

EVERGREEN

# Tree advisor

EBEC 2021





# PLAN

Présentation de l'équipe

Enjeux

Technologies utilisées

Objectifs

Usage

Conclusion

# La Team Evergreen



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Manager

## NOTRE BUT

Faciliter la localisation des  
arbres et le travail des  
botanistes



## TECHNOLOGIES UTILISÉES

- OpenStreetMap
- Overpass API
- Une machine virtuelle Viarézo
- APIs : GeoPy et OverPy

# Fonctionnement

## 3 ETAPES SIMPLES



Lire la position  
d'un arbre



Lancer la query  
avec l'API

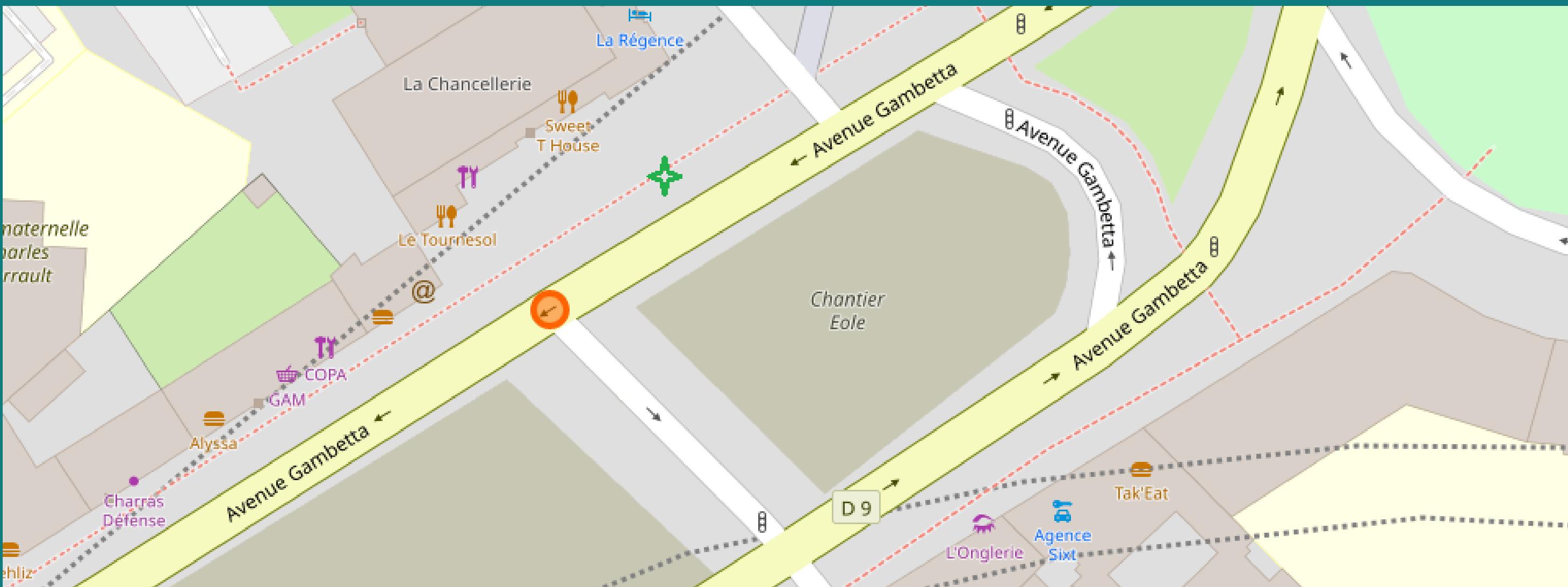


Traiter la réponse

# Objectif 1

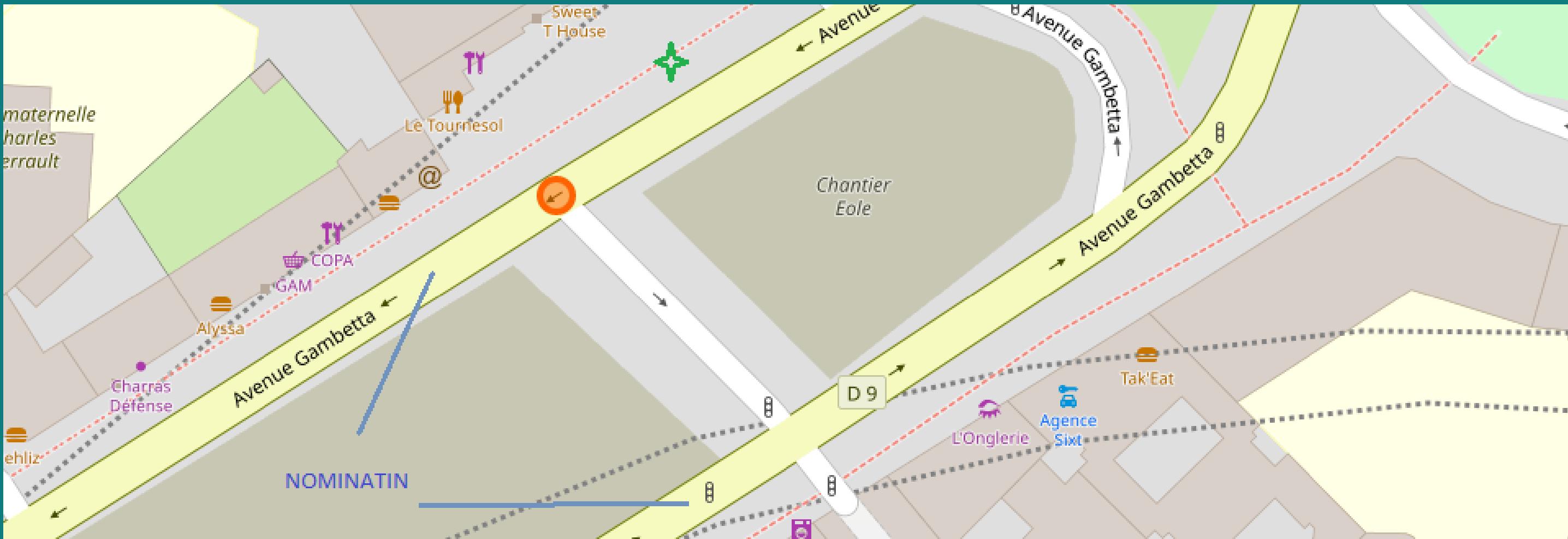


# DESCRIPTION DU CODE



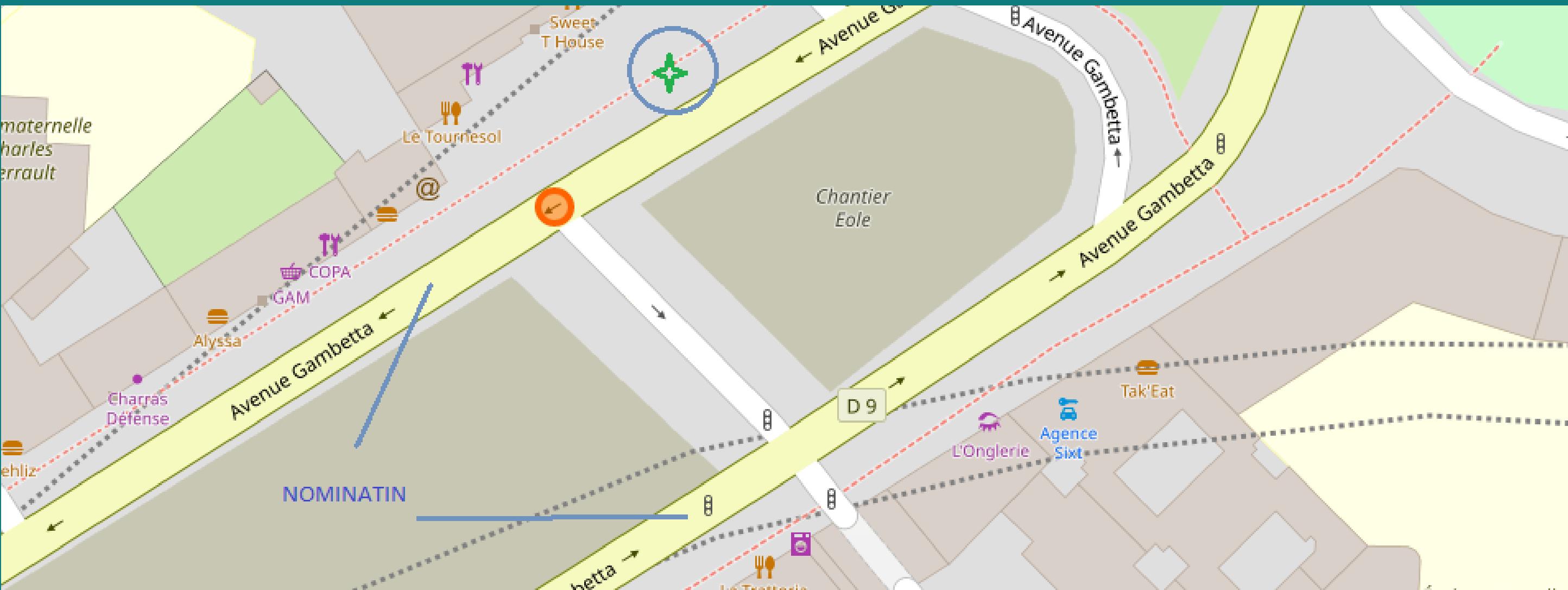
Team advisor the guide for botanists...

# DESCRIPTION DU CODE



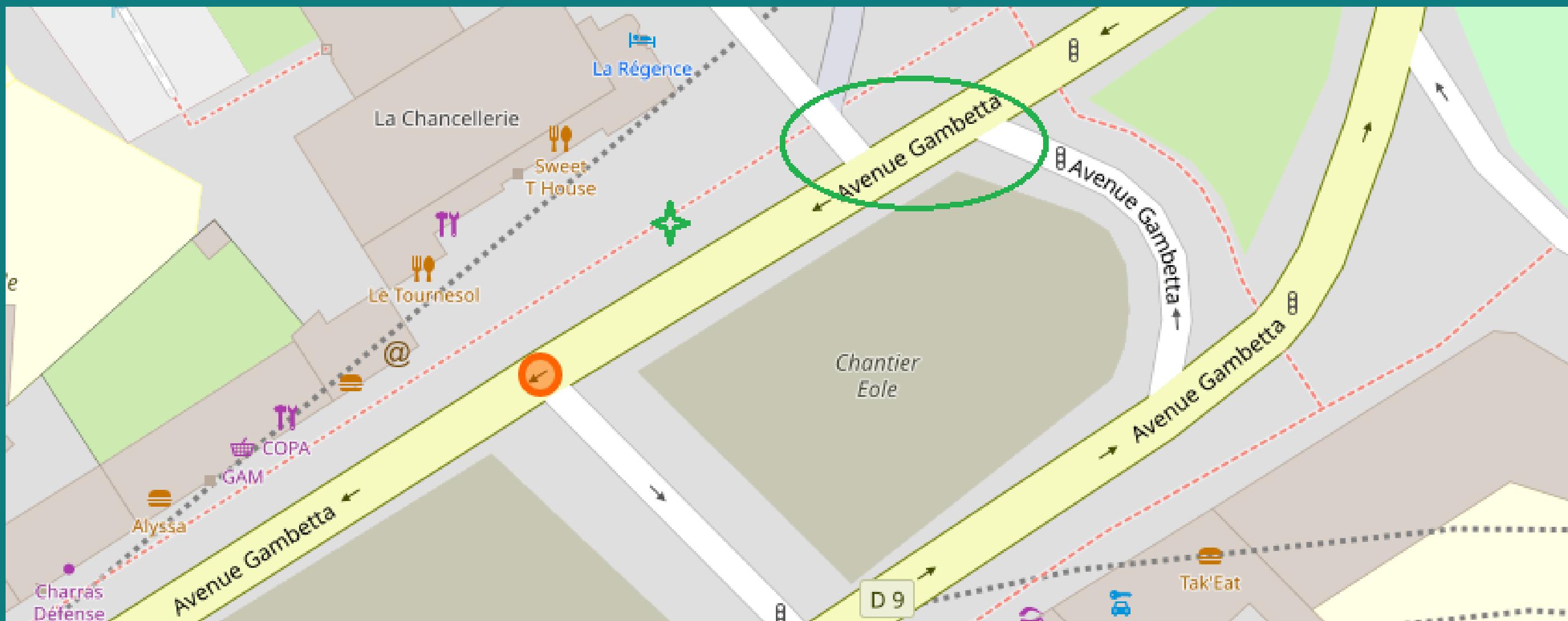
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# DESCRIPTION DU CODE



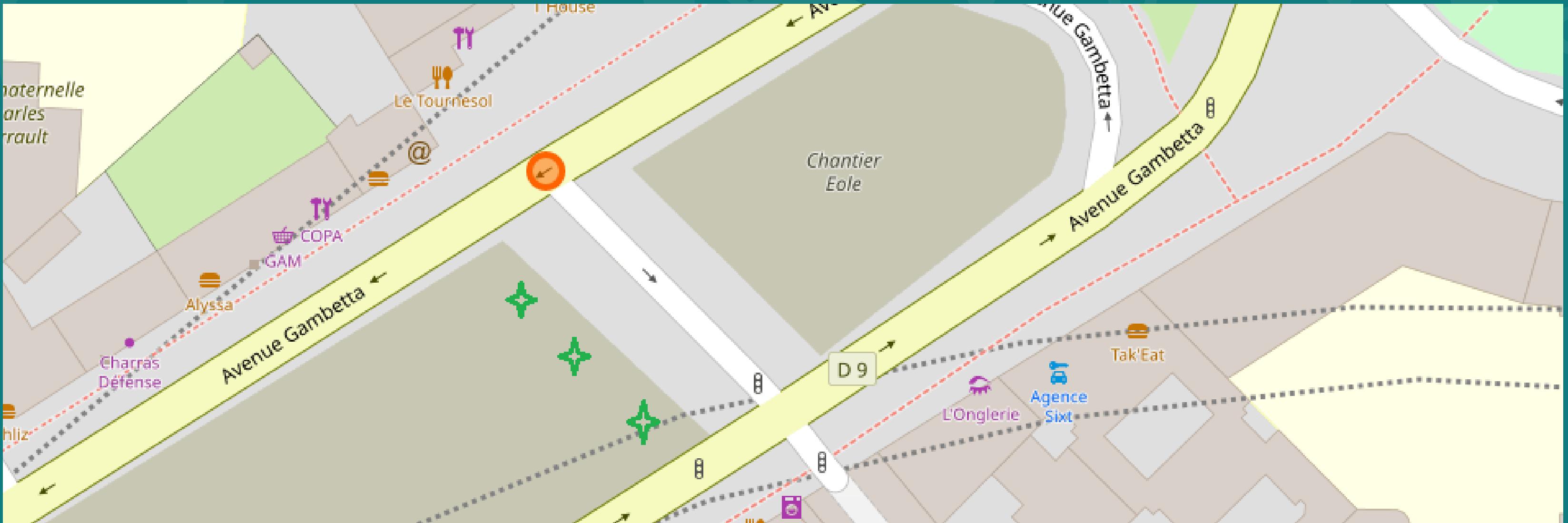
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# DESCRIPTION DU CODE

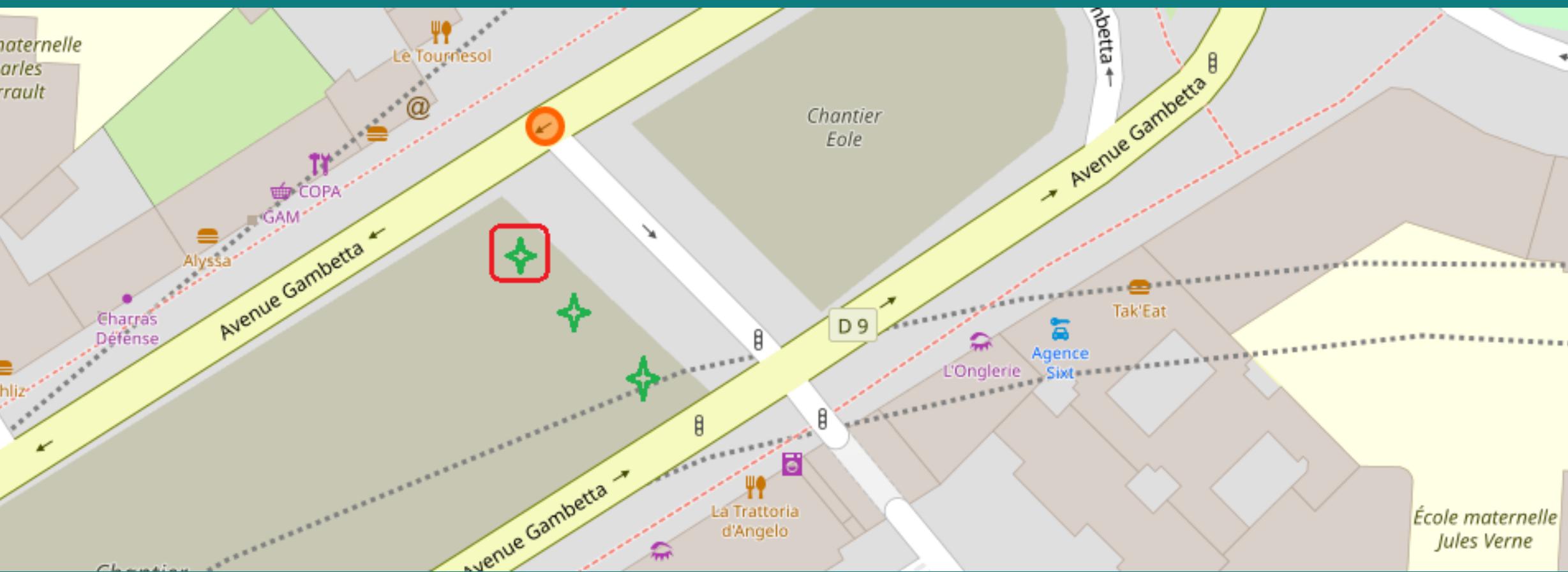


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# Objectif 2

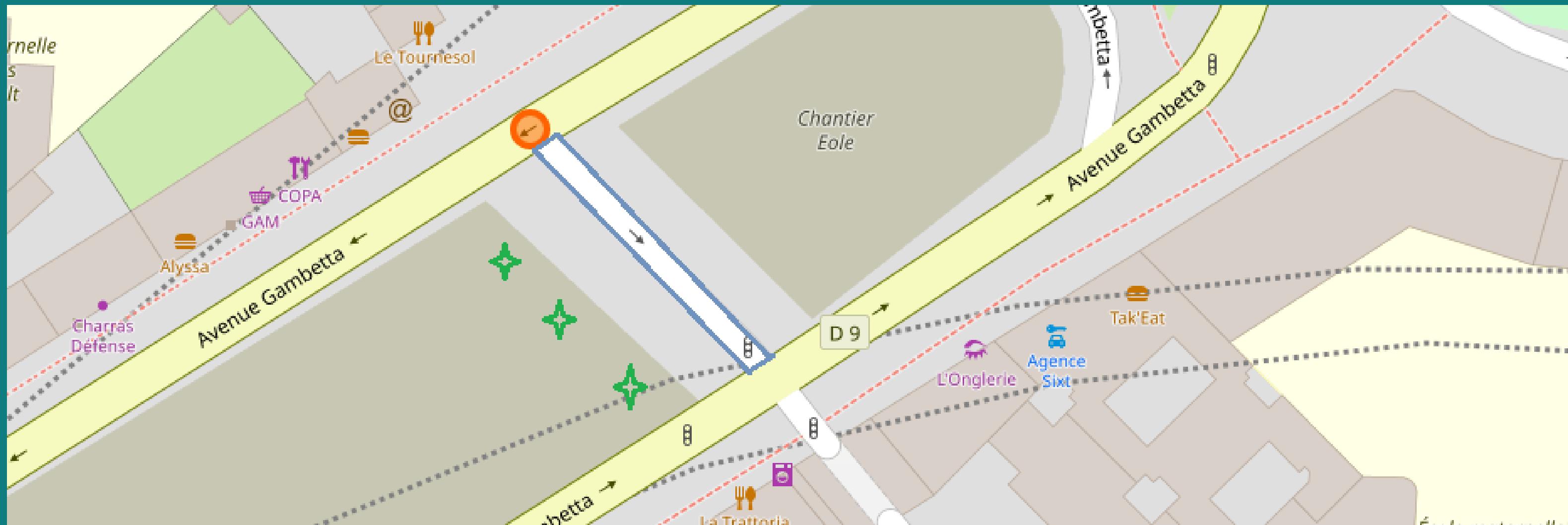


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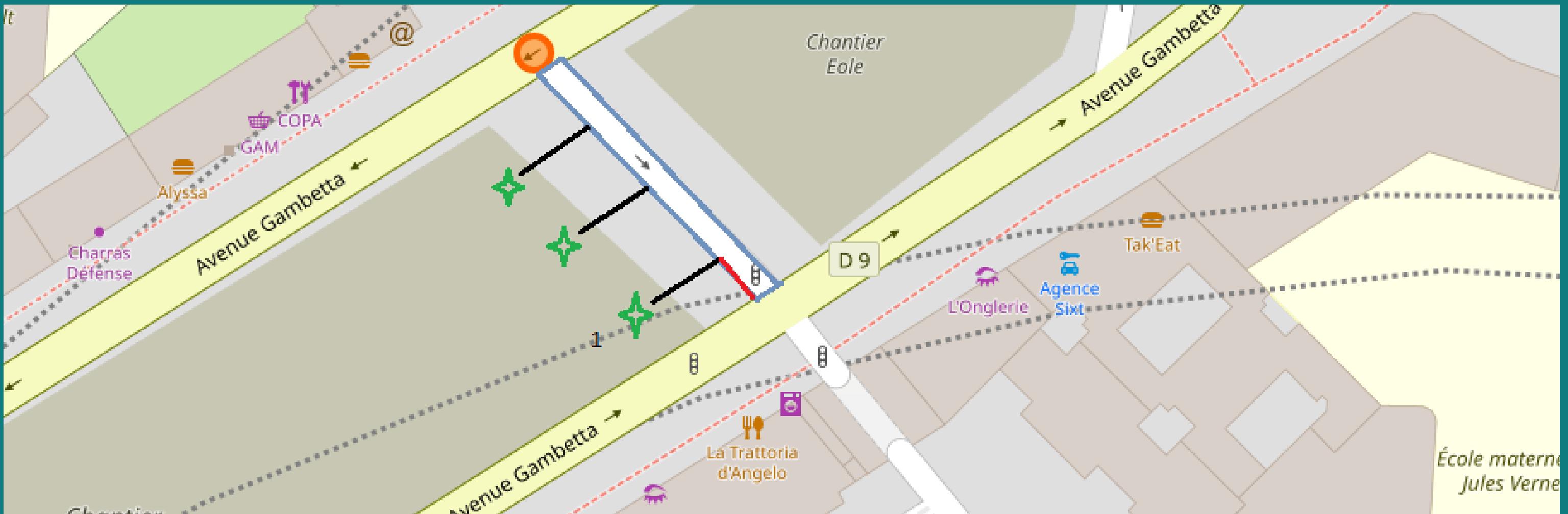
Tree Advisor the guide for botanists...

# DESCRIPTION DU CODE



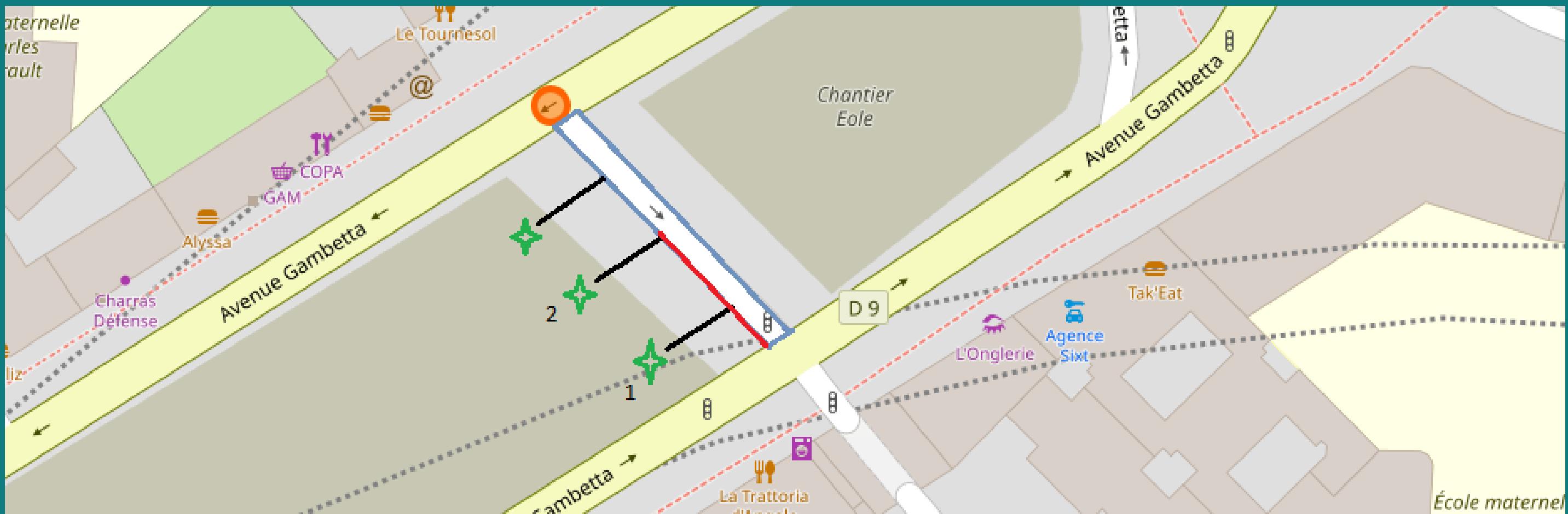
Tree Advisor the guide for botanists...

# DESCRIPTION DU CODE



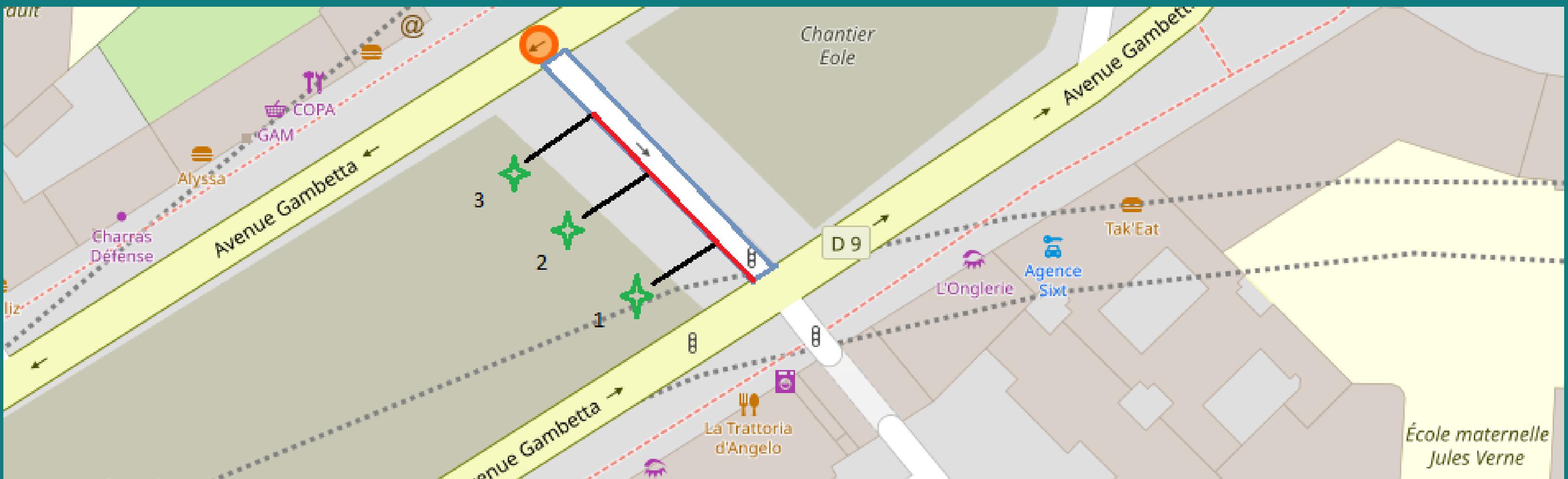
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# DESCRIPTION DU CODE



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# DESCRIPTION DU CODE



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# OBJECTIF 3



# DESCRIPTION DU CODE



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# DESCRIPTION DU CODE



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# DESCRIPTION DU CODE



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# DESCRIPTION DU CODE



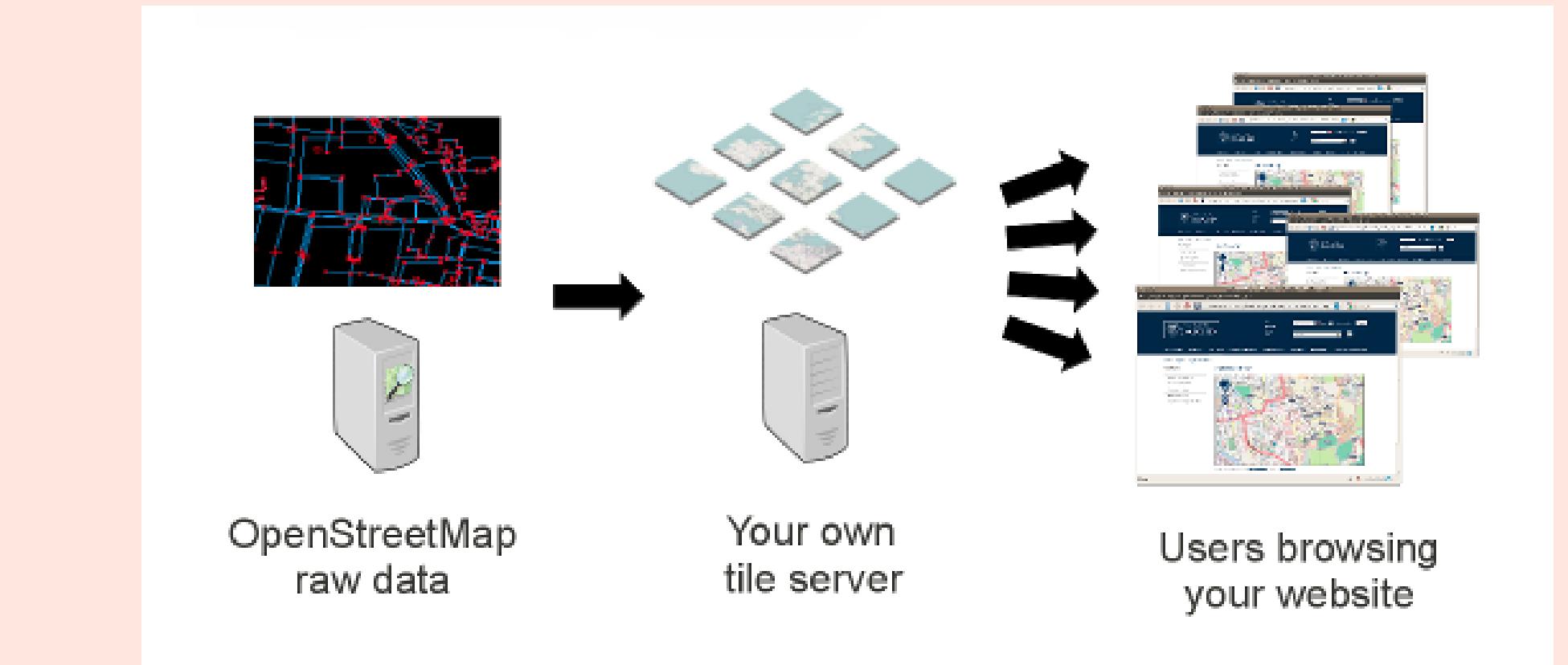
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# Installation de l'API

## UTILISATION D'UNE MACHINE VIRTUELLE

### Problèmes avec Overpass API

- too many requests
- serverload too high

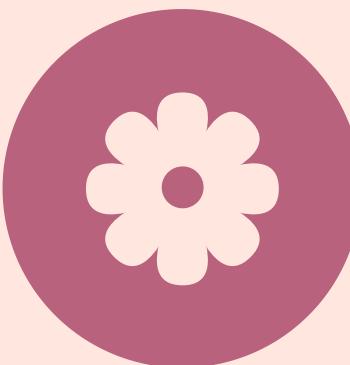
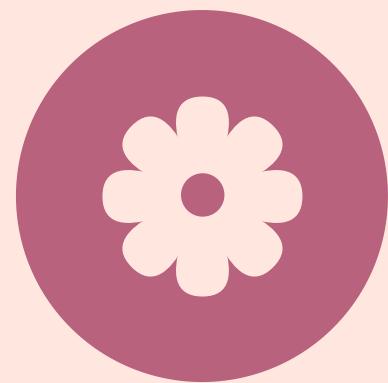
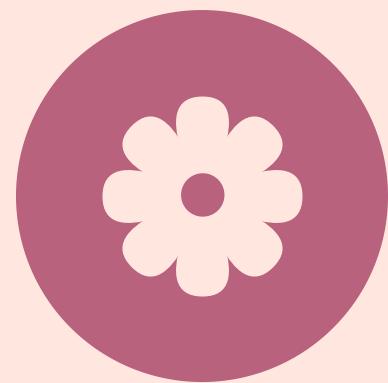


### Difficultés rencontrées :

- récupérer le fichier .osm.bz2 de l'Île de France (process Killed)
- utiliser une machine virtuelle plus grande
- notre API

<http://138.195.139.20/api/interpreter>

# AVANTAGES



**100%**

DE SUCCES SUR  
NOTRE JEU DE TEST

**2X**

PLUS RAPIDE EN  
UTILISANT UNE  
MACHINE VIRTUELLE

**Aucune**

ERREUR DE FLUX ET  
DE CONGESTION



# Conclusion

## MANIABILITÉ ET INTEGRITÉ

Notre projet prend soin des arbres  
comme de nos utilisateurs.

Facilité d'exploitation et de modification.

La qualité de la réponse est privilégiée  
sur la rapidité.

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# Des questions?

## YOU HAVE THE FLOOR

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