

COLLAGE

how can we return good media results for kids' queries?

Search

Preselect media types

Choose ones kids will like, such as *mazes*, *maps*, *puzzles*, *flags*, *music sheets*, *diagrams*, *paintings*, *coloring pages*, *crosswords*, *tracings*, etc.

Generate media queries for children's queries

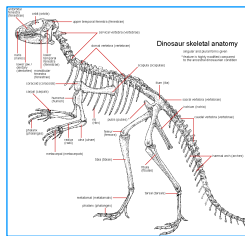
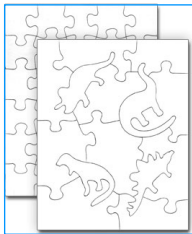
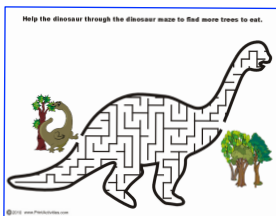
For example, if the child issues the query, "*dinosaurs*", create a set of **media queries** for each media type, e.g., "*dinosaurs mazes*", "*dinosaurs maps*", "*dinosaurs puzzles*", "*dinosaur diagrams*", etc.

Check the sanity of these queries and filter

For each **media query**, check if it is "*sane*" by querying if it's in the *Google Suggest* database. If it isn't, remove it from the set. (Frequent queries are hosted by Google Suggest, indicating that the **media query**, as combination of **query terms** and **media type**, makes sense. e.g., "*pirate flag*" and "*math puzzles*" are in the DB, but "*math flag*" and "*biology music sheets*" are not.)

Run image search using the sane media queries

For each **media query** in the *sane* set, run a Google **image search**. Some filters, such as "*black-and-white*" or "*line art*" can help for some media types. Return these as results in addition to existing search results, e.g.:



Read the abstract for more details

"A Picture is Worth a Thousand Search Results: Finding Child-Oriented Multimedia Results with collAge" by Karl Gyllstrom and Sien Moens.