

Critical Concept

1.Apple 2.Granny Smith

3.Fuii

5.Lobo

Critical Concept

Identification

4. Clementine

Knowledge

Retrieval

Instances of six cognitive levels in Bloom's Taxonomy

Remember-level

O1: Which count did Fuii apples originate?

B.Japan A.China C. India D. Canada

O2: Which is the best-taste

apple in the document? Ouestion is un-answerable

O3: Choose the apple combination to develop a new kind of dessert.

Cognitive level is not matched

Understand-level

O1: Which kind of apple is green with slightly tart?

A. Granny Smith B. Fuji 💙 C. Lobo D. Gala

O2: Who is the CEO of Apple?

Question is irrelevant

Q3: Why are Granny Smith preferred for baking? A. Sweet B. Thick

C. Small D. Green Wrong answer

Apply-level

Analyze-level

Evaluate-level

Create-level

Select and

Optimize with

RAG

...

Multi-level Instance Generation based on Bloom's Taxonomy

Knowledge Graph

Orange

Citrus

−Subclass —

Clementine

Knowledge Selection

Helpful Triples

Here are the knowledge helpful for understanding the seed instance:

1. <Clementine, Subclass of, Citrus>



Generation

Ouestion about the critical concept "Clementine": What is Clementine a subclass of ?

Evaluate Instances

B. Banana A. Apple

C. Citrus D. Berry

Seed Instance

Which one is not a variety of apples?

B. Fuii

D. Lobo

- A. Granny Smith
- C. Clementine