COVID, GEOMETRY GENERATORS ET AUTRES CARTO-GEEKERIES

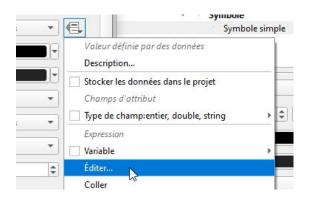
ODATAGISTIPS MATHIEU RAJERISON

CONFÉRENCE QGIS-FR 2020 - SUR LA TOILE

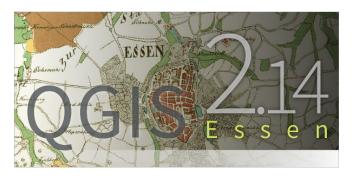
2013



Data-defined properties

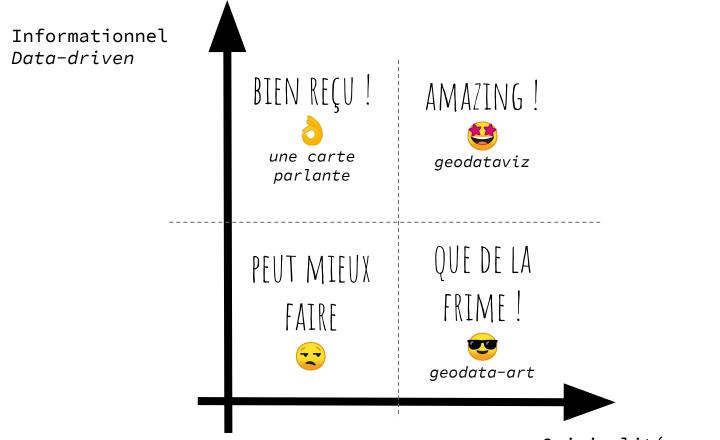


2016



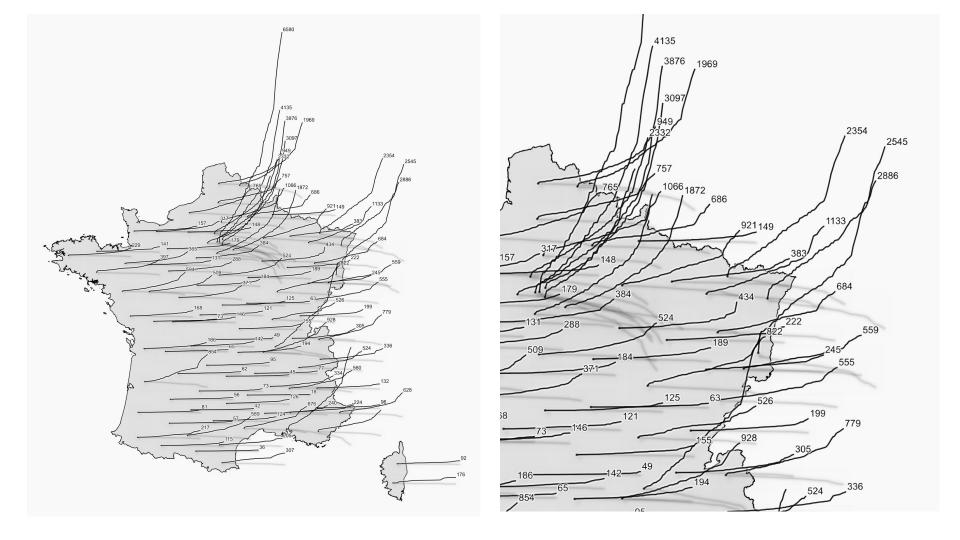
Geometry generators





Originalité Aesthetic-driven

CARTE DE LA COVID



ÉCHOS

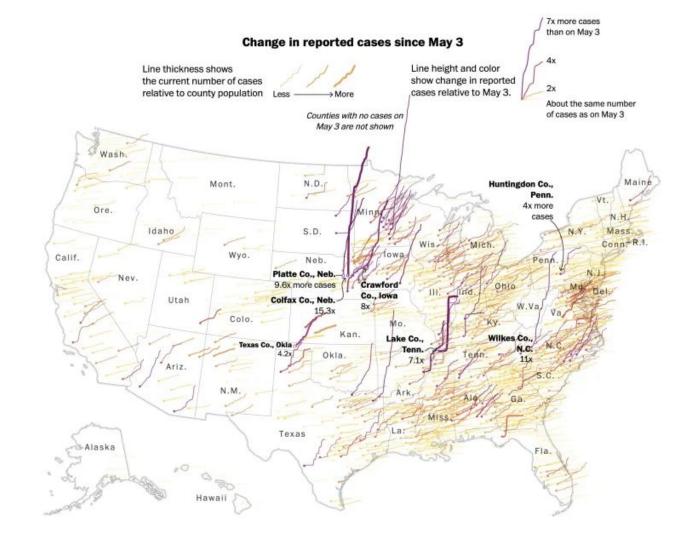


000

I hadn't seen this type of map before cc @kennethfield

Traduire le Tweet

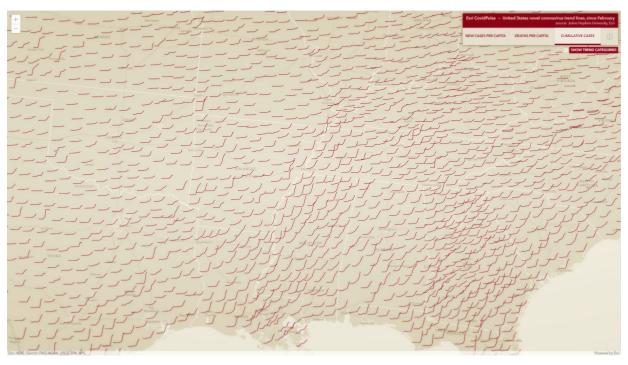
The Washington Post





John Nelson

<u>CovidPulse</u>



CONCEPTION



Bouches-du-Rhône



Bouches-du-Rhône, Jour 1, 1
Bouches-du-Rhône, Jour 2, 2
Bouches-du-Rhône, Jour 3, 5
Bouches-du-Rhône, Jour 4, 7
Bouches-du-Rhône, Jour 5, 9
Bouches-du-Rhône, Jour 6, 13
Bouches-du-Rhône, Jour 7, 15
Bouches-du-Rhône, Jour 8, 18
Bouches-du-Rhône, Jour 9, 21

Bouches-du-Rhône

Relation

Bouches-du-Rhône, Jour 3, 5

Bouches-du-Rhône, Jour 4, 7

Bouches-du-Rhône, Jour 6, 13

Bouches-du-Rhône, Jour 7, 15 Bouches-du-Rhône, Jour 8, 18 Bouches-du-Rhône, Jour 9, 21

Bouches-du-Rhône, Jour 5, 9

Bouches-du-Rhône, Jour 2, 2

Bouches-du-Rhône, Jour 1, 1

Bouches-du-Rhône, Jour 1, 1
Bouches-du-Rhône, Jour 2, 2
Bouches-du-Rhône, Jour 3, 5
Bouches-du-Rhône, Jour 4, 7
Bouches-du-Rhône, Jour 5, 9
Bouches-du-Rhône, Jour 6, 13
Bouches-du-Rhône, Jour 7, 15
Bouches-du-Rhône, Jour 8, 18

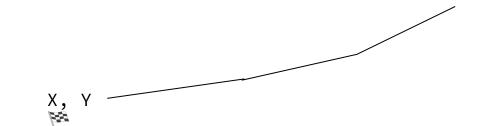
Bouches-du-Rhône, Jour 9,

21

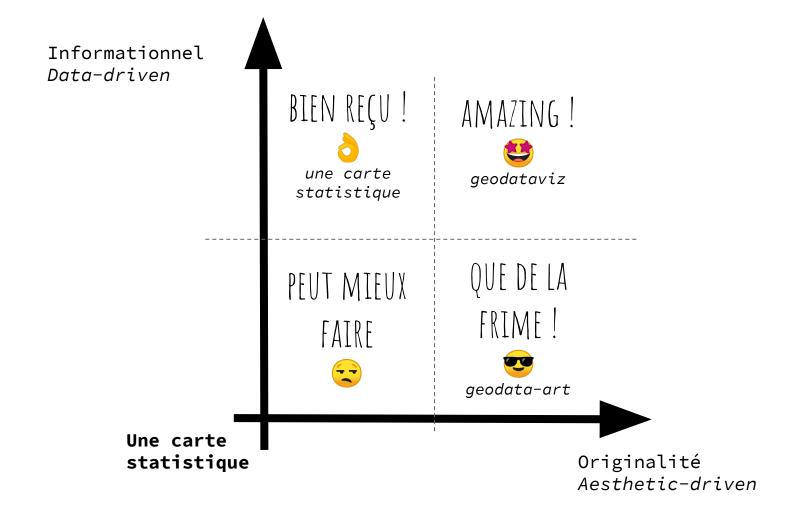
Bouches-du-Rhône, [1, 2, 5, 7, 9, 13, 15, 18, 21]

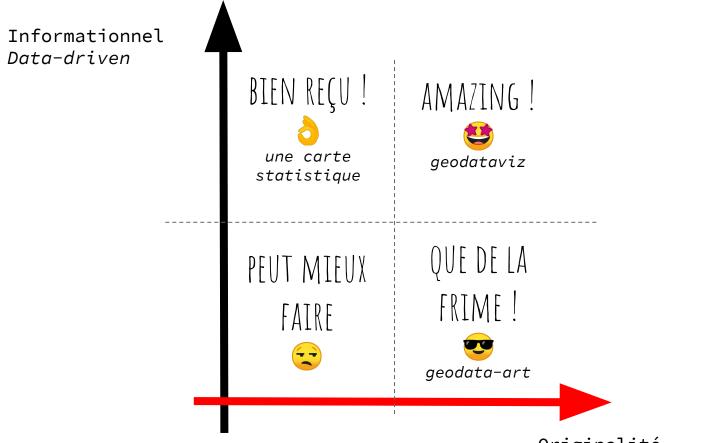
Bouches-du-Rhône, [1, 2, 5, 7, 9, 13, 15, 18, 21]

Bouches-du-Rhône, [1, 2, 5, 7, 9, 13, 15, 18, 21]



```
with variable (
     'atlasid',
     @atlas featureid - 1,
     with variable(
          - 'height',
           100.
           with variable(
               - 'width',
                 200000,
                with variable (
                     - 'nb cas',
                      array sort (
                            relation aggregate(
                                  'donnees ho dep DEPARTEMEN INSEE DEP',
                                  'array agg',
                                 to int("dc")+to int("hosp")+to int("rea")+to int("rad"))
                      geom from wkt(
                          - 'LINESTRING ('
                            x(centroid($qeometry))||' '||y(centroid($qeometry))
                            ||','||
                            array to string(
                                 array foreach (
                                       generate series(1, @atlasid),
                                             -- X Coordinates
                                             to string(x(centroid($geometry)) +
                                             (@element/array length(@nb cas)*@width)) ||' '||
                                             -- Y coordinates
                                             to string(y(centroid($geometry)) + @nb cas[@element]*@height)
                            ',') || ')'
                                                        https://datagistips.hypotheses.org/488
```

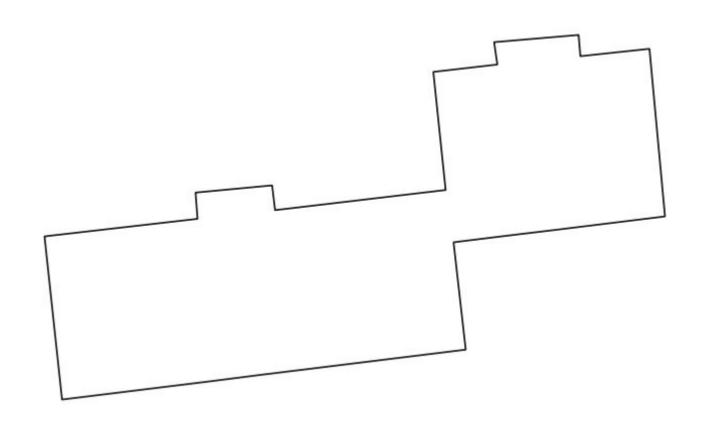




Originalité Aesthetic-driven

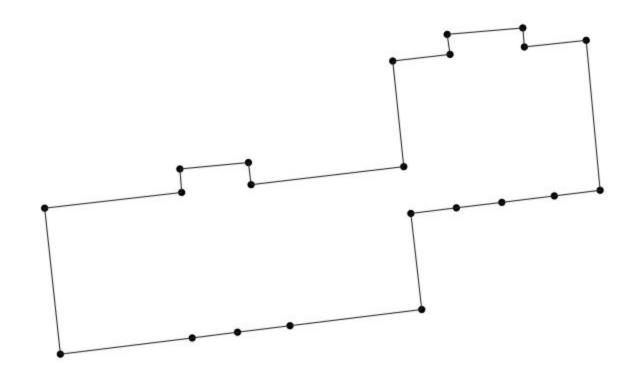
COMMENT FAIRE COMME SI MA CARTE AVAIT ÉTÉ DESSINÉE AU CRAYONA PAPIER?

· 我们是我们的国际中国的人工的社会,我们是这个人的人们的人们是一个人的人们的人们是一个人们的人们是一个人们的人们是一个人们的人们是一个人们的人们是一个人们的人



© OpenStreetMap
contributors

VOICI LES NOEUDS CONSTITUTIFS

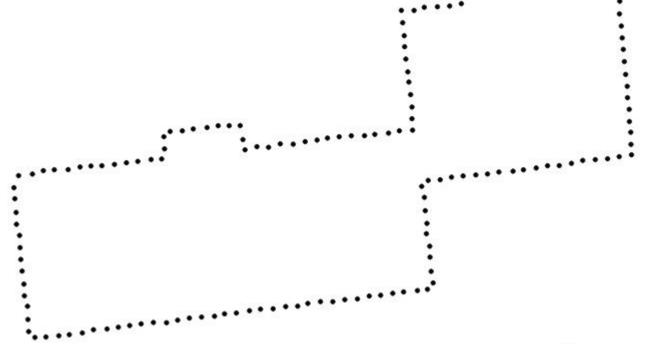


ON DENSIFIE

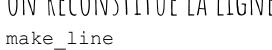
generate_series
array_foreach
line_interpolate_point

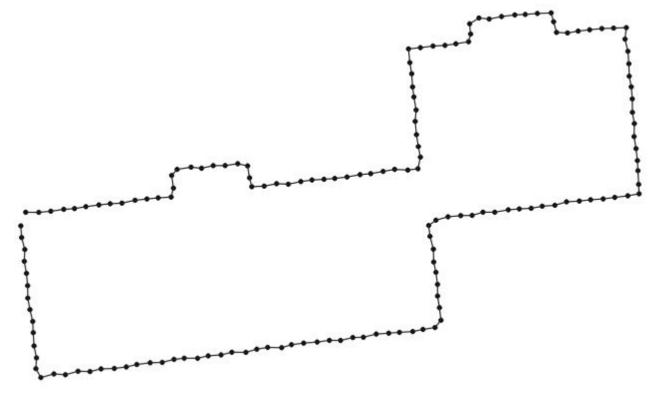
ON DÉCALE AU HASARD LES DIFFÉRENTS NOEUDS

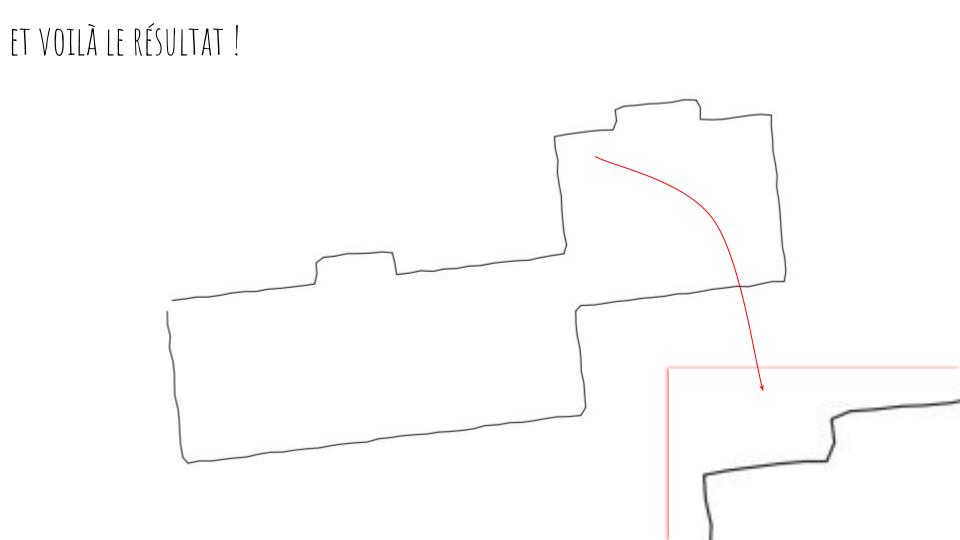
translate



ON RECONSTITUE LA LIGNE

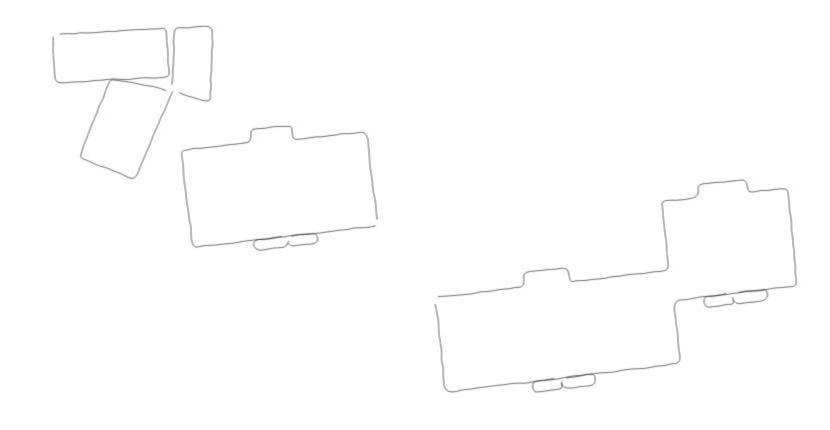




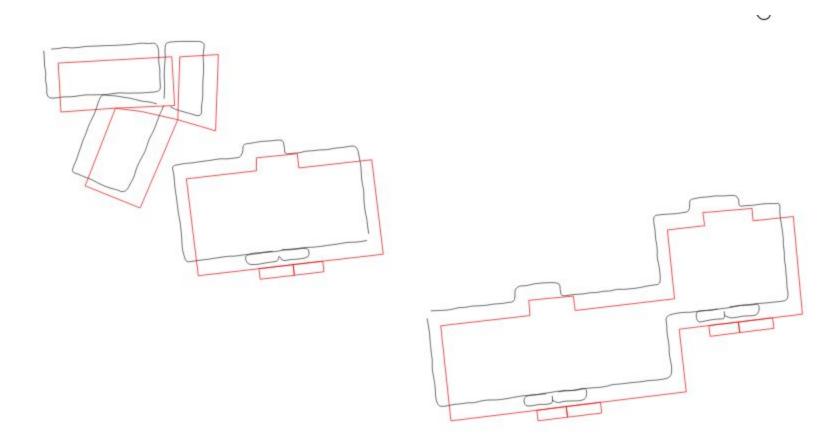


ON LA LISSE smooth

VOICI LE RÉSULTAT SUR LA COUCHE ENTIÈRE

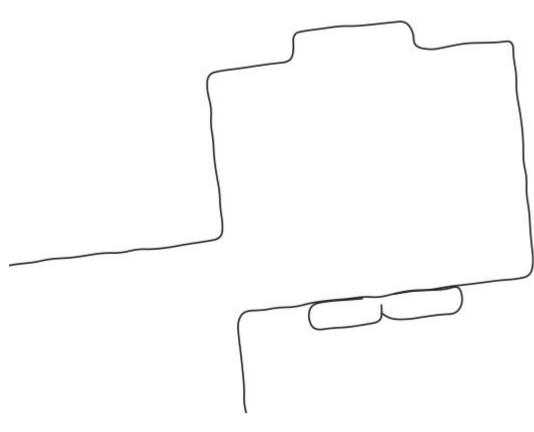


AVANT / APRÈS



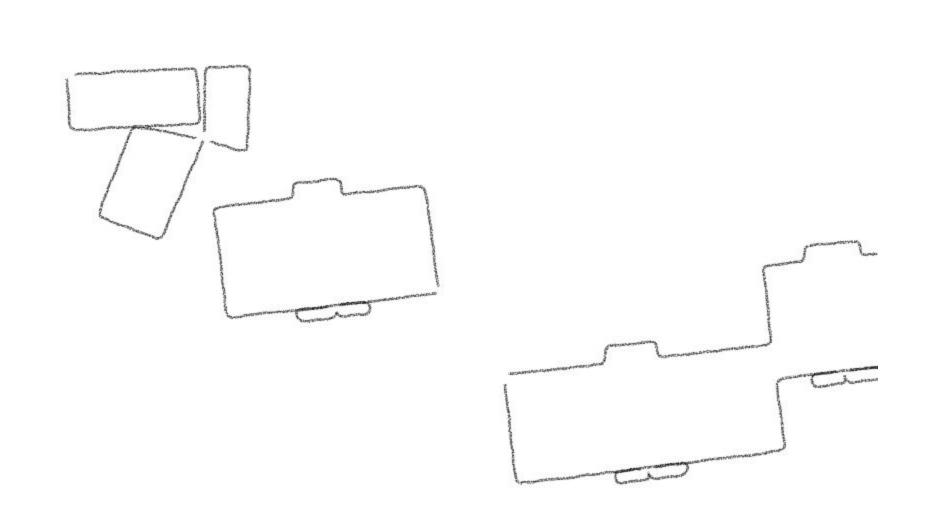
```
smooth(
                                                                 (polygone)
    make_line(
        array_foreach(
             generate_series(
                 length(exterior_ring($geometry)),
             translate(
                 line_interpolate_point(
                     exterior_ring($geometry),
                     @element
                 randf(-0.1, 0.1), -- dx
                 randf(-0.1, 0.1) -- dy
```

ON PASSE AU CRAYONNÉ?

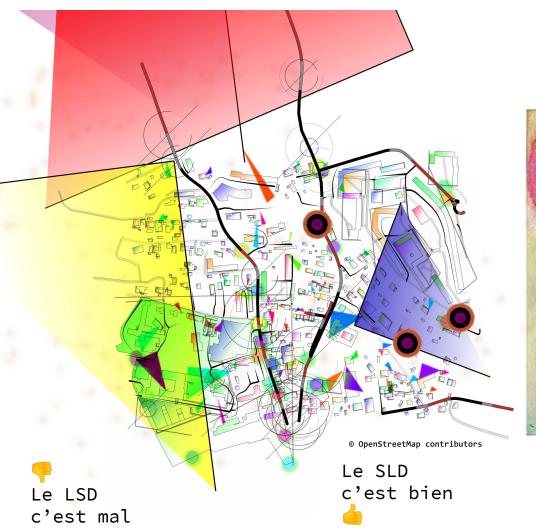


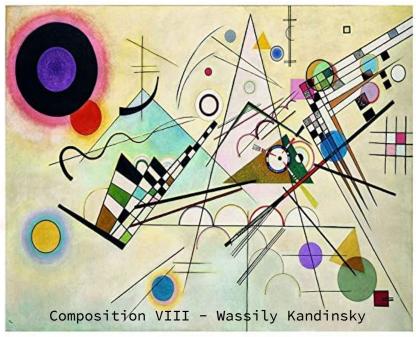
PLEIN DE POINTS QUE L'ON DÉCALE UN PEU AU HASARD

ligne de symboles propriété : décalage avec randf (CATTERNATION \$100K-401K-475K-16K-16K-675K-44



QANDINSKY











STYLES

GÉNÉRATEUR DE GÉOMÉTRIES LIGNE DE SYMBOLES REMPLISSAGE AVEC MARQUEURS ALÉATOIRES



FONCTIONS

formes

```
RANDF
humain →
     GENERATE _SERIES
      ARRAY _FOREACH
 LINE _INTERPOLATE _POINT
         TRANSLATE
        MAKE_LINE
          BUFFER
     NODES_TO_POINTS
      EXTERIOR _RING
```

design génératif

MES CONSEILS

- ISOLER UN ÉLÉMENT, SUR LEQUEL TRAVAILLER
- PRÉFÉRER LE LAMBERT-93 OU PSEUDO-MERCATOR (3857)
- TRAVAILLER EN UNITÉS DE CARTES
- **CONSERVER** UNE ÉCHELLE DE TRAVAIL ET UTILISER LA **LOUPE**
- TRAVAILLER LES STYLES EN LIVE (PANNEAU STYLE DES COUCHES)

INSPIREZ-VOUS ET PARTAGEZ VOS CRÉATIONS

HTTPS://PLUGINS.QGIS.ORG/STYLES/

ROMAIN LACROIX
TOPI TJUKANOV
CARTOCALYPSE
KLAS KLARSSON

MERCI DE VOTRE ATTENTION

