

Crossing Dublin without passing a pub

# The problem

In 1922, Irish author James Joyce wrote *Ulysses*, a “stream of consciousness”,

which “chronicles the passage of Leopold Bloom through Dublin during an ordinary day, 16 June 1904” and “is considered to be one of the most important works of Modernist literature”

Within episode 4, this: “Good puzzle would be cross Dublin without passing a pub”

# Perfect for OSM

- ▶ Route navigation but with very weird niche requirements
- ▶ Need OpenData so I can do this myself without waiting for gatekeepers to allow it

# Bloomsday

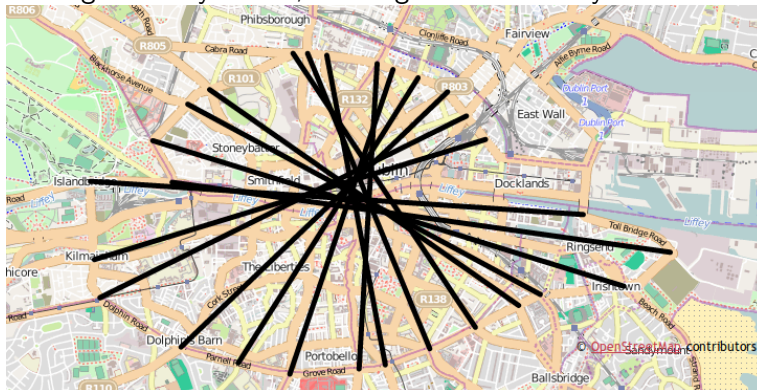
Every 16th June, literary fans dress up in period costume, and follow some parts of Leopold Bloom's walk,

# Definitions

- ▶ “cross Dublin”
- ▶ “passing a pub”

# Crossing Dublin

- ▶ Through the city centre, crossing the River Liffey



# What is a pub?

- ▶ Tagged amenity=pub
- ▶ Excludes: off-licences, restaurants

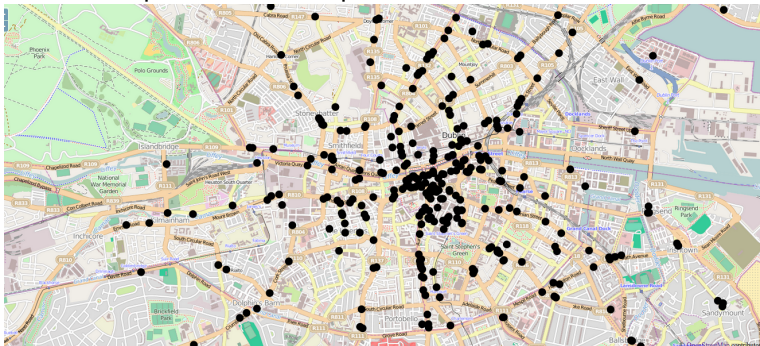
# Write a programme!

- ▶ Wrote a programme to download OSM XML from overpass for Dublin
- ▶ Parse it and look at roads/paths and pubs
- ▶ Remove any road/path that passes within X metres of `amenity=pub`
- ▶ Brute force, depth first search on what's left
- ▶ <https://github.com/rory/openstreetmap-publess-walk>



# Pubs in Dublin

- ▶ About 325 pubs in area in question



# Area 30m around pubs



Figure : Circles around pubs

# Area 30m around pubs (inner)

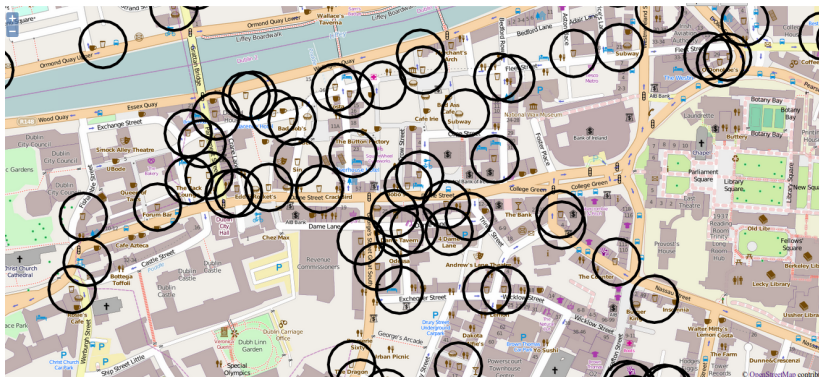


Figure : Circles around pubs, Temple Bar

# Possible routes

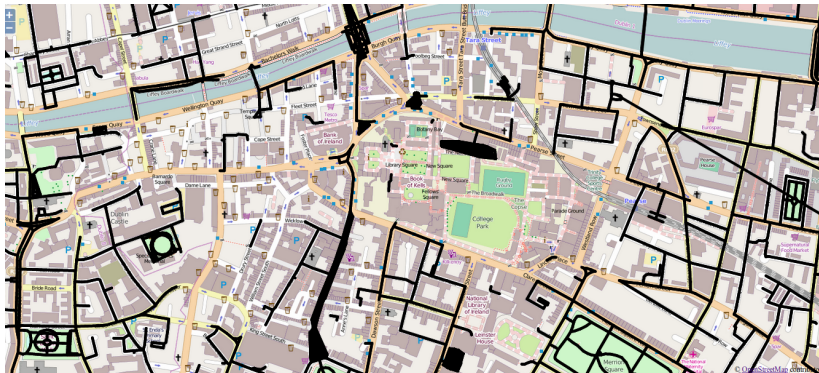


Figure : Possible roads we could take

# Brute force!

- ▶ No need to come up with a fancy algorithm - Premature optimization is the root of all evil.
- ▶ Weighted depth first search
- ▶ Results in ~10 minutes on my old laptop

# Result

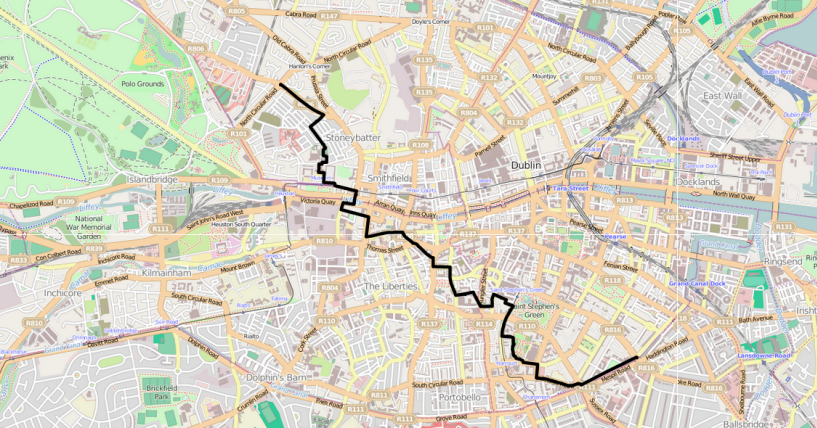


Figure : Result

# Complaints

- ▶ It walks along side the Guinness Brewery for a little bit
  - ▶ But you can't walk in and get a pint.

## Traditional Irish solution:

If you go *into* each pub and have a drink, then technically you're not “passing” it....



# Thank you

- ▶ Rory McCann [rory@technomancy.org](mailto:rory@technomancy.org)
- ▶ Source code:  
<https://github.com/rory/openstreetmap-publess-walk>
- ▶ More details: <http://www.kindle-maps.com/joyce>