Introduction to spatial analyses

Schedule

- Monday. Introduction to spatial data in R (Søren + Adrian)
- Tuesday. Handling data from large online databases (Søren + Adrian)
- Wednesday. MCMCglmm (Ferran + Søren)
- Thursday. Spatial analyses in R (Søren + Adrian)
- Friday: Excersises (Søren + Adrian)

Zoom etiquette

- If your internet can handle it please keep cameras on.
- Please mute microphone when not speaking

Daily Schedule

9.00-9.? Quick meeting generally with short lecture

9?-12 Independent work on tutorial

12-13 Lunch

13.00-13? Quick meeting

13?-15.45 Independent work on tutorial

15.45-16.00 Wrap up

OPINION

Obama's Divided Nation

ama presides over
ica more divided
any time in 50
ry that was riven
racial lines gath-
2008 to elect its
ident. That presi-
four years dividing
the basis of eco-
The campaign re-
vealed no evi-
dence that Mr.
Obama will close
the chasm he has
created between
his voters and
those he attacked
and vilified.
It may be true
that Mitt Romney
failed to respond

R.I.
Conn.
Del.
D.C.

Obama Romney

Source: AP

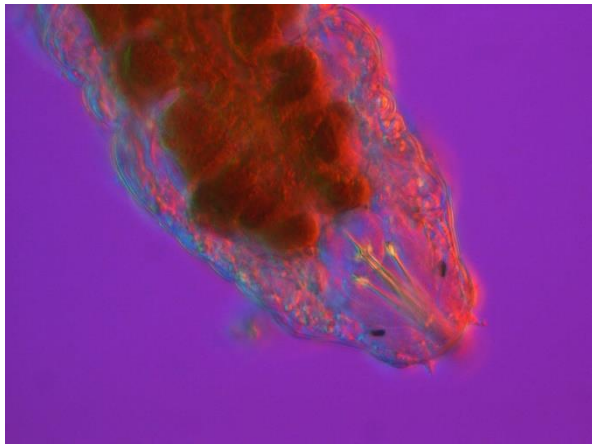
drawn attention to what hap-

Obama spokestotum replied:

problem with pols, e
verbally facile as Mr.
that in crunch time,
reverts to No. 1. Exi
that 9% of the electo
who to vote for jus
Tuesday; and amo
42% said Mr. Oban
Sandy response—t
tie photo-op—wa
factor. Of those,
voted for Mr. Ob
Mr. Christie is o
politico who is
Yes, Republic
across two pres
that there are
how crudely
issue like ill
Blowing up th
if you thoug
day's results

Who is who?

- Name
- Home country
- Quick summary of what you are working on
- Level of R experience
- Odd or fun fact about you



Work at your own speed

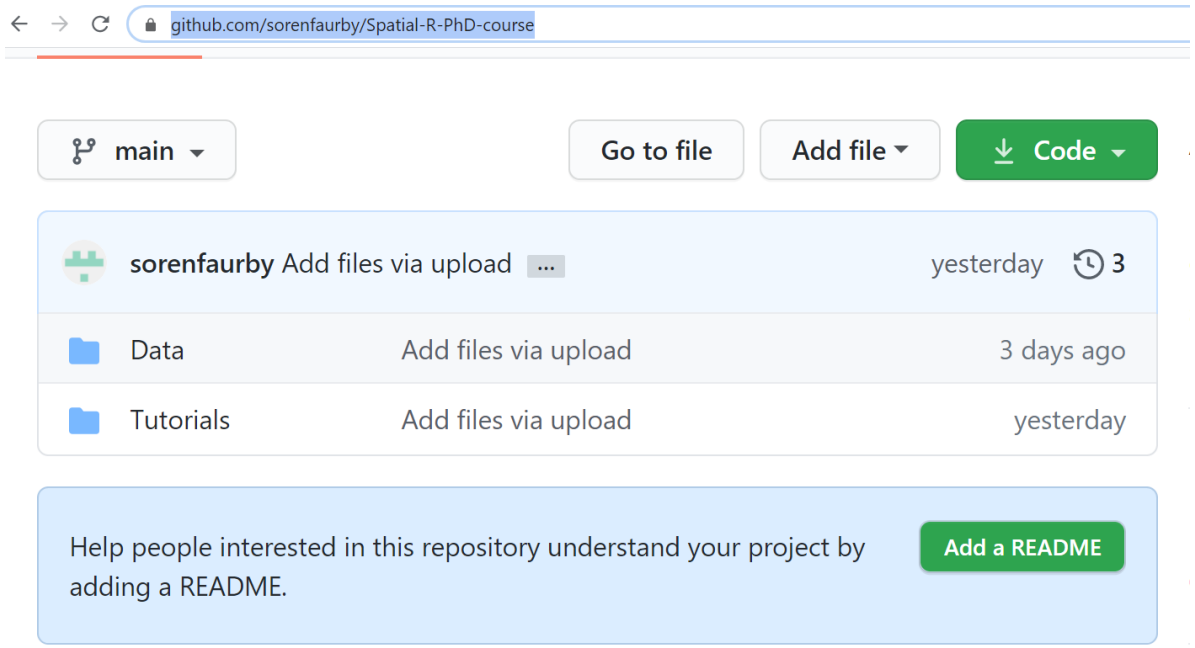
- Some people are really fast on computers.
- Some are not.

- It is better to take it slow and learn someting than to rush through everything

Data

Tutorials:
https://github.com/sorenfaurby/Spatial-R-PhD-course/

Download everything after clicking on the green Code field

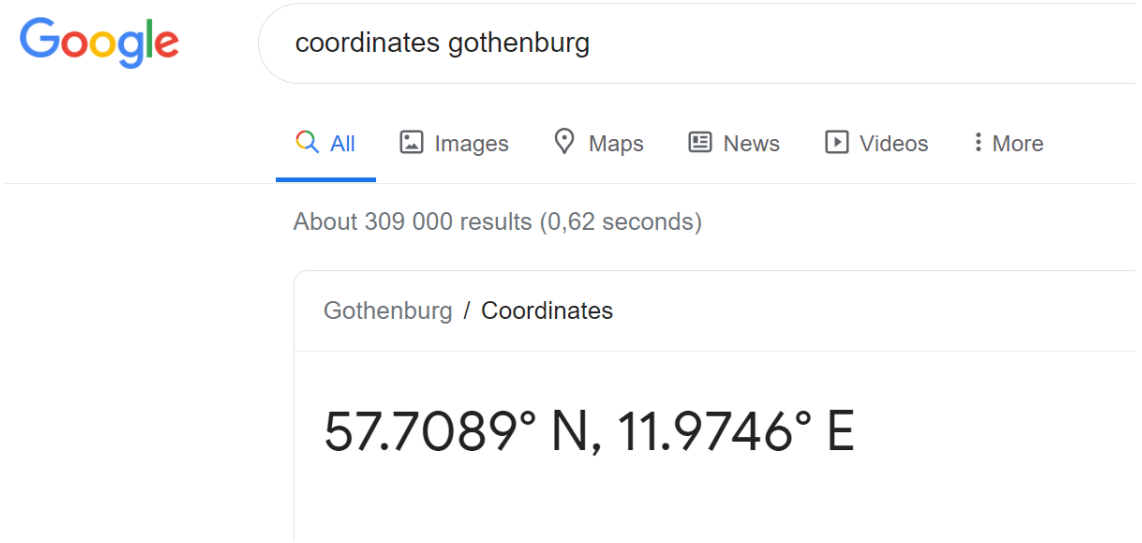


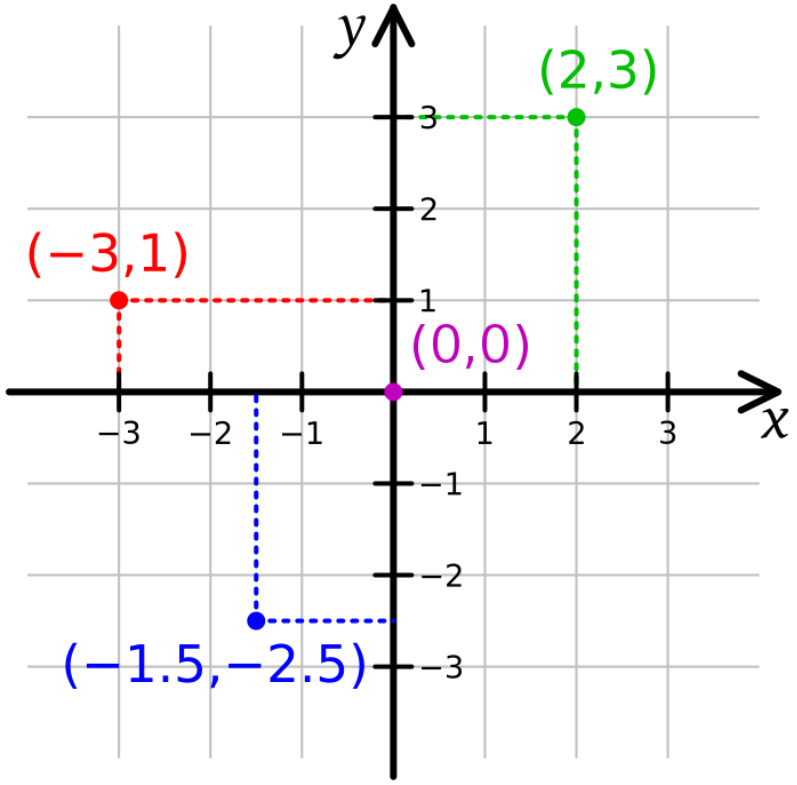
R
Studio®

slack

stackoverflow

Spatial orientation

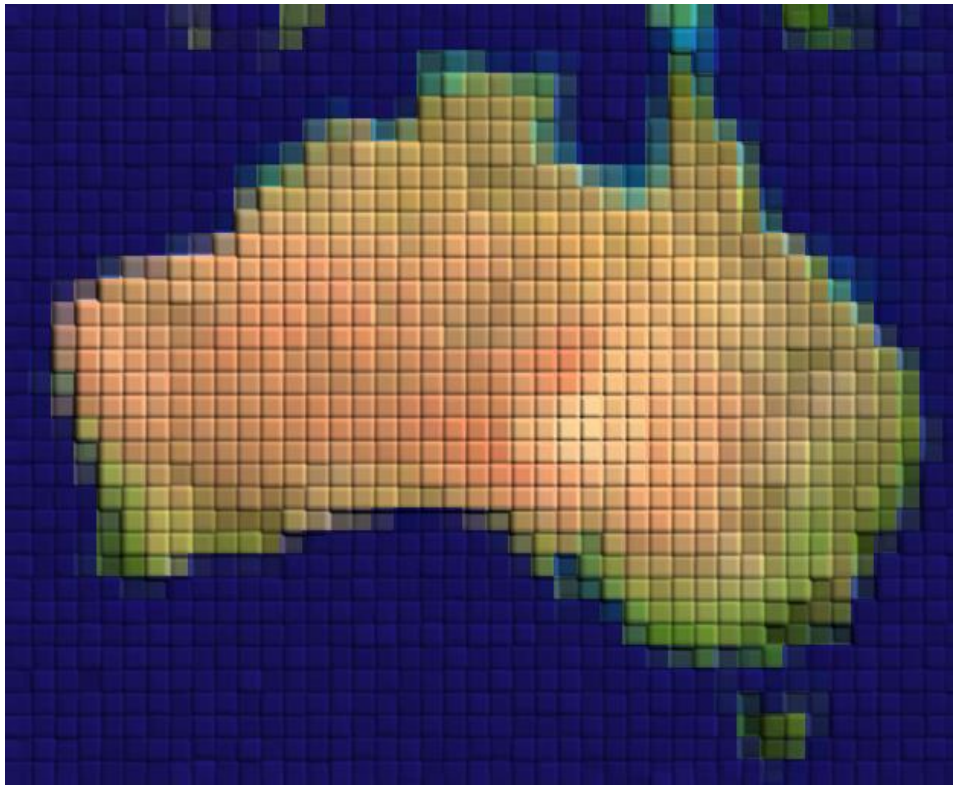




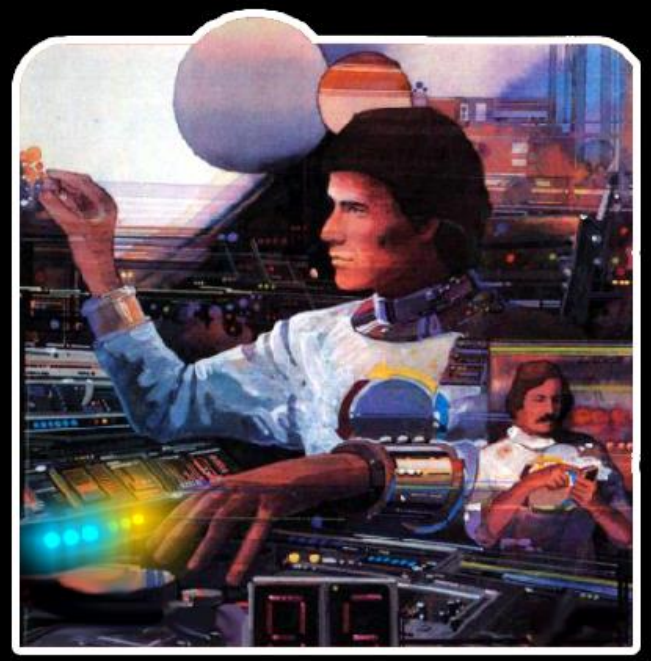
Datatype: Polygon

Datatype: Rasters

- Conceptually think of an aeral photo
- Each pixel has
  - Dimensions (X and Y axis)
  - Midpoint coordinates
  - Color



THE TWO STATES OF EVERY PROGRAMMER



I AM A GOD.

I HAVE NO IDEA WHAT I'M DOING.