

# Diagnosis

Attribute	Description	Data type
coodX	Position of the tree, X coordinates in Lambert 93 CC45 system.	Float (1911906.64842 < x < 1916251.74252)
coordY	Position of the tree, Y coordinate in Lambert 93 CC45 system.	Float (4220467.21877 < y < 4226533.85288)
stationId	The identifier of the station of the tree.	1157 possible String values ('ESP065'/'ESP151'/'ESP174'/'ESP187')
sector	The sector of Grenoble the tree is located in.	Integer (1-6)
closestTrainStation	The minimal of the maximal temperatures of Grenoble.	Float
closestIndustrialZone	Distance between the diagnosed tree and an industrial zone.	Float
closestParking	Distance between the diagnosed tree and a parking.	Float
closestRiver	Distance between the diagnosed tree and a train river.	Float
closestMotorways	Distance between the diagnosed tree and a motorway.	Float
closestMall	Distance between the diagnosed tree and a mall.	Float
closestRoads	Distance between the diagnosed tree and a road.	Float
environmentTypeCode	The identifier of the category that describes where the tree is planted.	Four possible string values : 'Arbre de voirie'/'Bois semi naturel'/'Arbre d'espaces ouverts'/'Arbre d'enceintes fermées'
environmentTypeDesc	Category that describes where the tree is planted.	String ('ESP065'/'ESP151'/'ESP174'/'ESP187')
distanceToPollutionStation	Distance between the diagnosed tree and a pollution station.	Float
idPollutionStation	The identifier of the pollution station which takes measures of the air.	Integer
species	The species of the tree.	String ('Cordata', 'Japonica' ...)
genus	The botanical type of the tree	String ('Alnus', 'Platanus' ...)
seedingYear	The year the tree was planted on.	Year (2004-2015)
fiveYearPeriod		
isLast	Whether this diagnosis is the last that was done for the diagnosed tree.	Boolean (true/false)
diagnosisYear	The year of this diagnosis.	Year (2011-2015)
fiveYearPeriod		
diagnosisNote	The result of this diagnosis.	String ('Arbre d'avenir normal', 'Arbre d'avenir incertain', 'Arbre à abatre dans les 5 ans' ..)
developmentStatus	Developement status of the tree when it was diagnosed.	String ('Arbre jeune', 'adulte', 'vieillissant')
sidewalkProximity	Defines whether the tree is near a sidewalk.	Boolean (true/false)
environmentBusyness	Describes how busy the nearby environment of the tree is.	String ('passages fréquents et arrêts fréquents'/'passages fréquents ou arrêts'/'quelques passages')
vigor	How good looking the tree is.	String ('vigoureux'/'vieillissement dépérissement'/'vigueur intermédiaire')
idStumpDiameter	The intervall of the diameter of the tree's stump.	String ('10 à 20 cm' ...)
stumpDiameterGroup		
diseases	Four caracters that describe all possible combinations of sickness.	R : root, T : trunk, C : collar, K : crown, x : not sick on this part 16 possible values : xxxx, xxxK, xxCx, xTxx, Rxxx, xxCK, xTxK, xTCx, xTCK, RxxK, RxCx, RxCK, RTxx, RtxK, RTCx, RTCK
quantity	Attribute used for counting the number of diagnosis.	Number equal to 1
diseases	Attribute used for counting the number of sick trees.	Number equal to 1 when the tree has an imperfection on one of its parts else equal to 0
diseaseOnRoot	Whether the tree has an imperfection on its roots.	Number equal to 1 when the tree has an imperfection on its roots else equal to 0
diseaseOnTrunk	Whether the tree has an imperfection on its trunk.	Number equal to 1 when the tree has an imperfection on its trunk else equal to 0
diseaseOnCollar	Whether the tree has an imperfection on its collar.	Number equal to 1 when the tree has an imperfection on its collar else equal to 0
diseaseOnCrown	Whether the tree has an imperfection on its crown.	Number equal to 1 when the tree has an imperfection on its crown else equal to 0

# Pollution

Attribute	Description	Data type
idPollutionStation	The identifier of the pollution station which takes measures of the air.	Integer
pollutionStationName	The name of the pollution station.	String ('Grenoble Rocade Sud', ...)
monthYear	The month and year when the measures has been taken.	String ('janv-04')
year	The year when the measures has been taken.	Year (2004-2015)
nitrogenDioxide	The minimal of the maximal temperatures of Grenoble.	Float
nitrogenOxide	The quantity of nitrogen oxide in the air in micrograms by cube meter.	Float
ozone	The quantity of ozone in the air in micrograms by cube meter.	Float
pm10	The quantity of the particules PM10 in the air in micrograms by cube meter.	Float
benzene	The quantity of benzene in the air in micrograms by cube meter.	Float
benz(a)anthracene	The quantity of benz(a)anthracene in the air in micrograms by cube meter.	Float
benz(a)pyrene	The quantity of benz(a)pyrene in the air in micrograms by cube meter.	Float
benz(b)fluoranthene	The quantity of benz(b)fluoranthene in the air in micrograms by cube meter.	Float
benz(j)fluoranthene	The quantity of benz(j)fluoranthene in the air in micrograms by cube meter.	Float
benz(k)fluoranthene	The quantity of benz(k)fluoranthene in the air in micrograms by cube meter.	Float
dibenzo(a,h)anthracene	The quantity of dibenzo(a,h)anthracene in the air in micrograms by cube meter.	Float
indeno(1,2,3-cd)pyrene	The quantity of indeno(1,2,3-cd)pyrene in the air in micrograms by cube meter.	Float
pm2,5	The quantity of the particules PM2,5 in the air in micrograms by cube meter.	Float
toluene	The quantity of toluene in the air in micrograms by cube meter.	Float
antimony	The quantity of antimony in the air in micrograms by cube meter.	Float
arsenic	The quantity of arsenic in the air in micrograms by cube meter.	Float
barium	The quantity of barium in the air in micrograms by cube meter.	Float
cadmium	The quantity of cadmium in the air in micrograms by cube meter.	Float
chrome	The quantity of chrome in the air in micrograms by cube meter.	Float
cobalt	The quantity of cobalt in the air in micrograms by cube meter.	Float
copper	The quantity of copper in the air in micrograms by cube meter.	Float
sulfurDioxide	The quantity of sulfur dioxide dioxide in the air in micrograms by cube meter.	Float
ethylbenzene	The quantity of ethylbenzene in the air in micrograms by cube meter.	Float
m+p-xylene	The quantity of m+p-xylene in the air in micrograms by cube meter.	Float
manganese	The quantity of manganese in the air in micrograms by cube meter.	Float
mercury	The quantity of mercury in the air in micrograms by cube meter.	Float
nickel	The quantity of nickel in the air in micrograms by cube meter.	Float
o-xylene	The quantity of o-xylene in the air in micrograms by cube meter.	Float
lead	The quantity of lead in the air in micrograms by cube meter.	Float
thallium	The quantity of thallium in the air in micrograms by cube meter.	Float
vanadium	The quantity of vanadium in the air in micrograms by cube meter.	Float
zinc	The quantity of zinc in the air in micrograms by cube meter.	Float

# Weather

Attribute	Description	Data type
monthYear	The month and year when the measures has been taken.	String ('janv-04')
year	The year when the measures has been taken.	Year (2004-2015)
maximalMaxTemp	The maximal of the maximal temperatures of Grenoble.	
averageMaxTemp	The average of the maximal temperatures of Grenoble.	
minimalMaxTemp	The minimal of the maximal temperatures of Grenoble.	
averageTemp	The average of the temperatures.	
maximalMinTemp	The maximal of the minimal temperatures of Grenoble.	
averageMinTemp	The average of the minimal temperatures of Grenoble.	
minimalMinTemp	The minimal of the minimal temperatures of Grenoble.	
heatingDegreeDay		
sunDurationTime		
totalPrecipitation		
averagePrecipitation		
snow		
maximumWindGust		
maxPressure		
minPressure		