know your organization and mentor
- Apply and hope to get chosen
- Community bonding
- Work hard on your project, pass evaluations
- Don't forget to document (your code and project)

# Internal mentor feedback

- Annual survey of GSoC participants (mentors)  
(no numbers for older projects though)
- In general: very positive feedback
- Partially quite a lot of work
- Unanimous opinion: participate again



# Current state

- Organized by EWG
- In progress: GSoC 2018
  - 6 projects (was 7, 1 failed)
  - Final evaluation: 6<sup>th</sup> August
- After GSoC is before GSoC:
  - Mentors: Start collecting ideas now (Wiki or EWG)

# Current state: Projects

- iD: Notes
- iD: Support for vector tile data
- JOSM: Continue PT Assistant
- JOSM: Extend Wikipedia/Wikidata plugin
- GTFS converter
- OSM PT Editor

Interested?

Talk to me or EWG