Collecte de Données et Data Visualization

Compréhension des objectifs, présentation de la démarche

Plan

- Contexte & Définitions
- Objectifs
- Démarche & livrables
- Planning
- Organisation

Contexte & Définitions

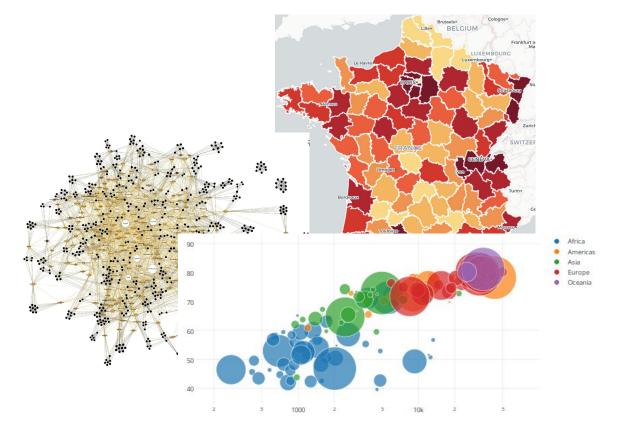
Data Visualization : représentation visuelle des données pour une meilleure compréhension





Listes / Chronologie

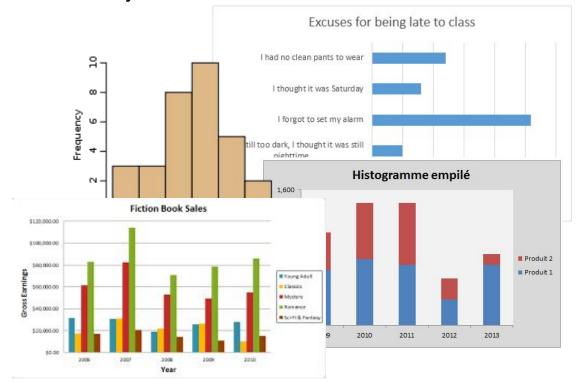
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Contexte & Définitions

Limites:

- Multitudes de graphiques disponibles et imaginables en fonction du jeu de données
- Nommage de ces graphiques non arrêté :
 - un graphe renvoie à plusieurs mot-clés (histogram / bar chart)
 - un mot-clé renvoie à plusieurs graphiques (bar chart)



Comment peut-on labéliser / normer les visuels de data-visualization ?

Objectifs

Collecter un jeu de données de data vizualisation et proposer une méthode de classification automatique

Créer un jeu de données

Classifier les visuels

Automatiser la classification (ML)

Etendre l'étude à de plus grands jeux de données

Démarche & Livrable

1

Créer un jeu de données

Collecter un jeu de données

Obtenir un jeu de données propre

Script de scraping Google Image

Connection API Bing

Sélection d'image

Redimensionnement, cropper

2

Classer les visuels

Sélectionner des visuels

Annoter les visuels



Recherche des visuels les plus récurrents

Sélection de visuels analysables (pour ML)

Définition de labels précis

Nommer les classes

3

Méthode de classification automatique (Machine Learning)

Rechercher les algorithmes existants (Google, etc.)

Choix de l'algorithme et des méthodes les plus pertinents (KMeans,..)

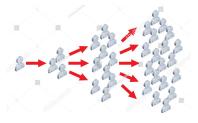
Définition des seuils de validation



Classification binaire & classification multi-catégories

Démarche & Livrable

Étendre à de plus grands jeux de données, rendre public les résultats





Livrables:

- Une base de données da data visualizations
- Un programme de classification des data visualizations
- Une documentation explicative du projet détaillant:
 - La démarche du projet
 - Le fonctionnement du programme

Important et limites possibles:

identifier l'aspect légal du traitement des images, notamment par rapport aux droits des images

Planning

le 18 janvier

Décembre 2017 Jusqu'au 18 janvier Jusqu'au 30 janvier Jusqu'au 15 février Jusqu'au 15 mars Jusqu'au 29 mars Classification des Constitution de Phase de cadrage : Constitution de la Application des Préparation de la l'équipe et prise définition des rôles. visuels sur la base méthodes de base de données de documentation. des livrables, des machine learning de contact avec d'une méthodologie data vizualisation et préparation de la le tuteur méthodes de travail de sélection et de afin d'obtenir notre premiers traitements présentation finale, Identification des programme de en vue de l'obtention normage rattrapage d'un Second reporting le classification de data problématiques du jeu de données éventuel retard et 15 février non-techniques vizualisation adapté propres correction des pouvant impacter le Objectif: premier au grand jeu de possibles défauts projet(légales par livrable pour le 30 données Troisième reporting Objectif: second exemple) janvier le 29 mars Premier reporting livrable pour le 15

mars

Organisation







Des questions?