

Formal meeting

Wednesday, March 3, 2016 1:30pm | GPQ's office in SEB

Minute Taker	Bryan Kok (BK)			
Attendees	Dr Guoping Qiu (GPQ), Dylan Wang (DW), Gloria Liu (GL), Bob Peng (BP), Suleiman Ramjaun (SR), Bryan Kok (BK)			
	Type	Note	Owner	Due
1. Progress since last semester	INFO	BK describes reasons as to why K-Means is unsuitable: a tree structure is conceptually easy but actually quite difficult.		
1.1	INFO	BK begins describing the BoW approach to GPQ - take keypoints (also known as interest points), concatenate each subdescriptor into a large array for clustering, then vector quantizing to represent each image in terms of the most common features.		
1.2	INFO	BK shows a demo of the Python code to GPQ.		
1.3	TODO	BK mentions deficiencies in the color algorithm with sketch-based images; the whitespace is skewing the histograms too much.		
2. Suggestions	IDEA	GPQ notices some images which look structurally similar but are contextually very different.		
2.1	TODO	A 2-step searching process is one way to compensate for the initial accuracy; for sketched images, do only color comparison first and allow the user to run the query again against one of the returned results, this time incorporating BoW.		
2.2	TODO	Set a threshold for transparency or whiteness and do not take certain pixels into account.		
2.3	INFO	API has already been implemented on the server by DW.		
2.4	IDEA	GPQ proposed including new images into the cluster centers? database? as part of a "software update" as users would be expected to wait anyways.		
3. Integration	TODO	GPQ: "All the components are in place, so now it's a case of integrating them."		