

Dernière mise à jour	Informatique	Denis DEFAUCHY
03/06/2022	Bases de la programmation	13 – Dictionnaires

Informatique

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Résumé

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Définition	Un dictionnaire est alors un ensemble de couples clé : valeur	
Création Ajout	<pre>dico = {} tel = { 'Valentin': '0658951423', 'Cathy': '0751210783', 'Theo': '0169842154' } tel['Romain'] = '0836656565' Eleve = {} Eleve['nom'] = 'Pierre' Eleve['classe'] = 'MPSI' Eleve['notes info'] = [17,12,10] Eleve['age'] = 19</pre>	
Clé de type tuple ou réels	<pre>>>> Dico = {(1,1):1,(1,2):2,(2,1):3,(2,2):4} >>> Dico = {1.2:1,"a":2,(1,1):3} >>> Dico[(1,2)] >>> Dico 2 {1.2: 1, 'a': 2, (1, 1): 3}</pre>	
Nombre d'éléments	len(dico)	
Résupération de valeurs	dico['age']	
Parcours	<pre>for cle in dico: print(cle)</pre>	<pre>for cle in dico: print(dico[cle])</pre>
	<pre>for cle in dico.keys(): print(cle)</pre>	<pre>for val in dico.values(): print(val)</pre>
	<pre>for cle, val in dico.items(): print(cle,val)</pre>	
Existence d'une clé	cle in dico	
Suppression d'un couple	del dico[cle]	
Applications	Comptage	
	<pre>L = [1,2,1,3,5,7,9,1,4,5,3,6,5, 2,8,7,3,6,4,9,2,1,5,3,5,8,4 ,4,5,3,0,1,8,0] dico = {} for i in range(10): dico[i] = 0 for elem in L: dico[elem] += 1 print(dico) {0: 2, 1: 5, 2: 3, 3: 5, 4: 4, 5: 6, 6: 2, 7: 2, 8: 3, 9: 2}</pre>	<pre>L = [1,2,1,3,5,7,9,1,4,5,3,6,5, 2,8,7,3,6,4,9,2,1,5,3,5,8,4 ,4,5,3,0,1,8,0] dico = {} for elem in L: if elem in dico: dico[elem] += 1 else: dico[elem] = 1 print(dico) {1: 5, 2: 3, 3: 5, 5: 6, 7: 2, 9: 2, 4: 4, 6: 2, 8: 3, 0: 2}</pre>
	Chemin	
<pre>dico = { 'paris': 'lyon', 'bordeaux': 'saint etienne', 'lyon': 'marseille', 'brest': 'rouen', 'bastia': 'lille', 'nice': 'brest', 'vienne': 'valence', 'paris': 'lyon', 'rouen': 'bordeaux', 'montpellier': 'bastia', 'valence': 'montpellier', 'lyon': 'marseille', 'saint etienne': 'vienne', 'marseille': 'nice', 'lille': 'strasbourg' } Depart = 'paris' Arrivee = 'strasbourg' Intermediaire = Depart while Intermediaire != Arrivee: Intermediaire = dico[Intermediaire] print(Intermediaire)</pre> <div>lyon marseille nice brest rouen bordeaux saint etienne vienne valence montpellier bastia lille strasbourg</div>		