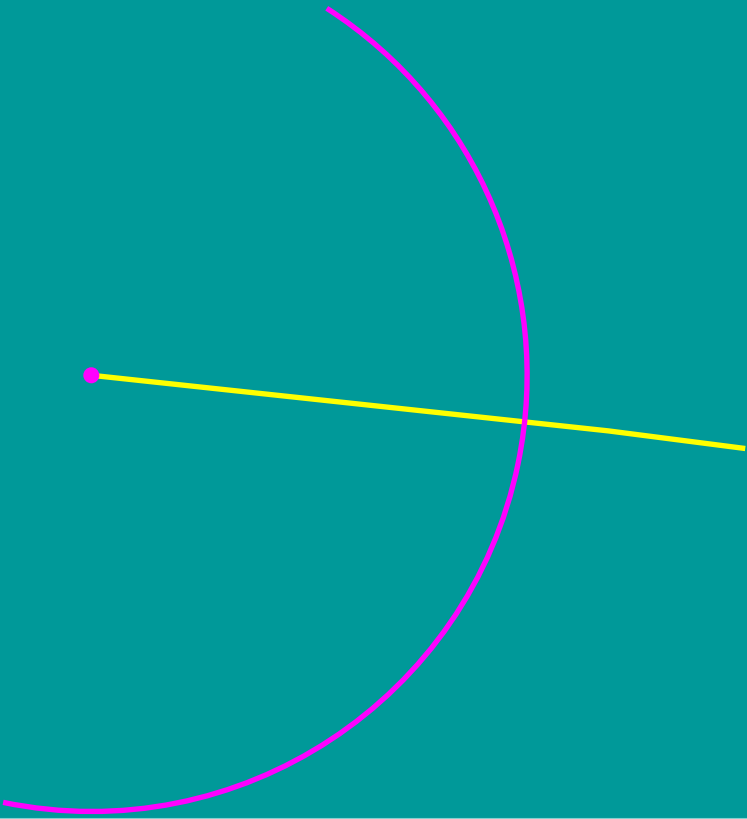


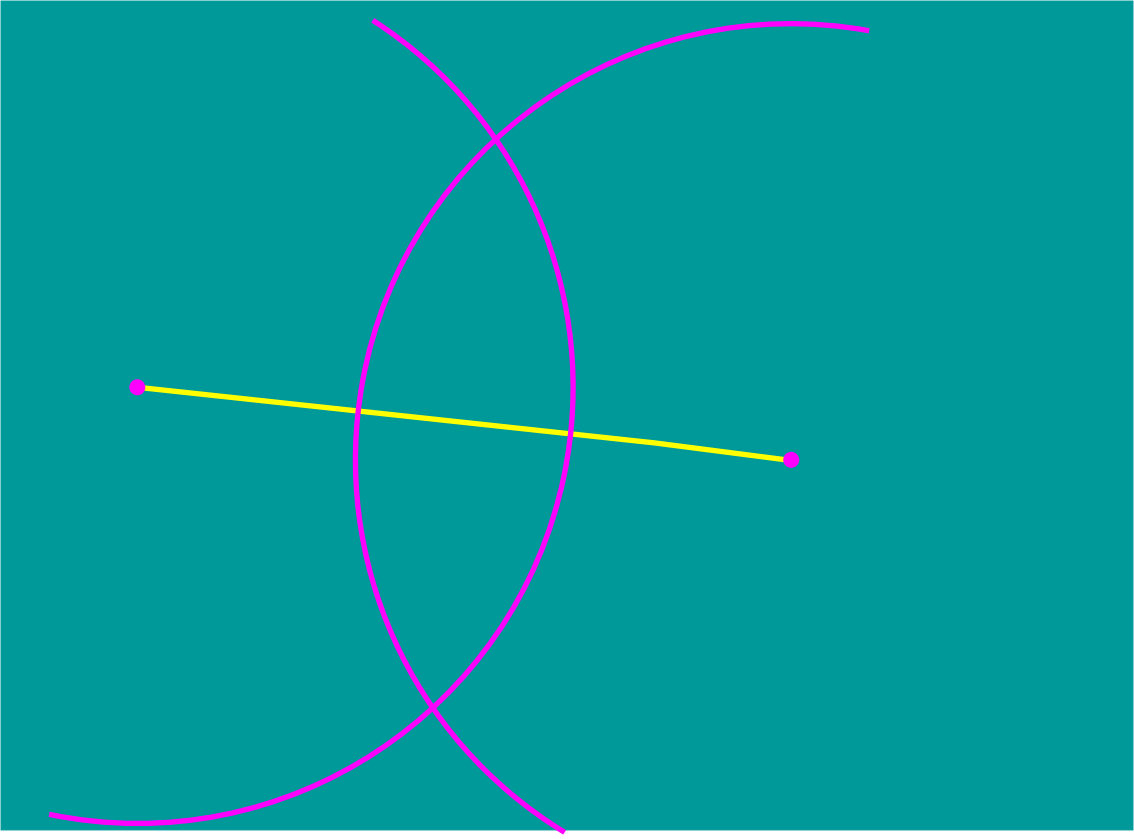
Les triangles

à quoi ça sert ?

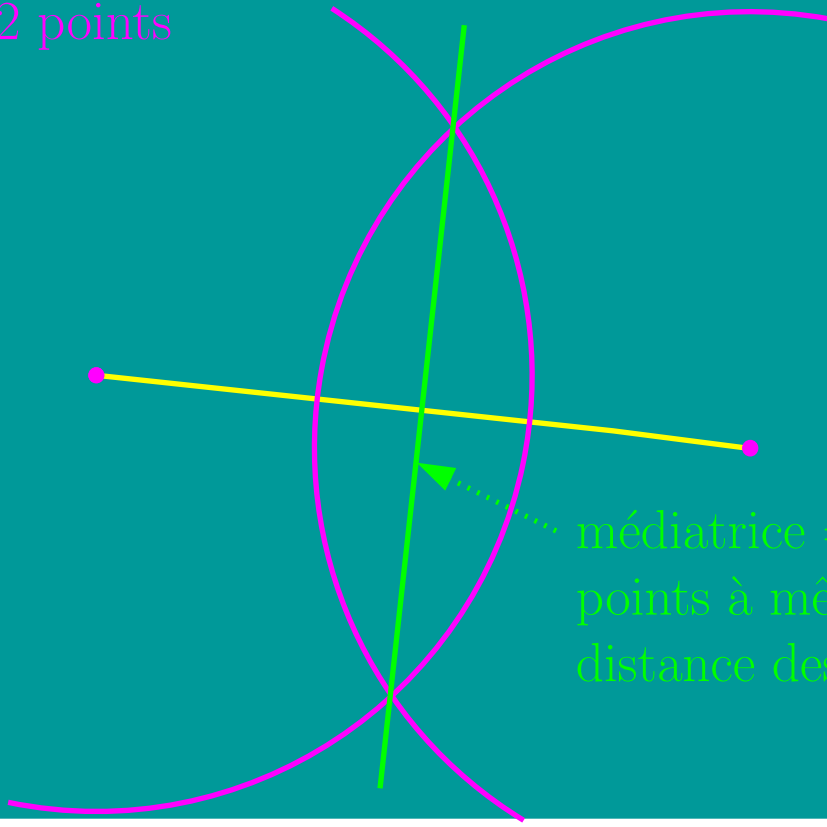
The image shows a complex geometric diagram on a yellow background. The diagram consists of numerous yellow lines forming a series of interconnected triangles and quadrilaterals. The overall shape is roughly circular but irregular. In the center of the diagram, the text "Médiatrice de deux points" is written in a purple, serif font. The text is positioned horizontally and appears to be centered relative to the main structure of the diagram. The lines of the diagram are thin and uniform in color, creating a dense network of geometric shapes. The text is the only element in a different color, providing a clear focal point for the viewer.

11

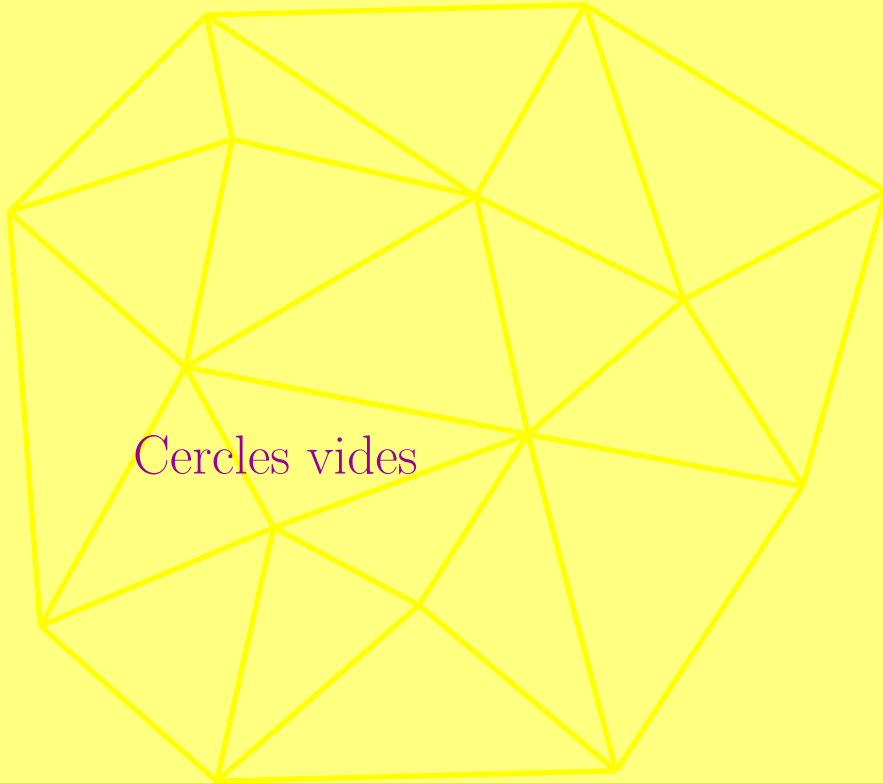




2 points

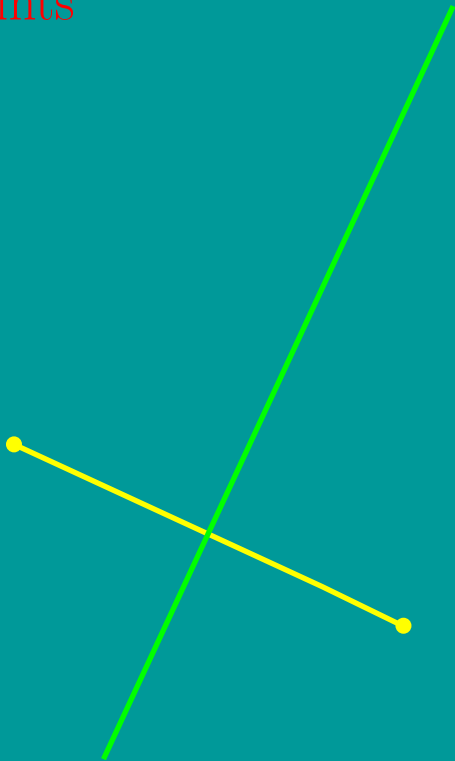


médiatrice =
points à même
distance des 2 points

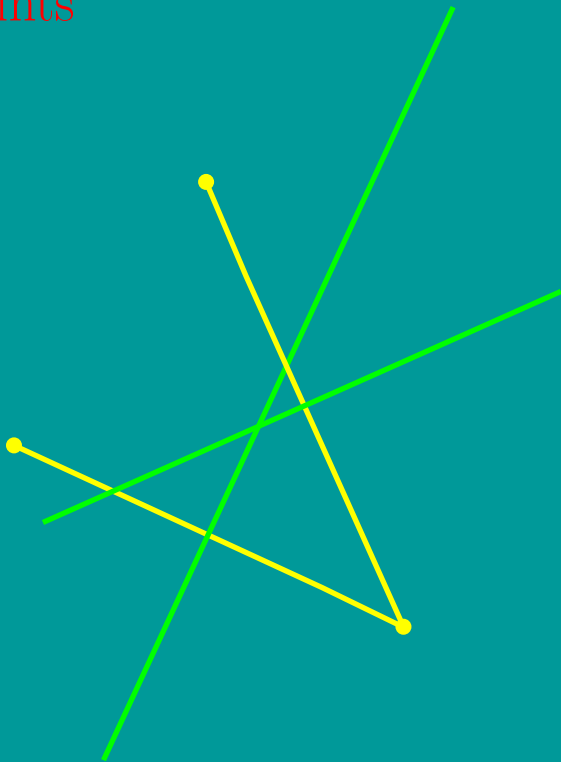


Cercles vides

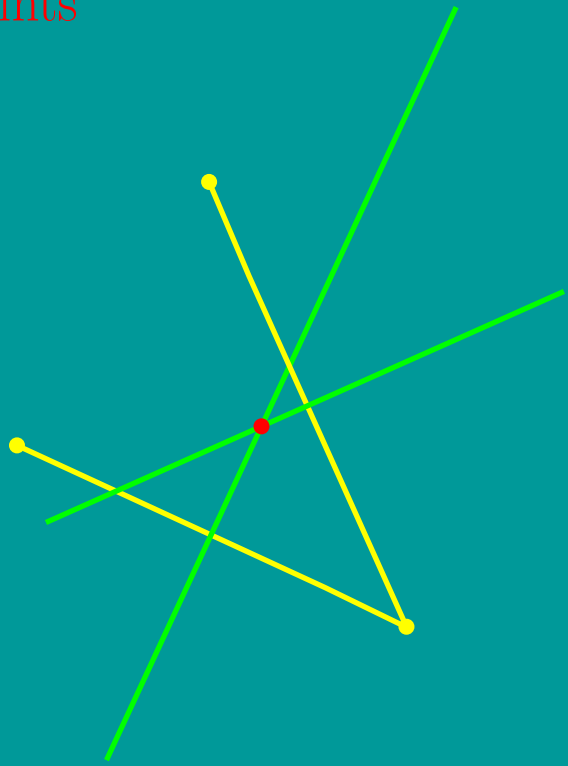
3 points



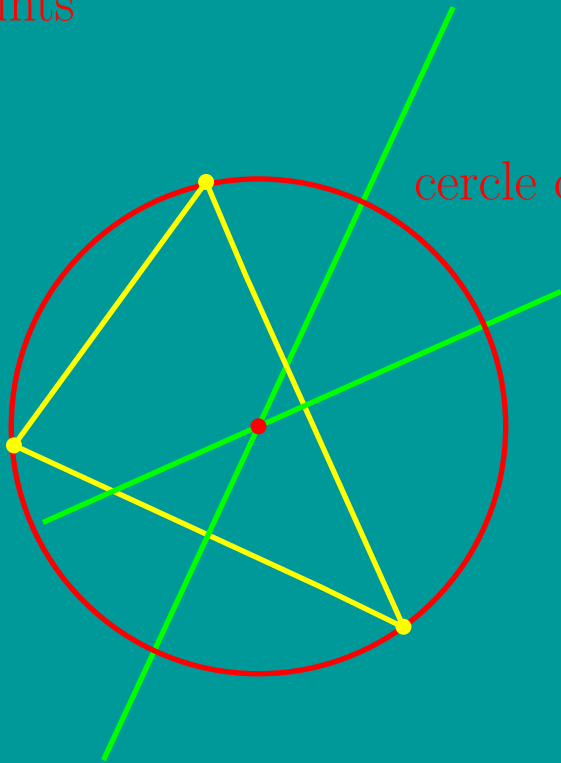
3 points



3 points

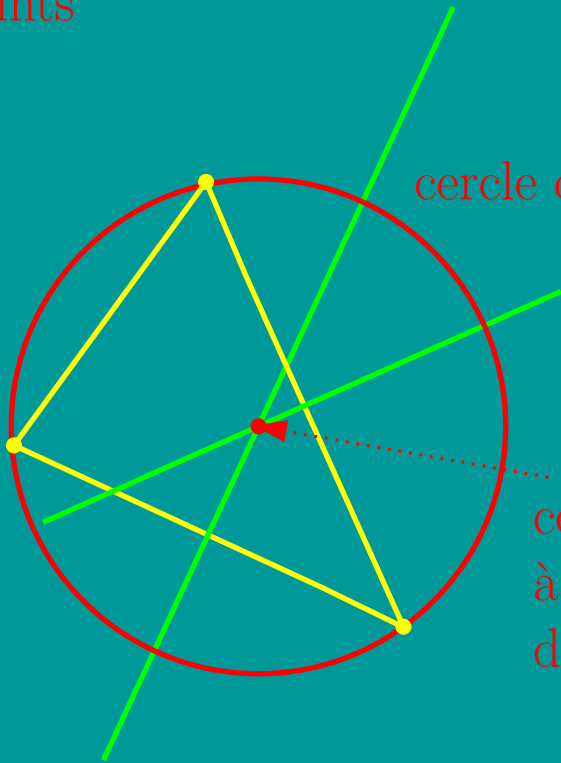


3 points



cercle circonscrit

3 points



cercle circonscrit

centre :
à même distance
des 3 points

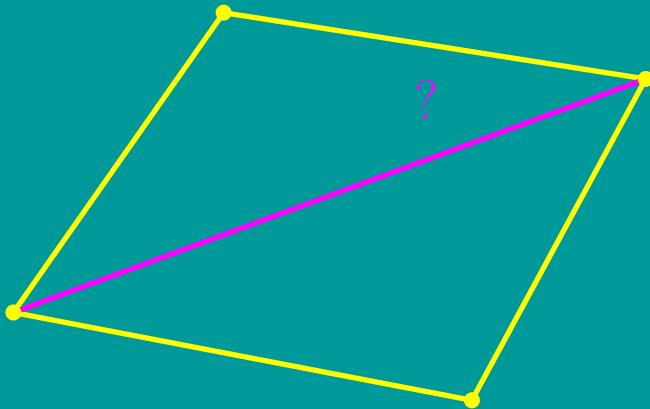


Triangulation de Delaunay

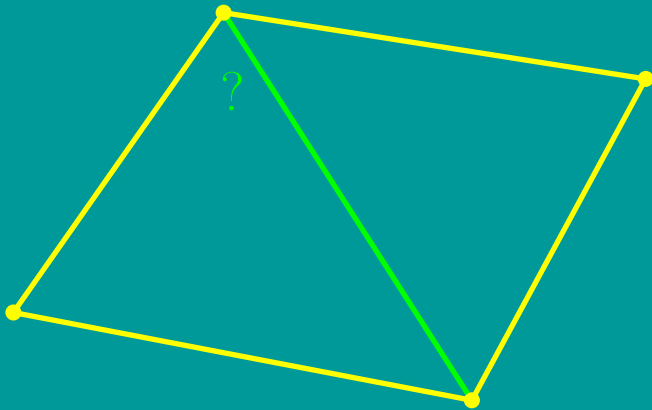
4 points

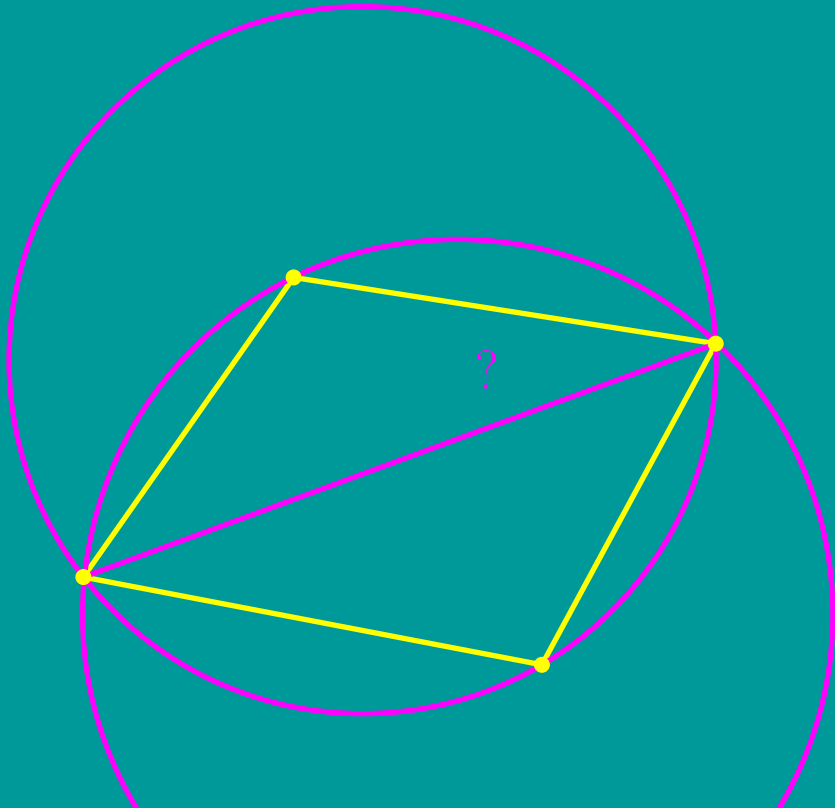


4 points

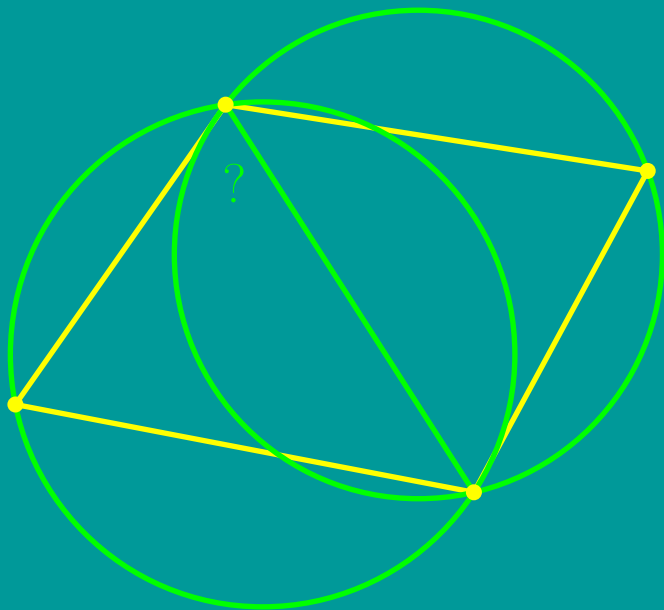


4 points



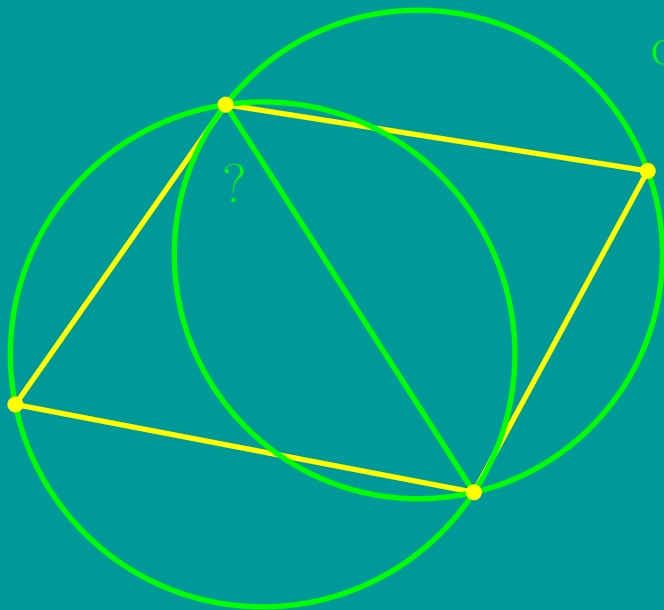


Cercles vides

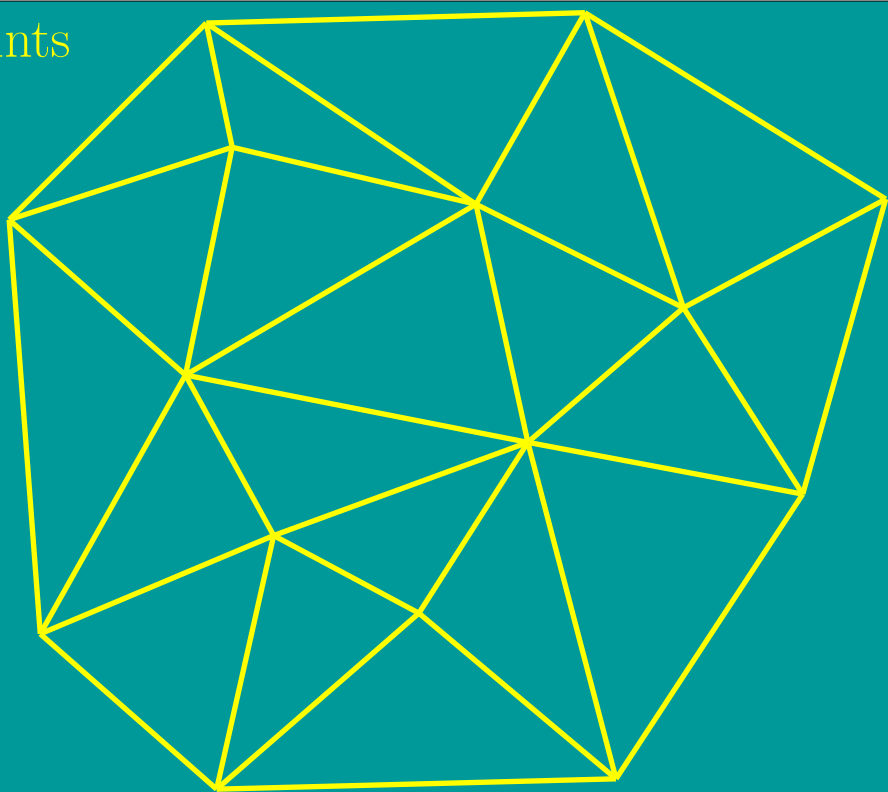


Cercles vides

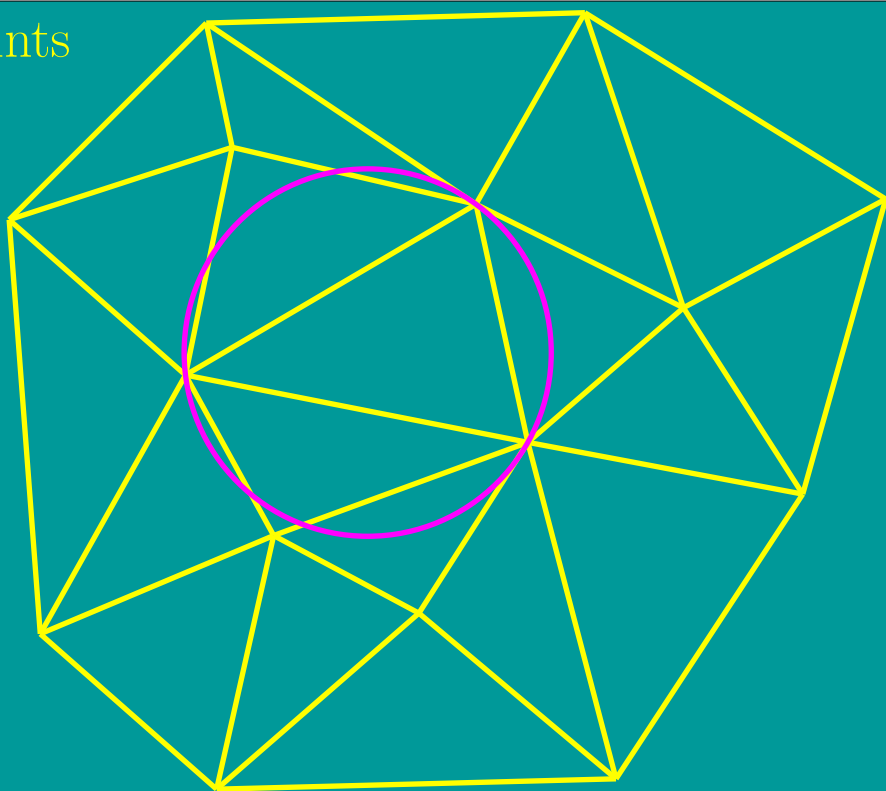
Triangulation
de Delaunay



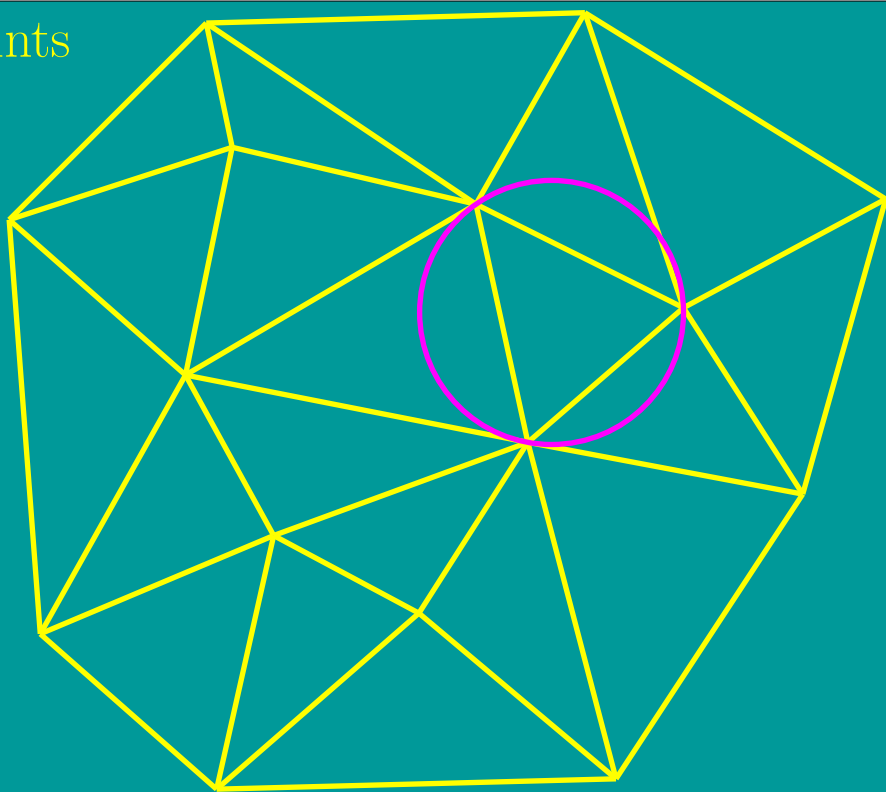
n points



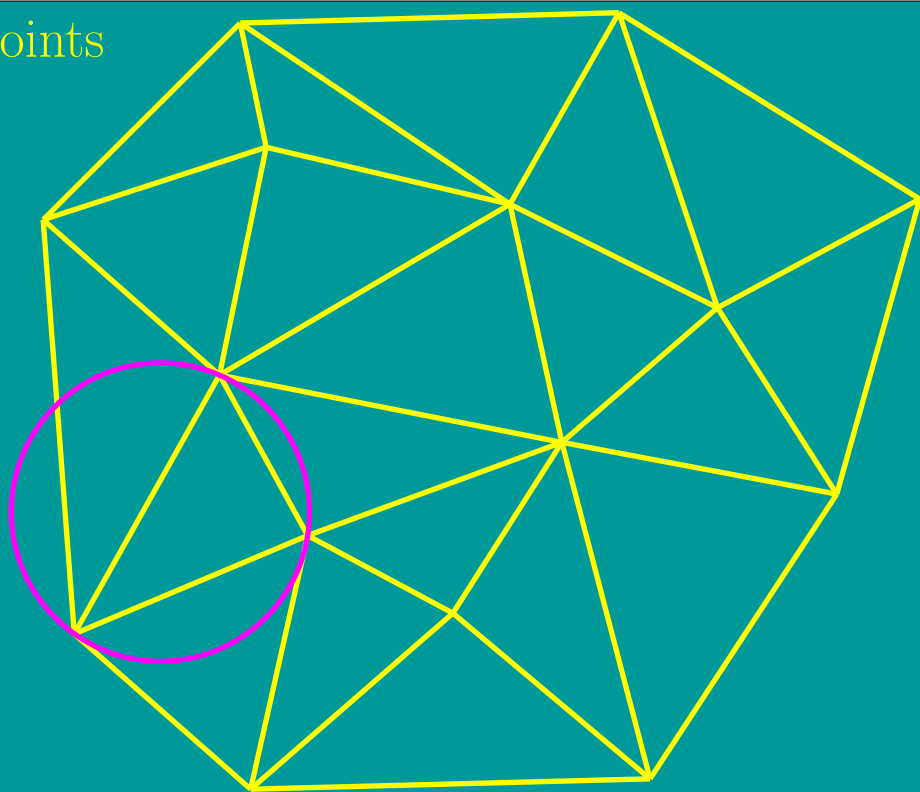
n points



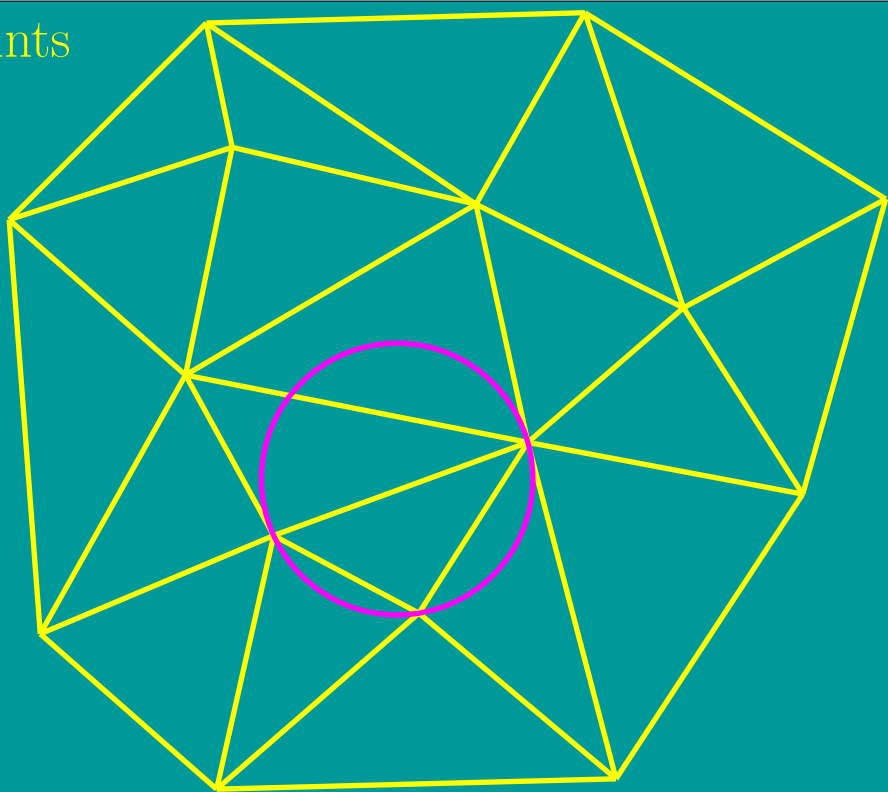
n points



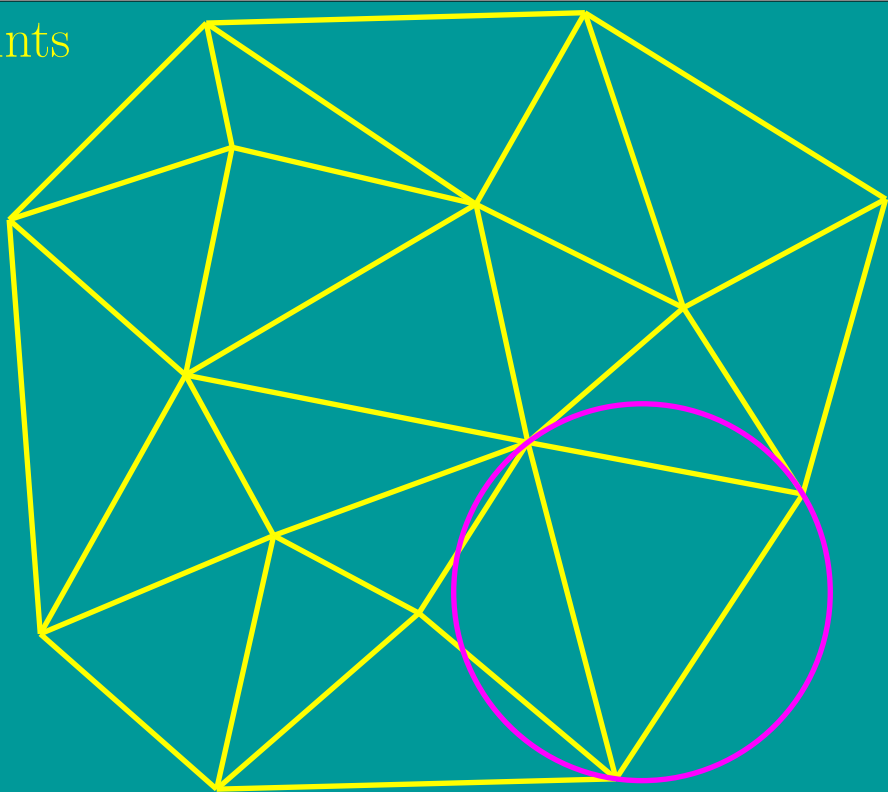
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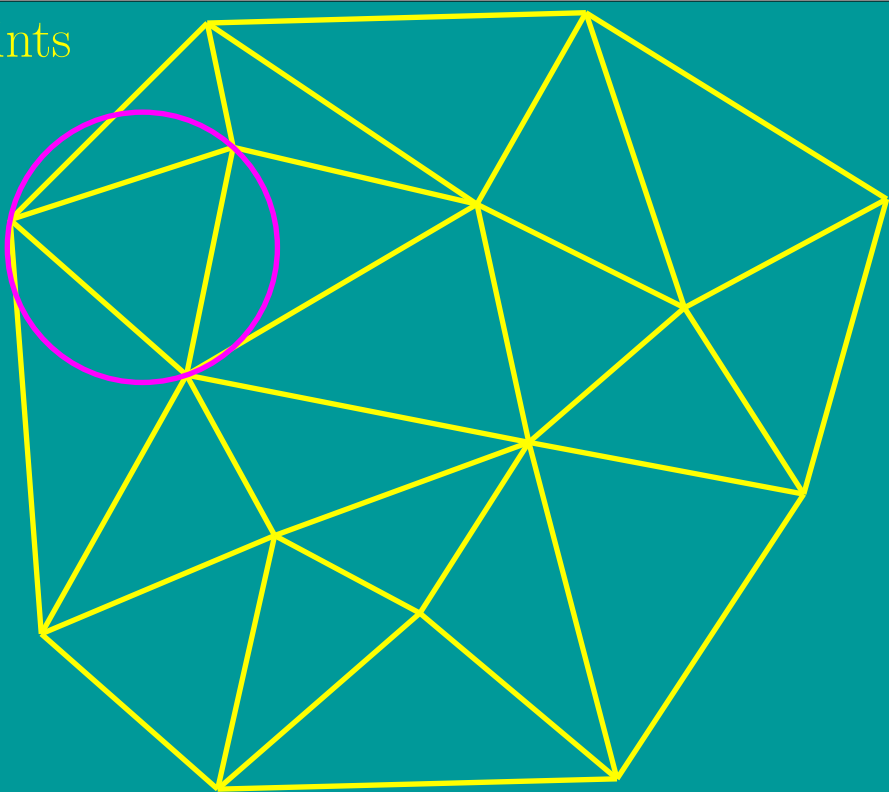
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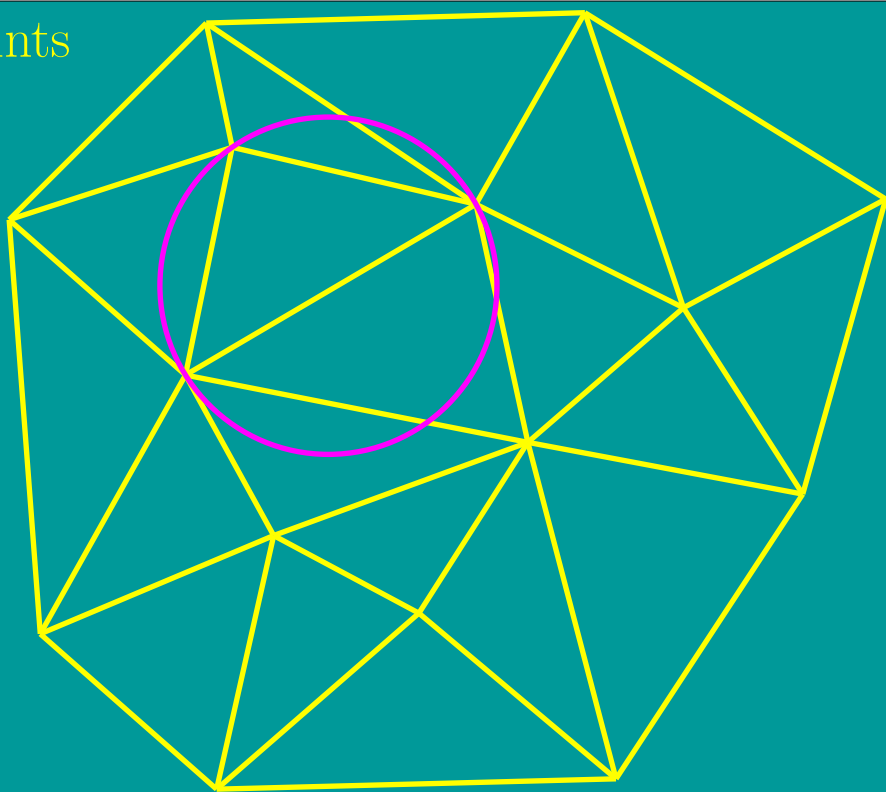
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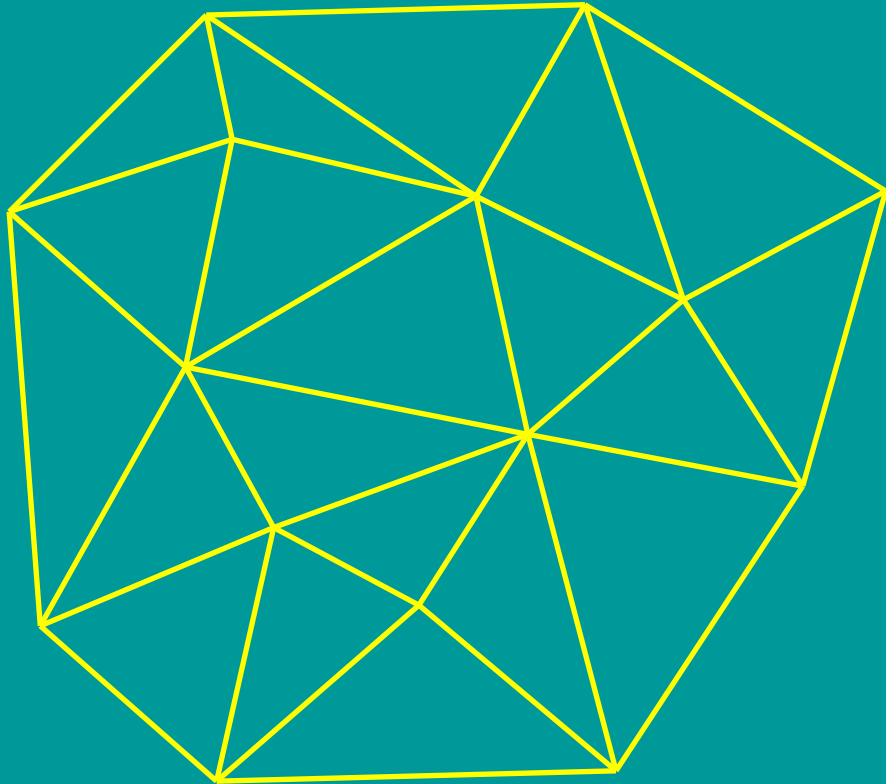


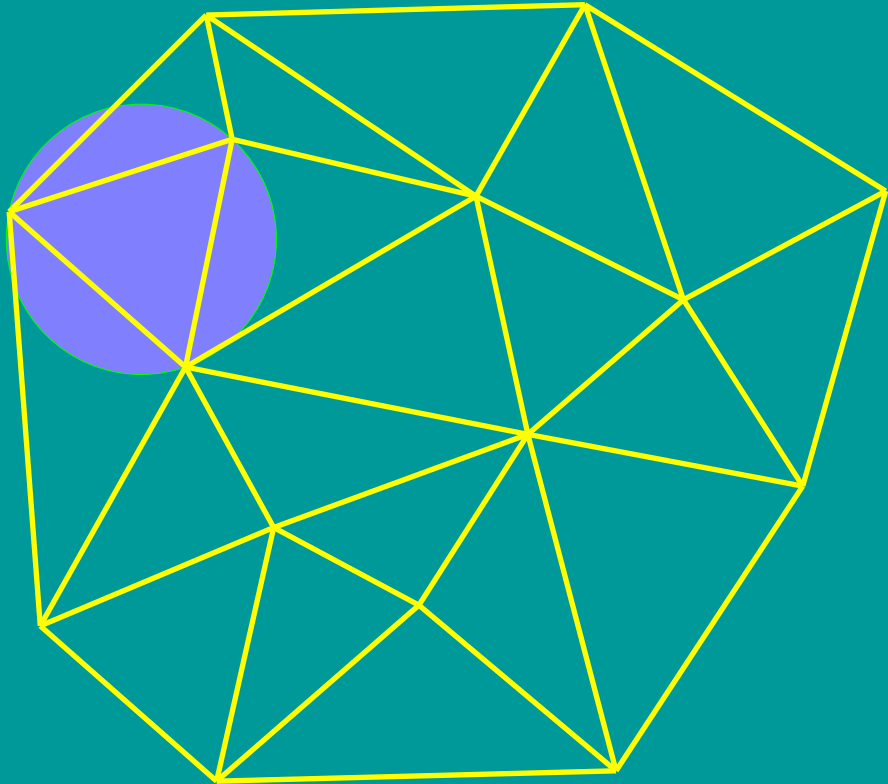
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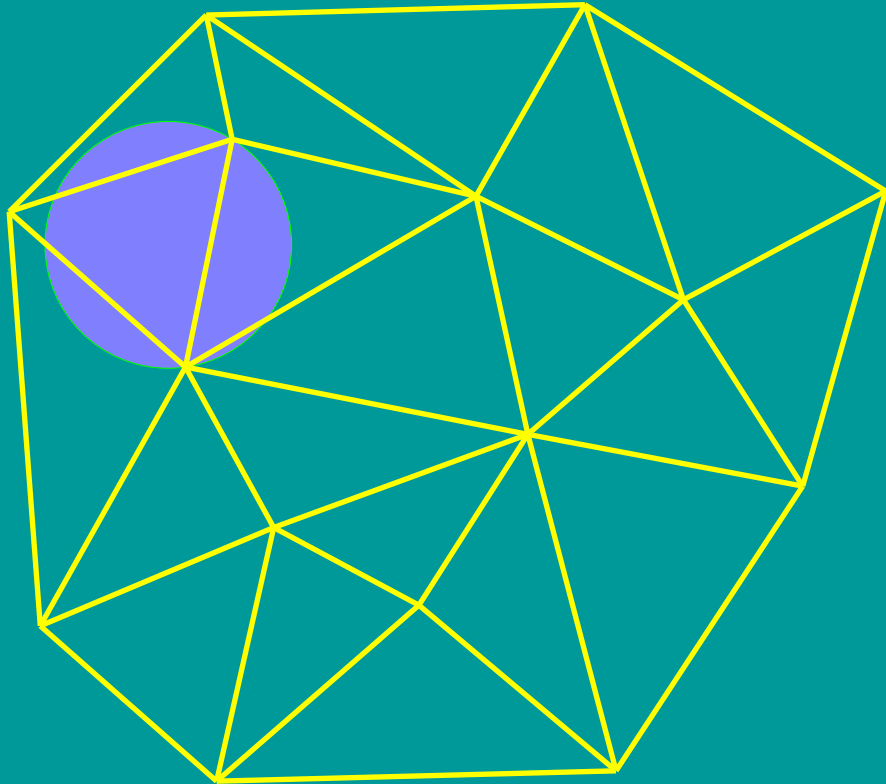


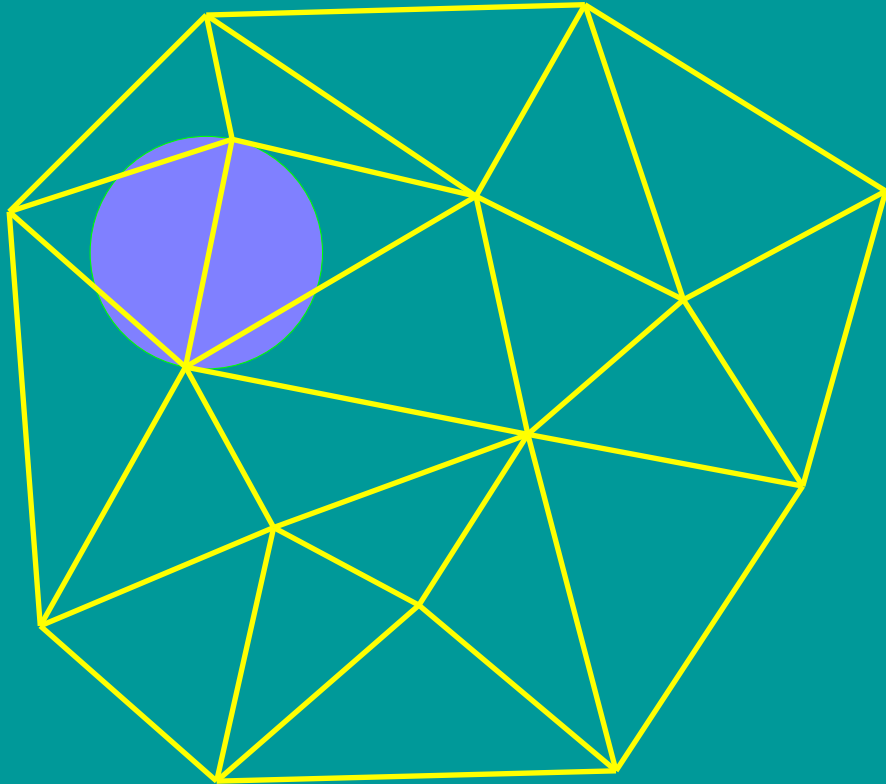
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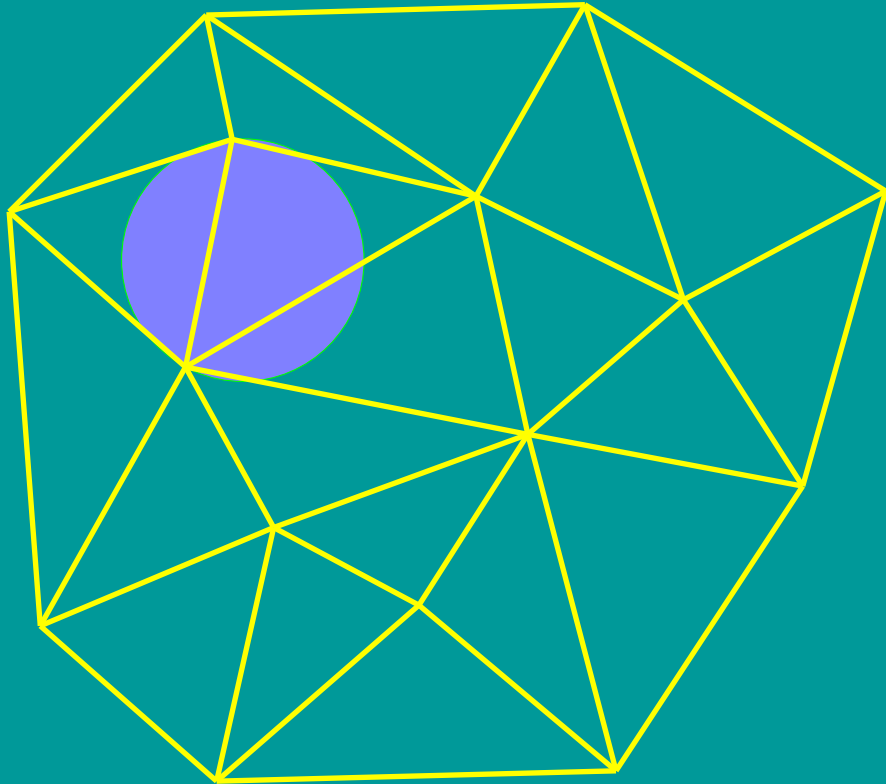


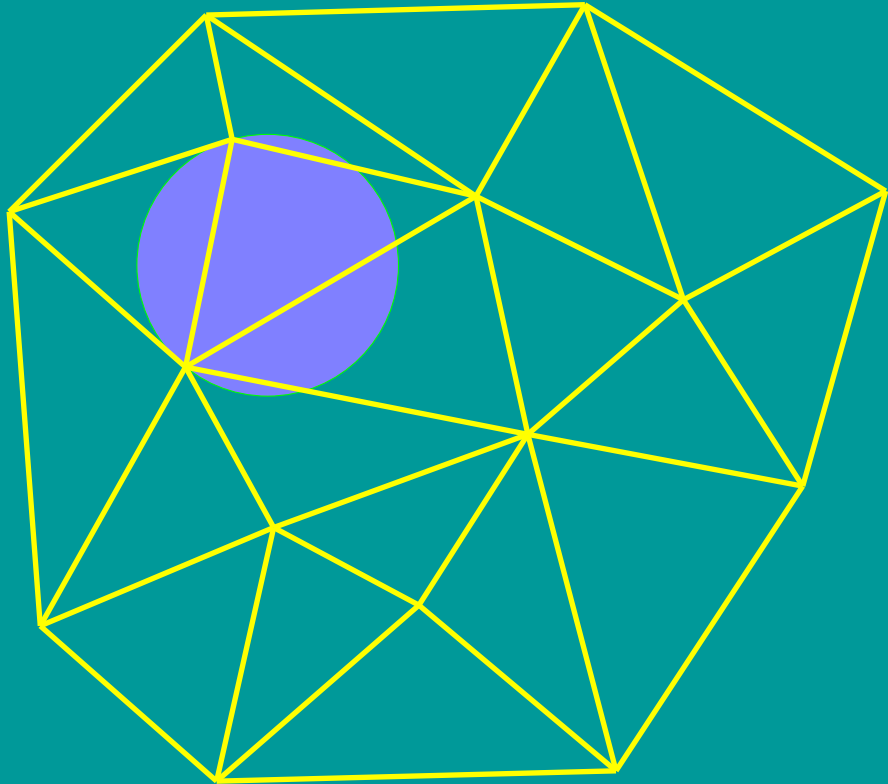


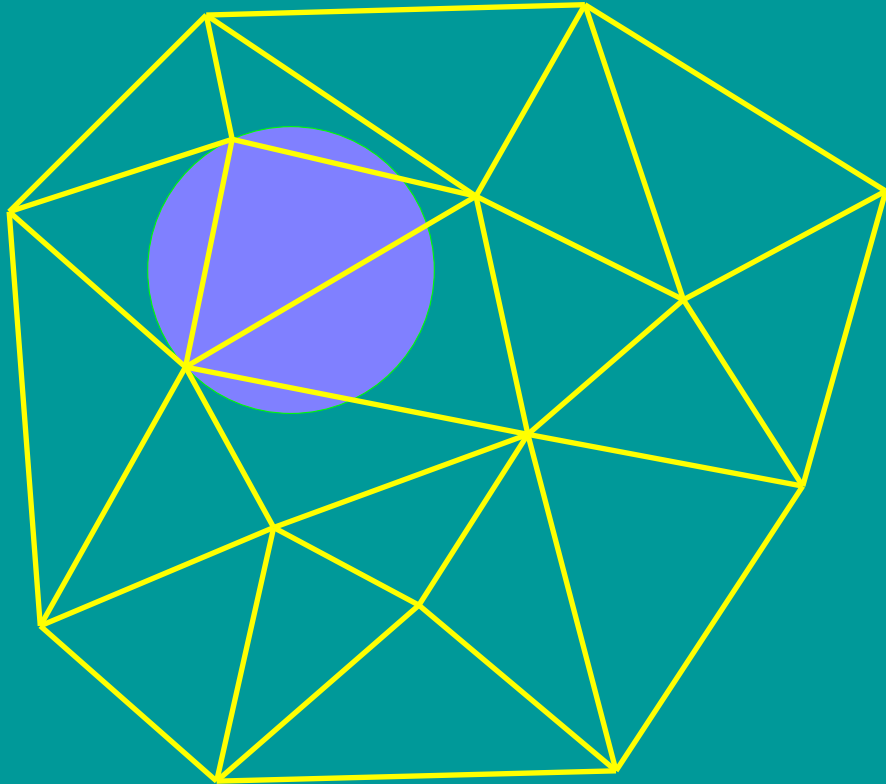


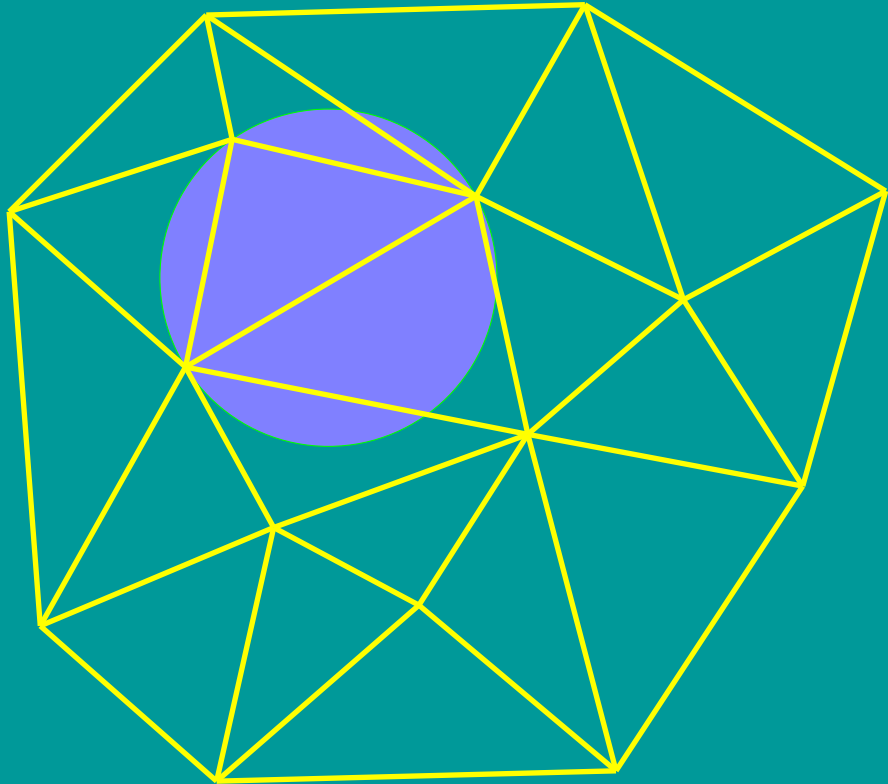












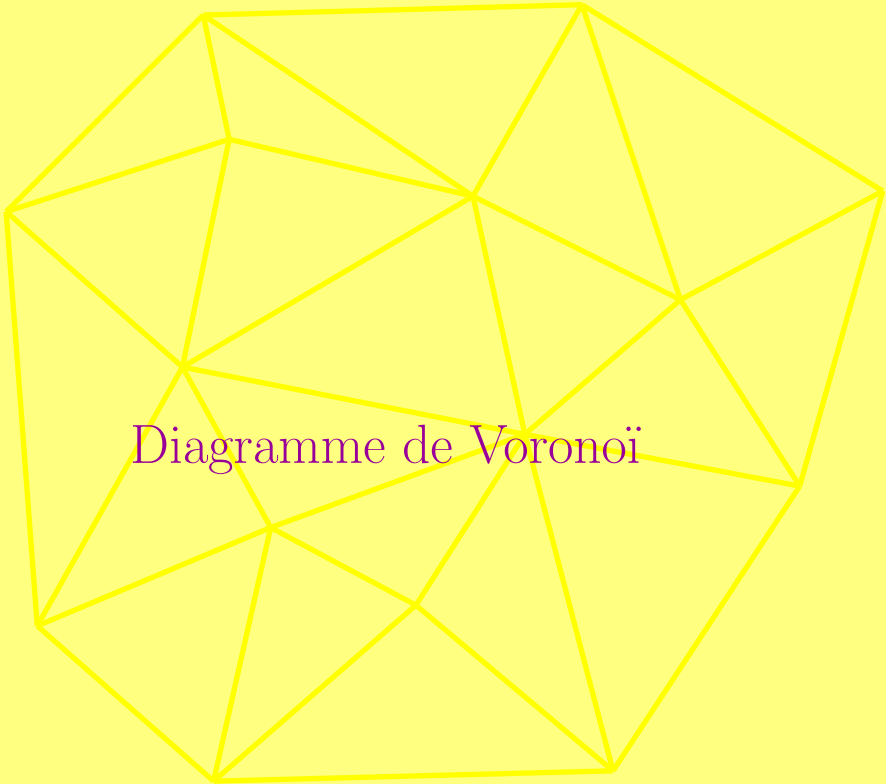
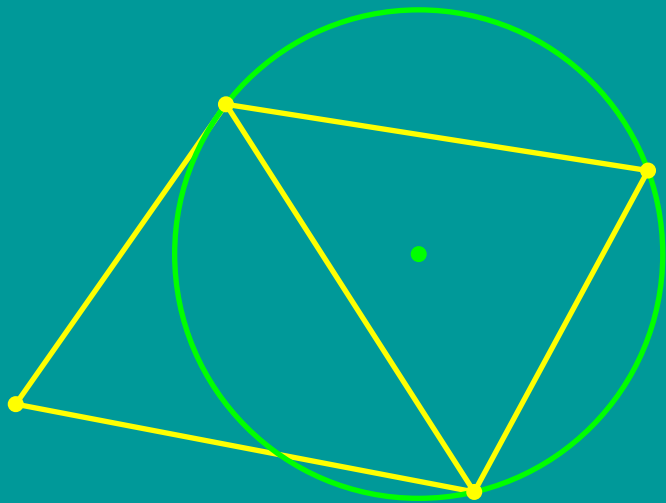
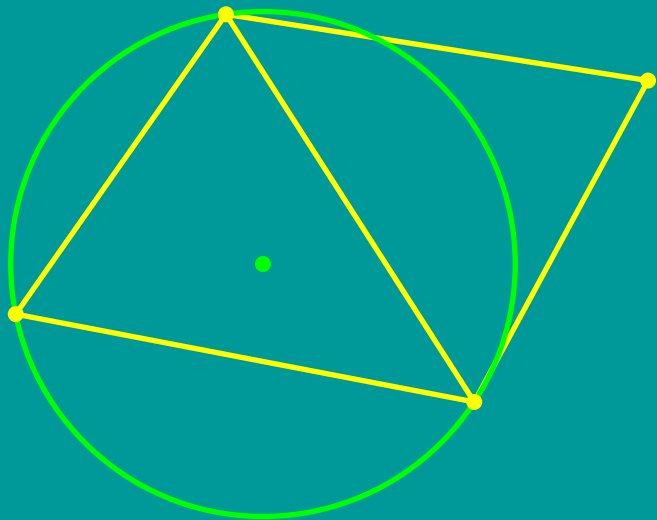
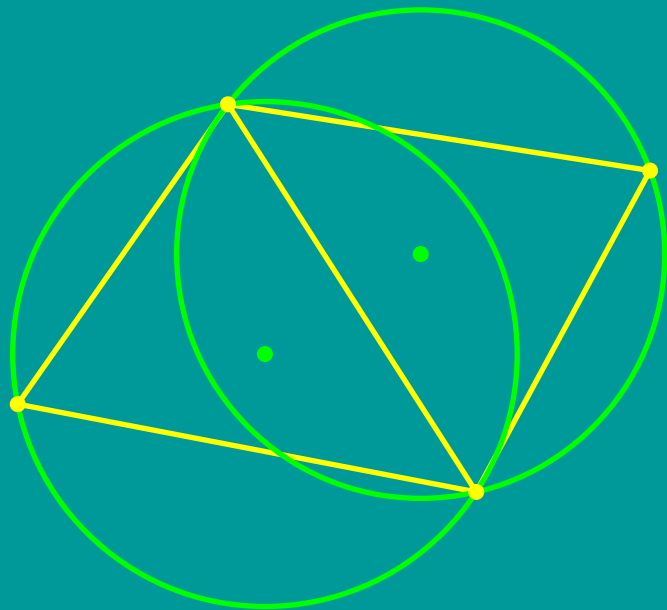
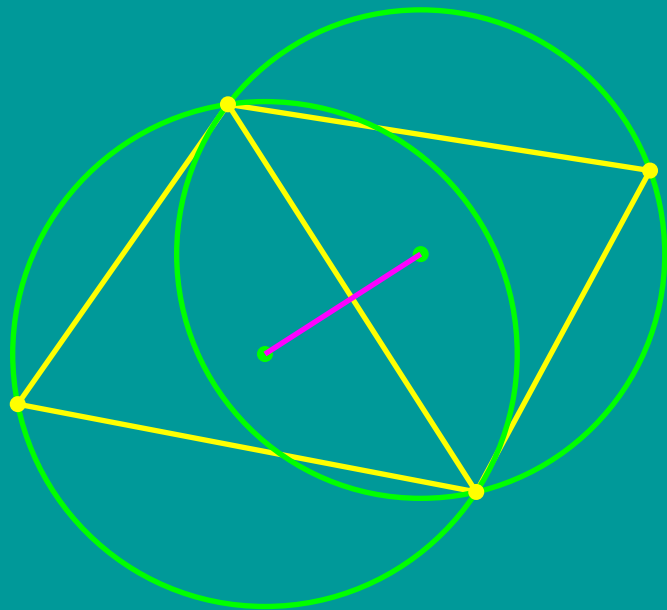


Diagramme de Voronoï

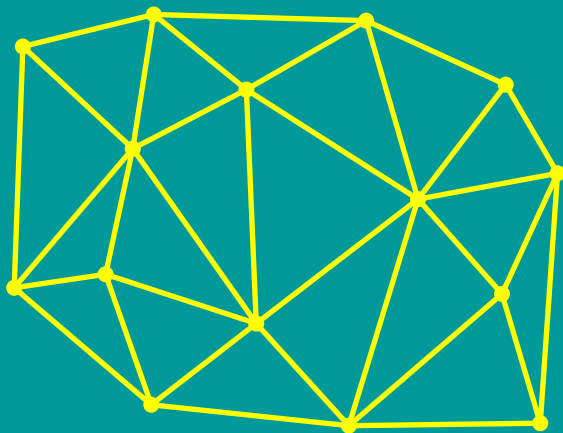






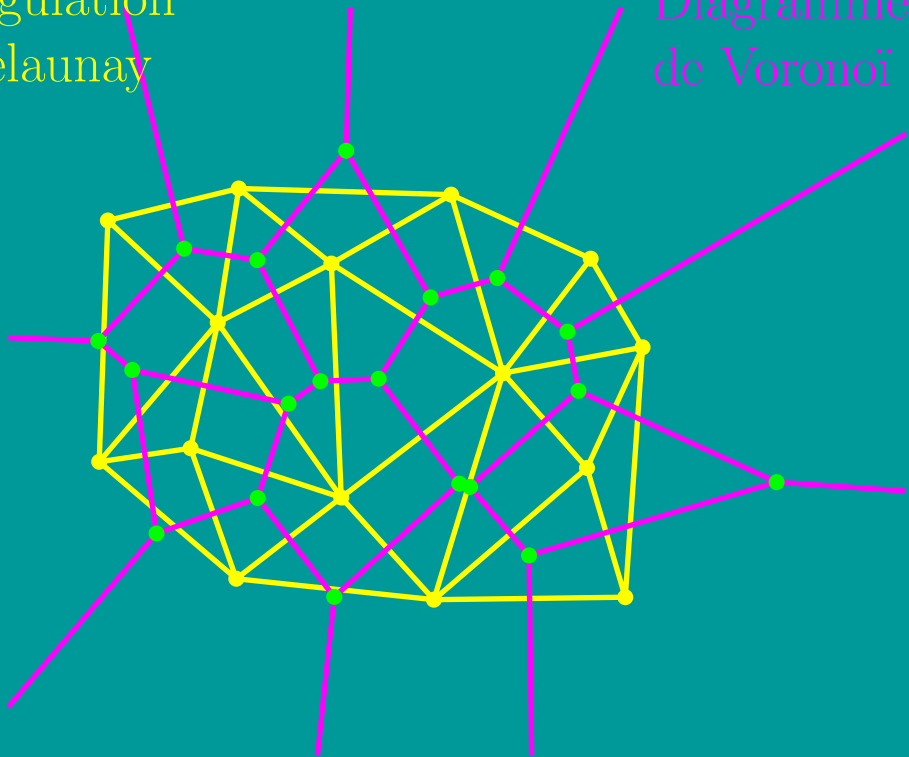


Triangulation de Delaunay



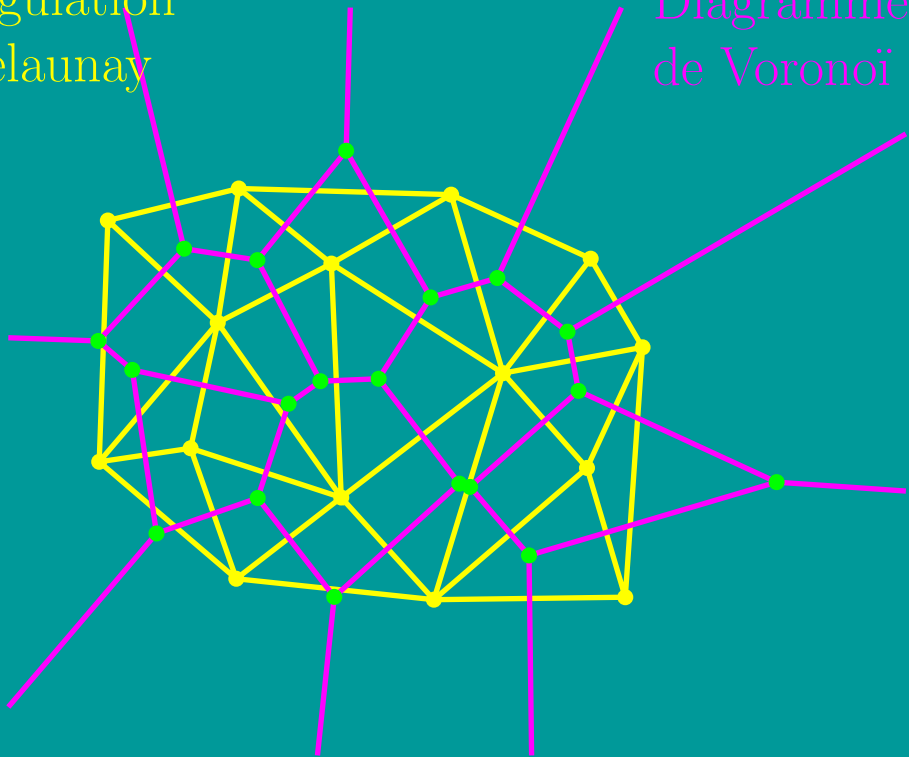
Triangulation
de Delaunay

Diagramme
de Voronoï

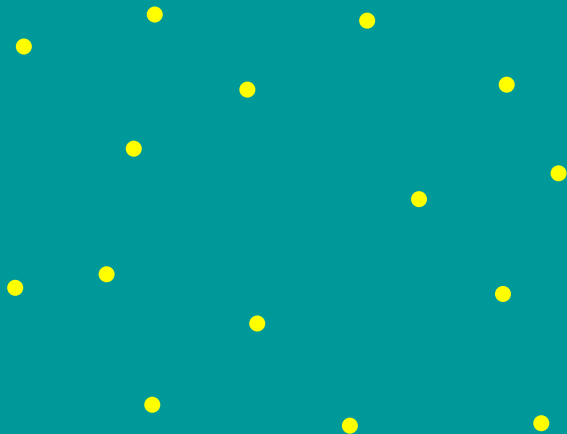


Triangulation
de Delaunay

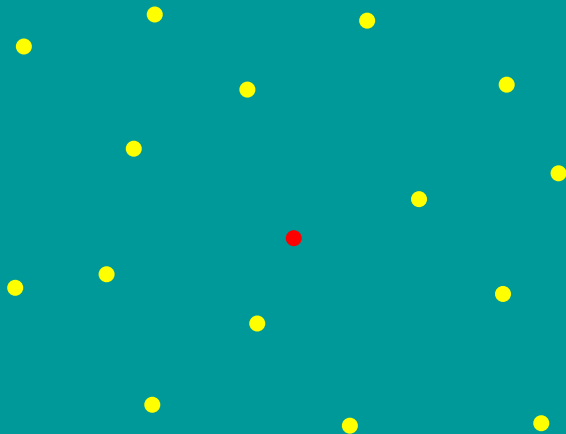
Diagramme
de Voronoï



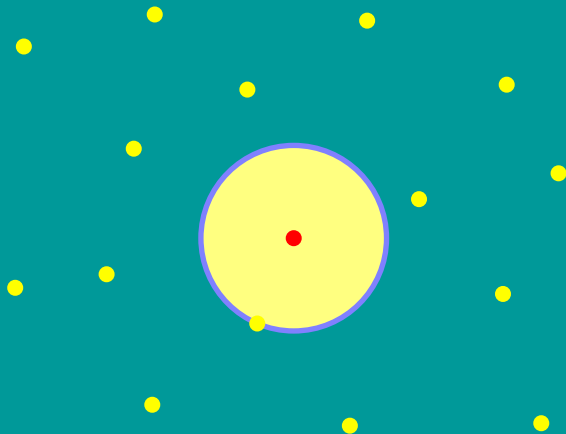
plus proche voisin



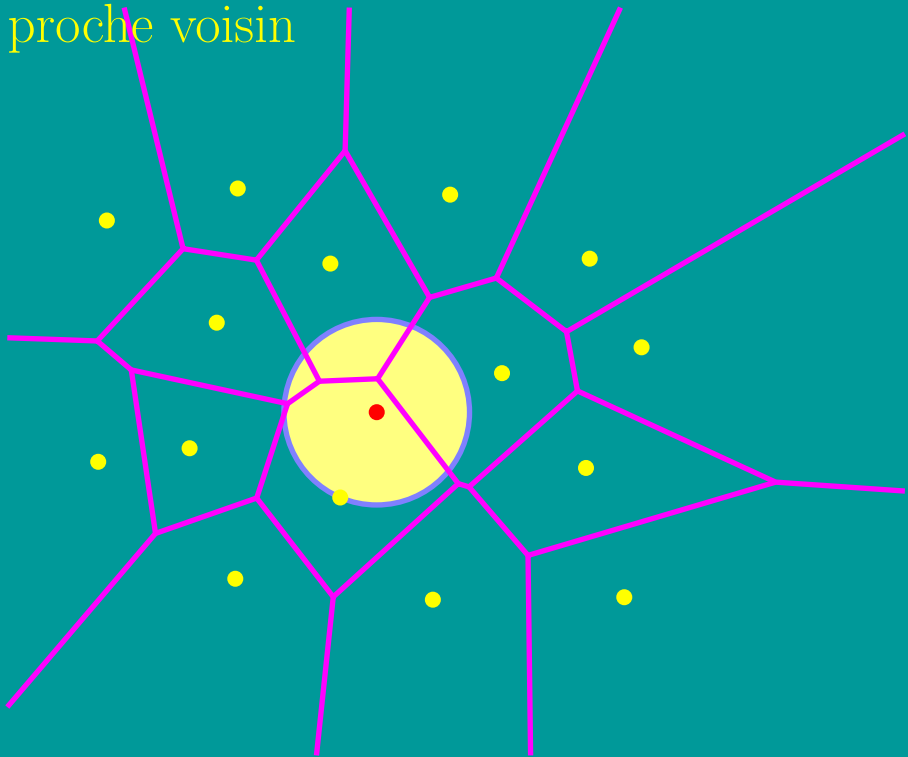
plus proche voisin



plus proche voisin

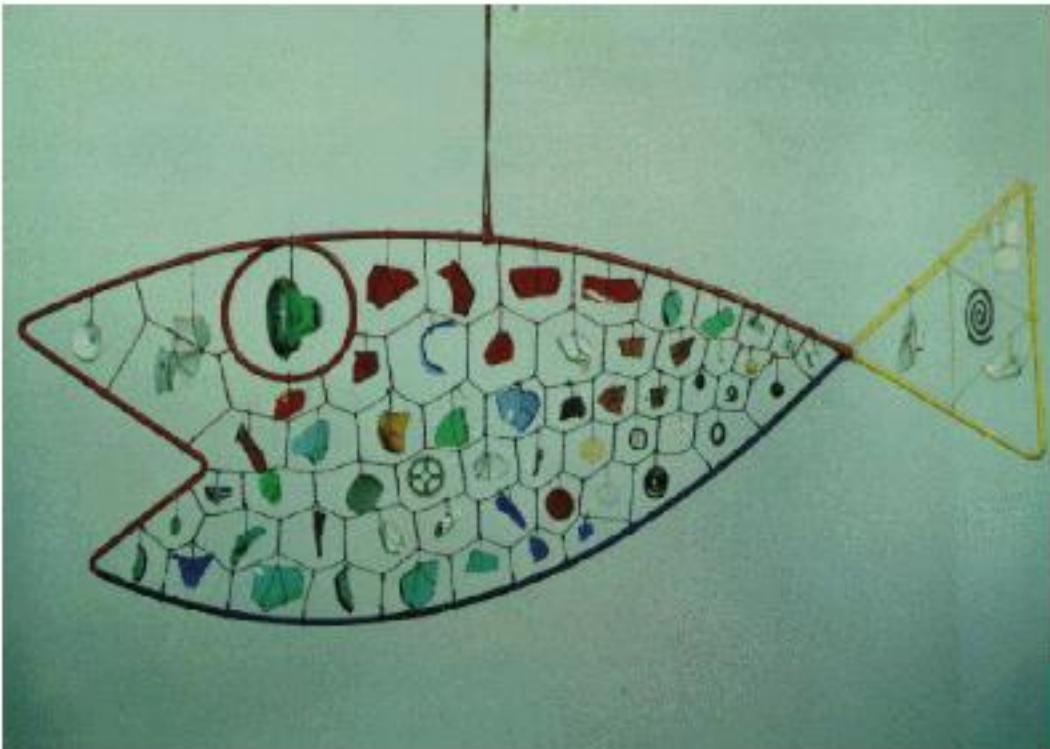
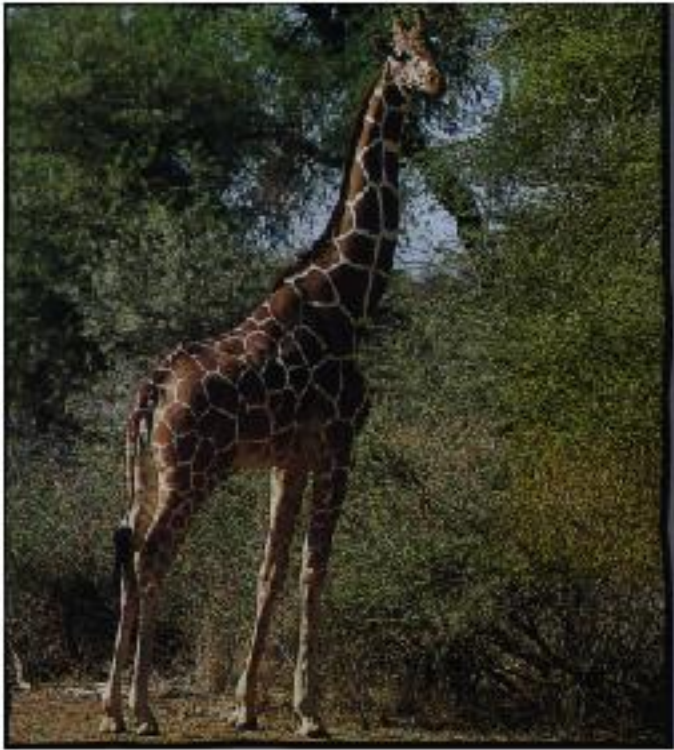


Voronoi
plus proche voisin







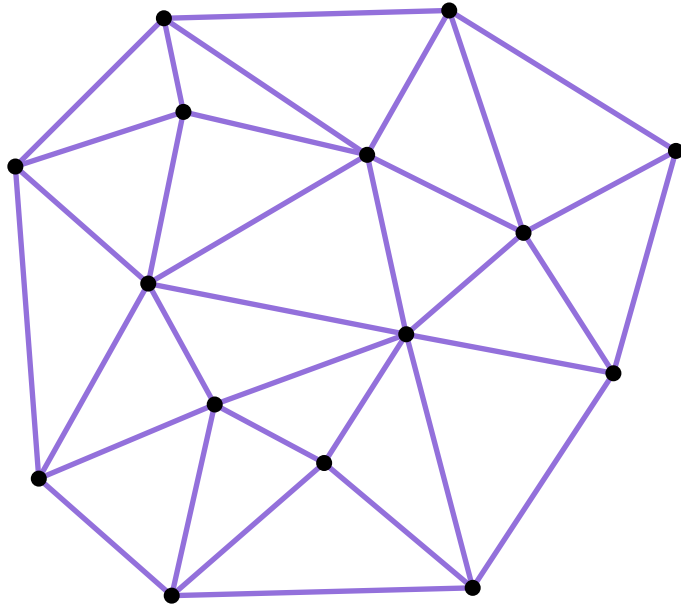




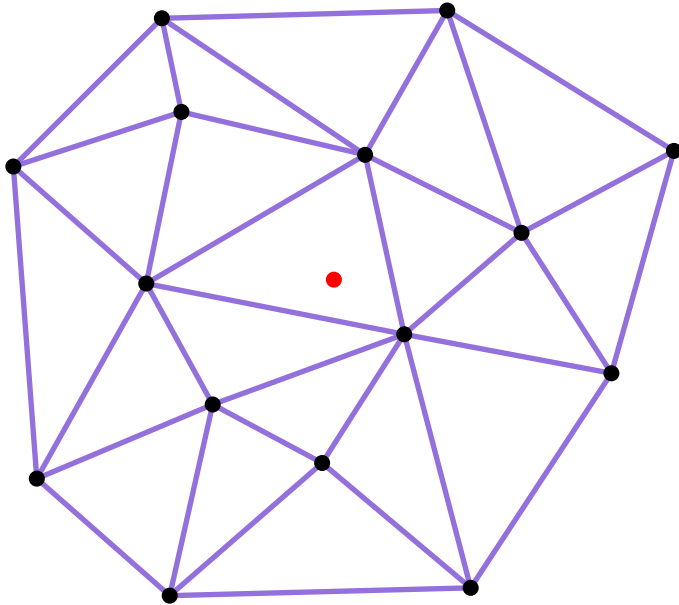
Ajout d'un point

la triangulation de Delaunay

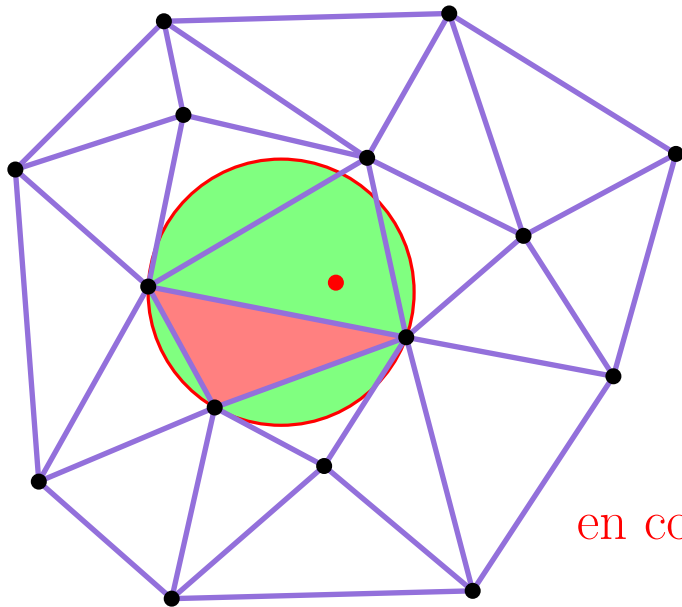
Algorithme incrémental



Algorithme incrémental

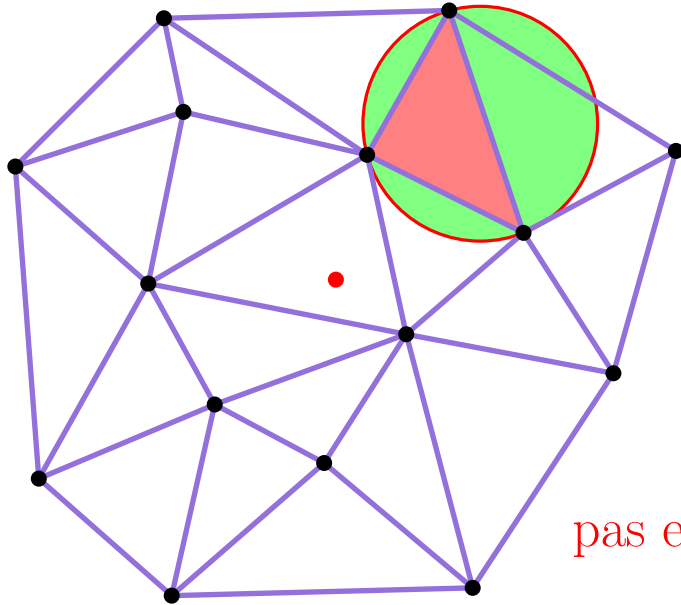


Algorithme incrémental



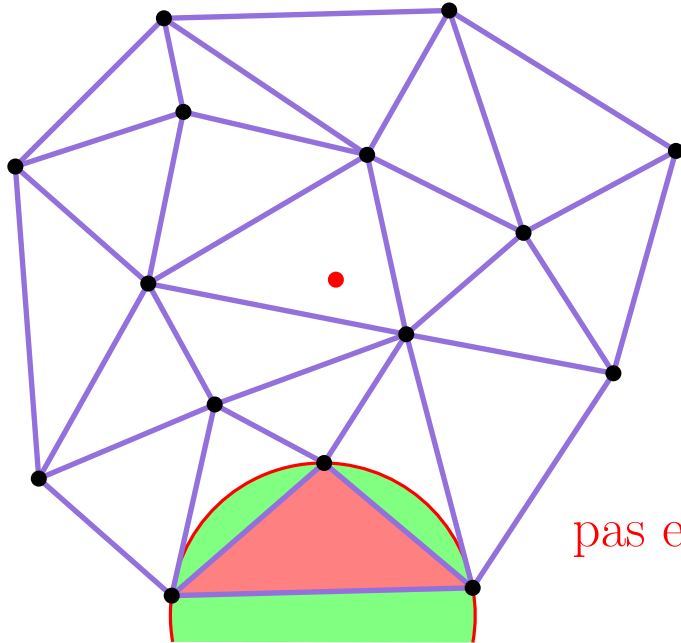
en conflit

Algorithme incrémental



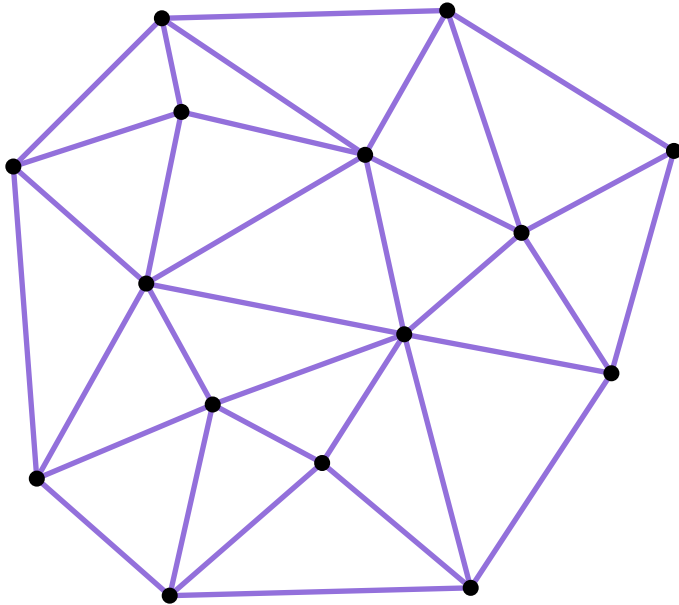
pas en conflit

Algorithme incrémental

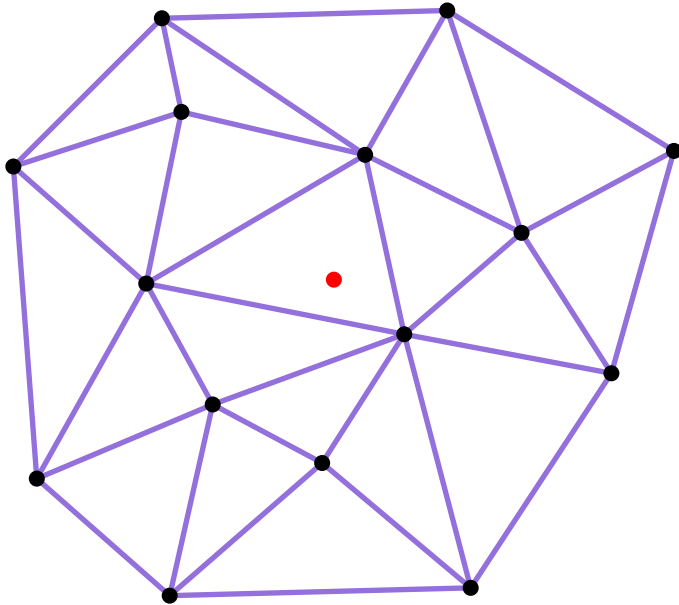


pas en conflit

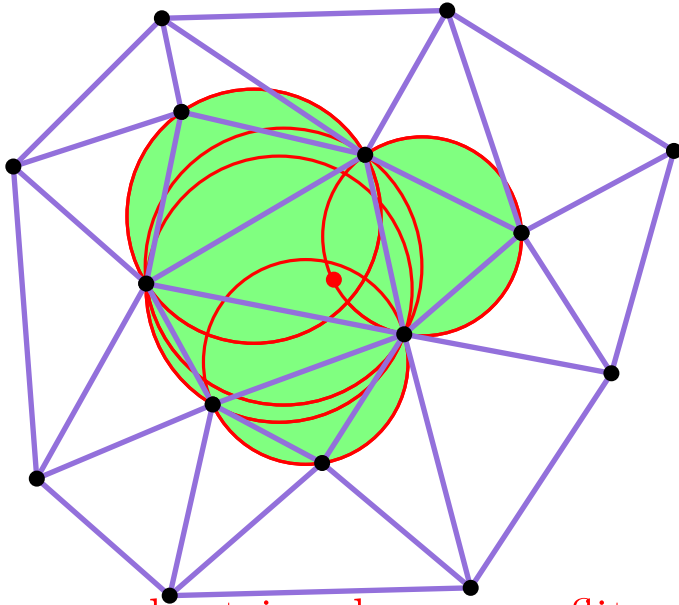
Algorithme incrémental



Algorithme incrémental

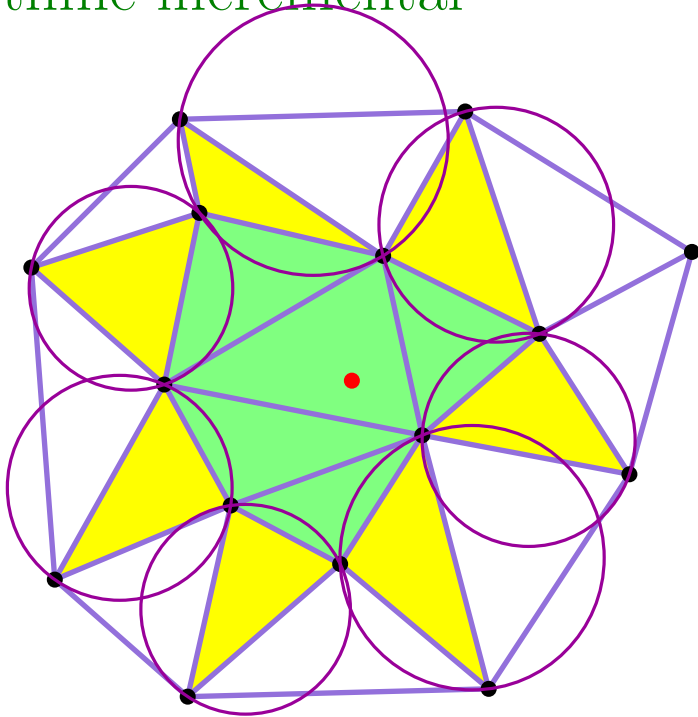


Algorithme incrémental

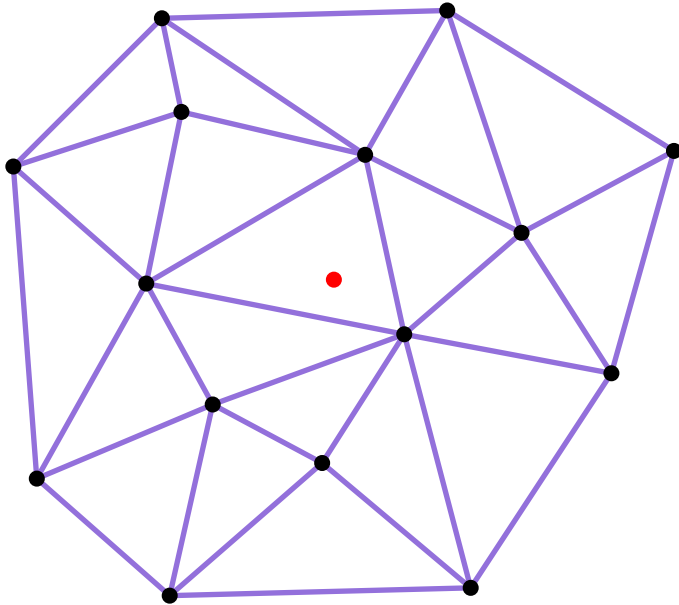


Trouver les triangles en conflit

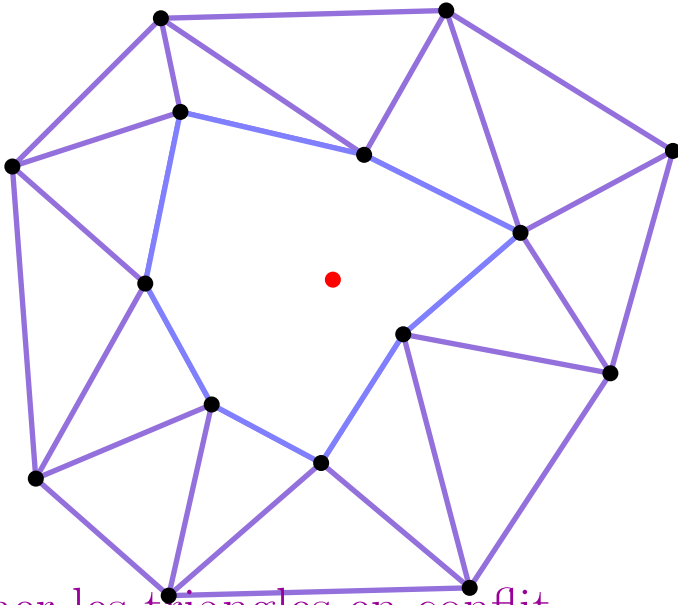
Algorithme incrémental



Algorithme incrémental

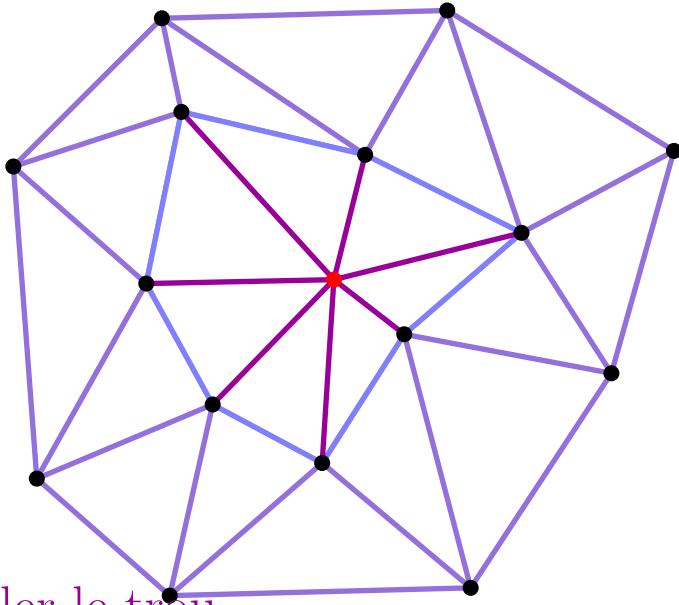


Algorithme incrémental



Supprimer les triangles en conflit

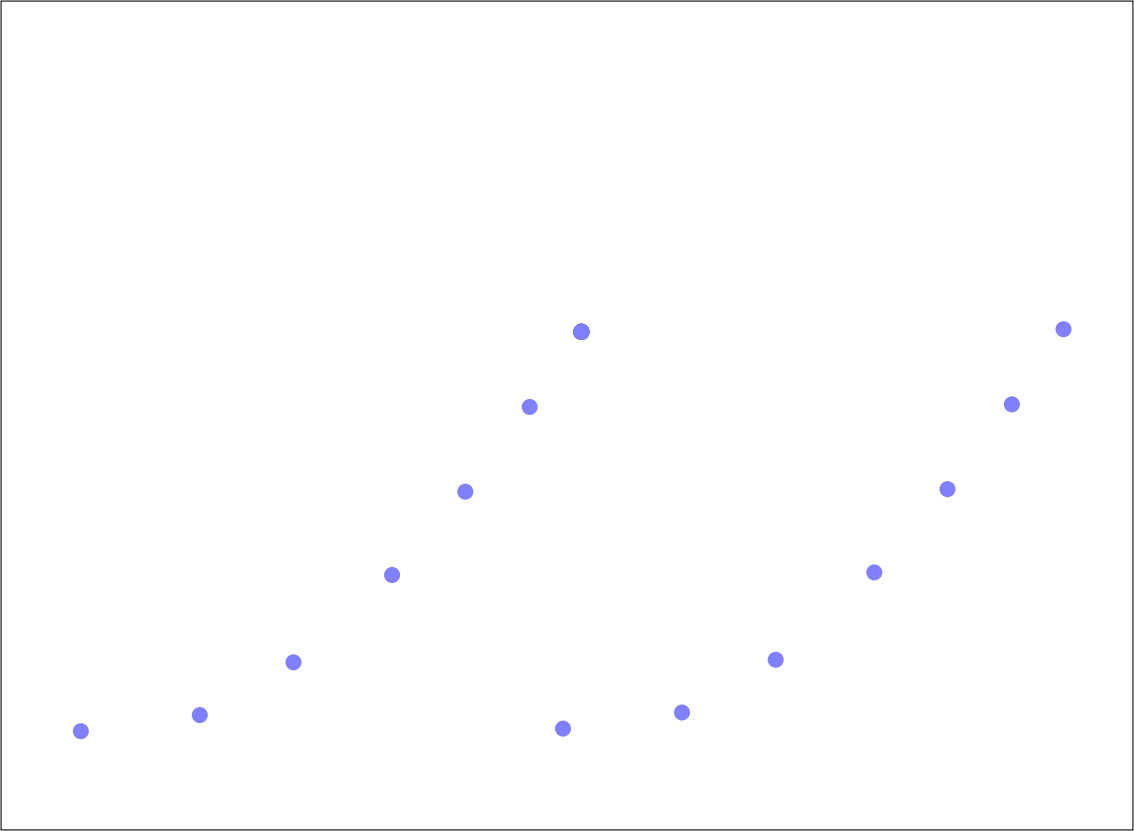
Algorithme incrémental



Trianguler le trou

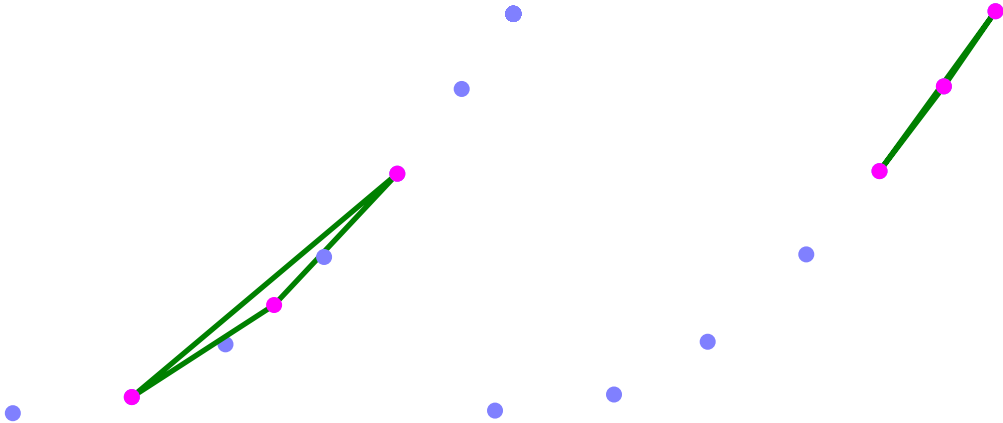


Randomisation

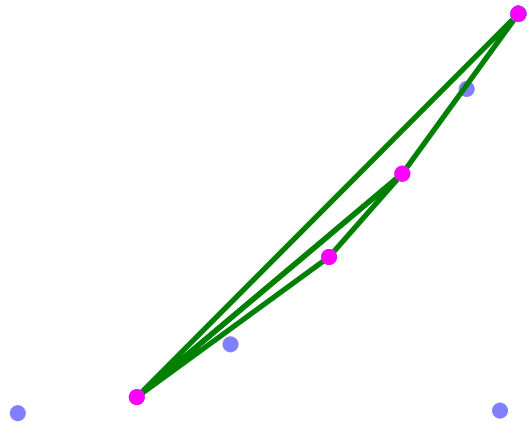


1

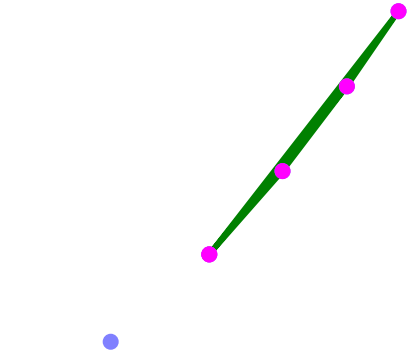
1



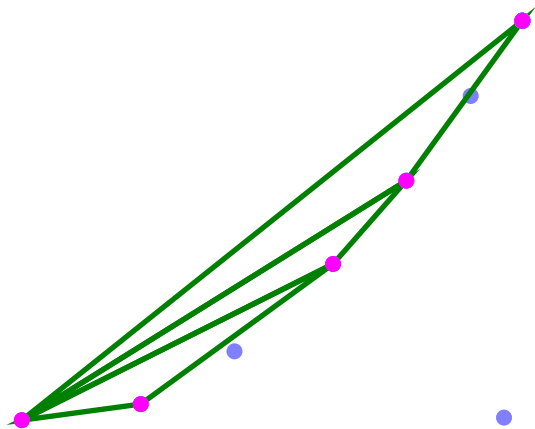
1+1



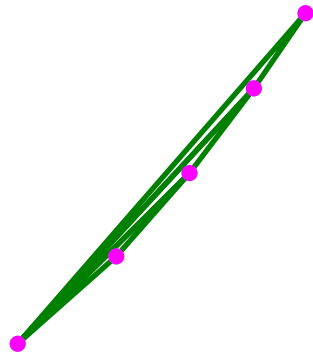
1+2



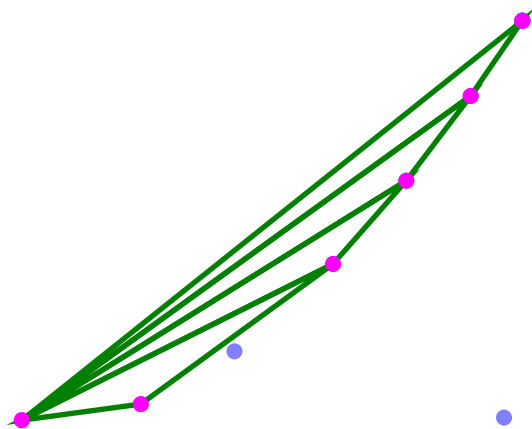
1+1+3



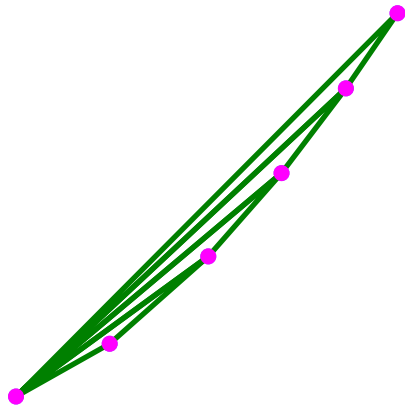
1+2+3



$1+1+3+2$

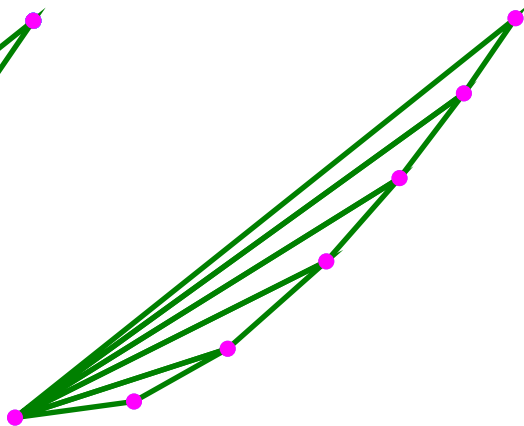
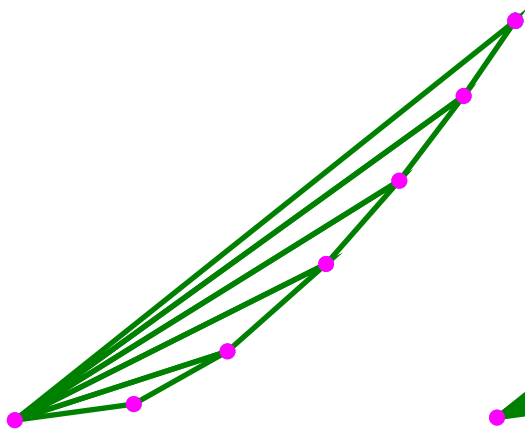


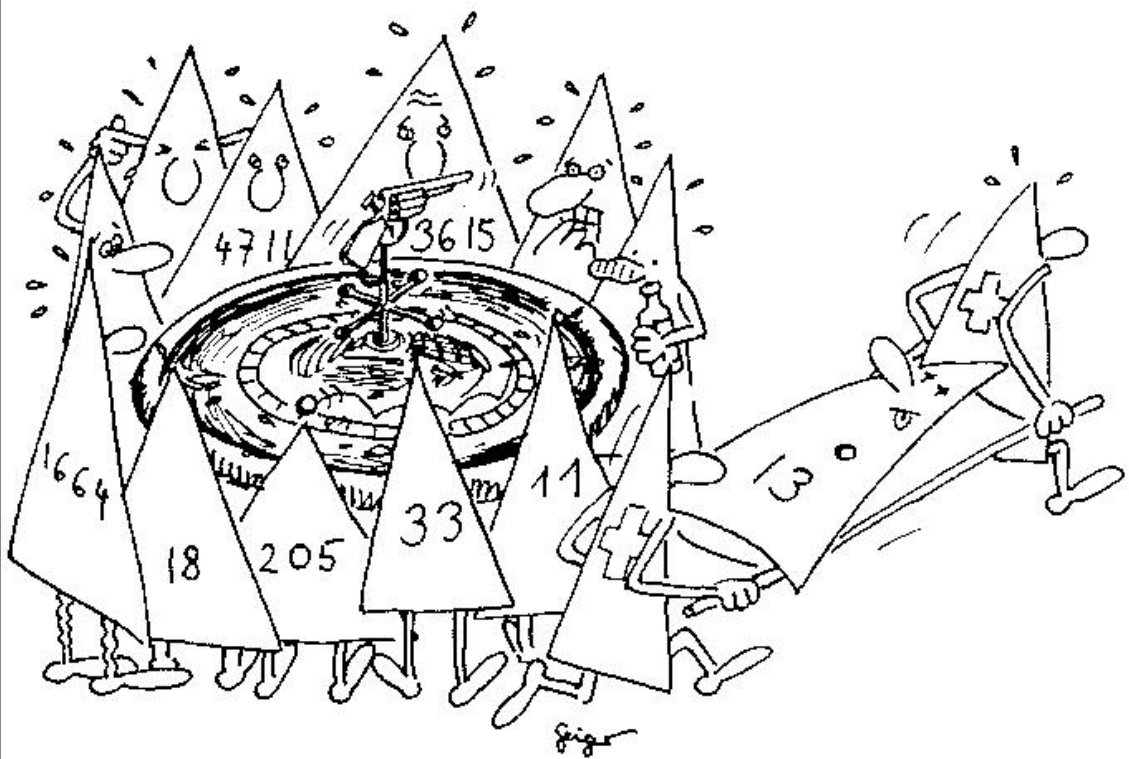
$1+2+3+4$




$$1+1+3+2+2=9$$

$$1+2+3+4+5=15$$





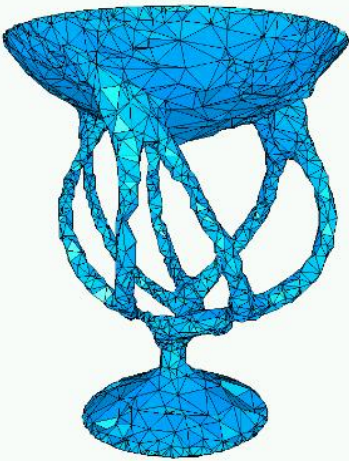
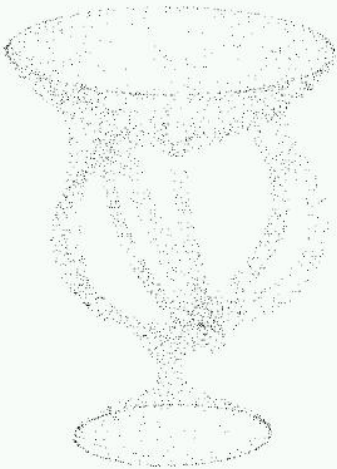


Quelques applications de
la triangulation de Delaunay

Applications

Applications

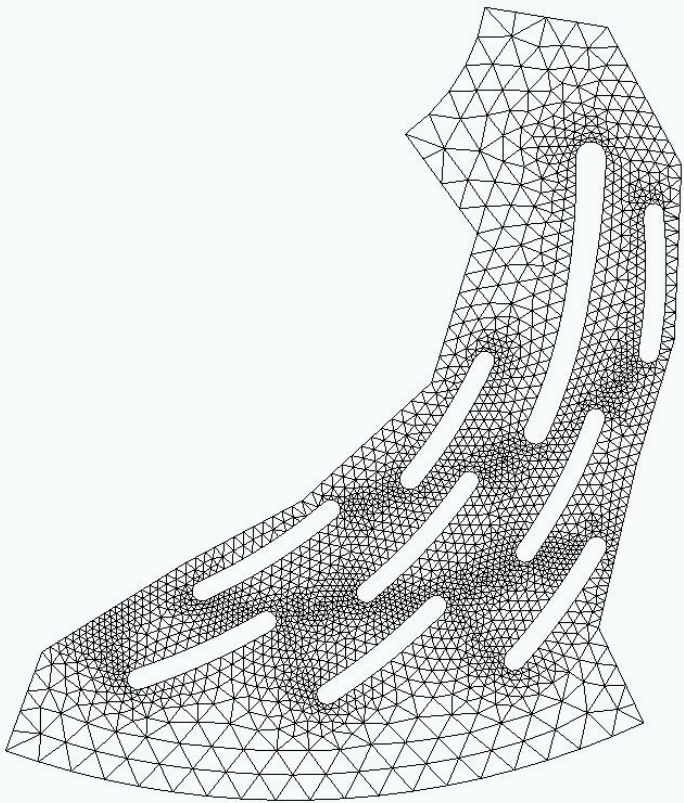
Reconstruction



Applications

Reconstruction

Maillage



Applications

Reconstruction

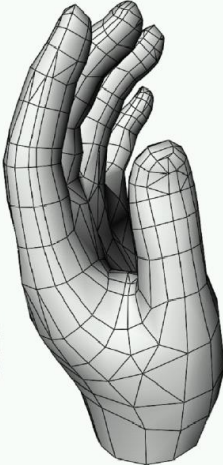
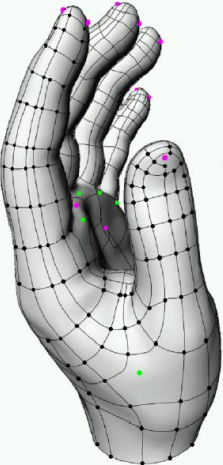
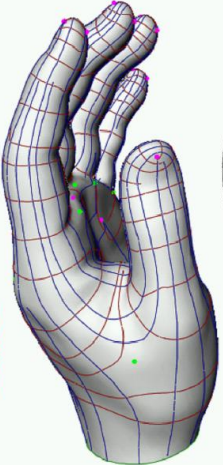
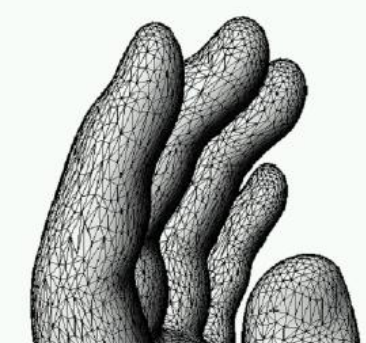
Maillage / Remaillage



Applications

Reconstruction

Maillage / Remaillage

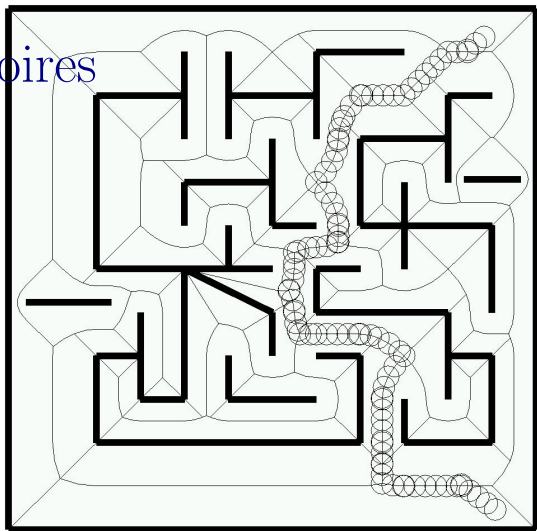


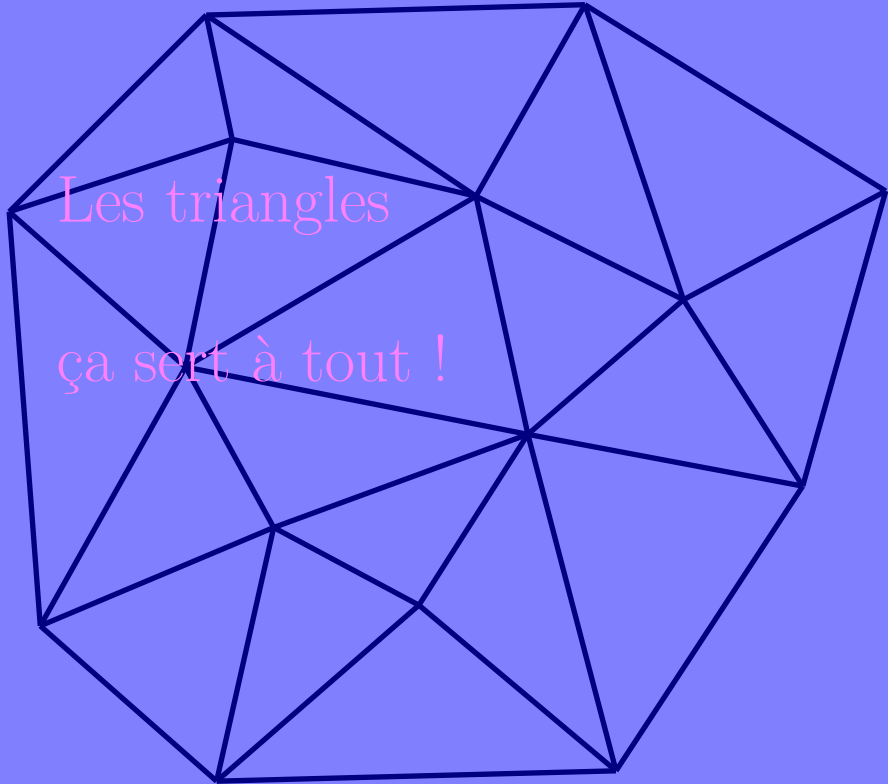
Applications

Reconstruction

Maillage / Remaillage

Planification de trajectoires





Les triangles

ça sert à tout !

