Summarizing

In this lesson, you will summarize text with a focus on specific topics.

Setup

Text to summarize

```
In [10]: prod_review = """
Got this panda plush toy for my daughter's birthday, \
    who loves it and takes it everywhere. It's soft and \
    super cute, and its face has a friendly look. It's \
    a bit small for what I paid though. I think there \
    might be other options that are bigger for the \
    same price. It arrived a day earlier than expected, \
    so I got to play with it myself before I gave it \
    to her.
    """
```

Summarize with a word/sentence/character limit

```
In [11]: prompt = f"""
Your task is to generate a short summary of a product \
    review from an ecommerce site.

Summarize the review below, delimited by triple backticks. in at most 30 words.
```

```
Review: ```{prod_review}```
response = get_completion(prompt)
print(response)
```

Cute panda plush toy loved by daughter, soft and friendly-looking. S maller than expected for the price, but arrived early.

Summarize with a focus on shipping and delivery

```
In [12]: prompt = f"""
Your task is to generate a short summary of a product \
    review from an ecommerce site to give feedback to the \
    Shipping deparmtment.

Summarize the review below, delimited by triple
    backticks, in at most 30 words, and focusing on any aspects \
    that mention shipping and delivery of the product.

Review: ```{prod_review}```
"""
response = get_completion(prompt)
print(response)
```

The customer received the panda plush toy a day earlier than expecte d, allowing them to enjoy it before giving it to their daughter.

Summarize with a focus on price and value

```
In [13]: prompt = f"""
Your task is to generate a short summary of a product \
    review from an ecommerce site to give feedback to the \
    pricing deparmtment, responsible for determining the \
    price of the product.

Summarize the review below, delimited by triple
    backticks, in at most 30 words, and focusing on any aspects \
    that are relevant to the price and perceived value.

Review: ```{prod_review}```
"""
response = get_completion(prompt)
```

```
print(response)
```

The panda plush toy is loved for its softness and cuteness, but some customers feel it's a bit small for the price.

Comment

• Summaries include topics that are not related to the topic of focus.

Try "extract" instead of "summarize"

```
In [14]: prompt = f"""
Your task is to extract relevant information from \
a product review from an ecommerce site to give \
feedback to the Shipping department.

From the review below, delimited by triple quotes \
extract the information relevant to shipping and \
delivery. Limit to 30 words.

Review: ```{prod_review}```
"""

response = get_completion(prompt)
print(response)
```

Feedback: The product arrived a day earlier than expected, which was a pleasant surprise. Consider offering larger options for the same p rice to improve customer satisfaction.

Summarize multiple product reviews

```
In [18]:
    review_1 = prod_review

# review for a standing lamp
    review_2 = """
    Needed a nice lamp for my bedroom, and this one \
        had additional storage and not too high of a price \
        point. Got it fast - arrived in 2 days. The string \
        to the lamp broke during the transit and the company \
        happily sent over a new one. Came within a few days \
        as well. It was easy to put together. Then I had a \
        missing part, so I contacted their support and they \
        very quickly got me the missing piece! Seems to me \
        to be a great company that cares about their customers \
        and products.
```

review for an electric toothbrush review_3 = """

My dental hygienist recommended an electric toothbrush, \ which is why I got this. The battery life seems to be \ pretty impressive so far. After initial charging and \ leaving the charger plugged in for the first week to \ condition the battery, I've unplugged the charger and \ been using it for twice daily brushing for the last \ 3 weeks all on the same charge. But the toothbrush head \ is too small. I've seen baby toothbrushes bigger than \ this one. I wish the head was bigger with different \ length bristles to get between teeth better because \ this one doesn't. Overall if you can get this one \ around the \$50 mark, it's a good deal. The manufactuer's \ replacements heads are pretty expensive, but you can \ get generic ones that're more reasonably priced. This \ toothbrush makes me feel like I've been to the dentist \ every day. My teeth feel sparkly clean!

review for a blender

review 4 = """

So, they still had the 17 piece system on seasonal \ sale for around \$49 in the month of November, about \ half off, but for some reason (call it price gouging) \ around the second week of December the prices all went \ up to about anywhere from between \$70-\$89 for the same \ system. And the 11 piece system went up around \$10 or \ so in price also from the earlier sale price of \$29. \ So it looks okay, but if you look at the base, the part \ where the blade locks into place doesn't look as good \ as in previous editions from a few years ago, but $I \setminus$ plan to be very gentle with it (example, I crush \ very hard items like beans, ice, rice, etc. in the \ blender first then pulverize them in the serving size \ I want in the blender then switch to the whipping \ blade for a finer flour, and use the cross cutting blade \ first when making smoothies, then use the flat blade \ if I need them finer/less pulpy). Special tip when making \ smoothies, finely cut and freeze the fruits and \ vegetables (if using spinach-lightly stew soften the \ spinach then freeze until ready for use—and if making \ sorbet, use a small to medium sized food processor) \ that you plan to use that way you can avoid adding so \ much ice if at all-when making your smoothie. \ After about a year, the motor was making a funny noise. \ I called customer service but the warranty expired \ already, so I had to buy another one. FYI: The overall \ quality has gone done in these types of products, so \ they are kind of counting on brand recognition and \ consumer loyalty to maintain sales. Got it in about \ two days.

```
reviews = [review_1, review_2, review_3, review_4]
```

```
In [19]: for i in range(len(reviews)):
    prompt = f"""
    Your task is to generate a short summary of a product \
    review from an ecommerce site.

Summarize the review below, delimited by triple \
    backticks in at most 20 words.

Review: ```{reviews[i]}```
    response = get_completion(prompt)
    print(i, response, "\n")
```

- O Soft, cute panda plush toy loved by daughter, but small for price. Arrived early, friendly face.
- 1 Great lamp with storage, fast delivery, excellent customer service for missing parts. Easy assembly, good company.
- 2 Impressive battery life, small brush head, good deal for \$50, gene ric replacement heads available, leaves teeth feeling clean.
- 3 17-piece system on sale for \$49, prices increased later. Base qual ity not as good. Motor issues after a year.