# **Summarizing**

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

## **Setup**

### Text to summarize

```
In [3]:
```

```
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 [4]:

```
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)
```

Soft and cute panda plush toy loved by daughter, but a bit small for the price. Arrived early.

## Summarize with a focus on shipping and delivery

### In [5]:

```
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 panda plush toy arrived a day earlier than expected, but the cust omer felt it was a bit small for the price paid.

## Summarize with a focus on price and value

### In [6]:

```
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 soft, cute, and loved by the recipient, but the price may be too high for its size.

#### Comment

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

## Try "extract" instead of "summarize"

```
In [7]:
```

```
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)
```

The product arrived a day earlier than expected.

Summarize multiple product reviews

#### 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.

#### 0,0,0

## # 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 [9]:

```
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 and cute panda plush toy loved by daughter, but a bit small for the price. Arrived early.
- 1 Affordable lamp with storage, fast shipping, and excellent customer service. Easy to assemble and missing parts were quickly replaced.
- 2 Good battery life, small toothbrush head, but effective cleaning. G ood deal if bought around \$50.
- 3 Mixed review of a blender system with price gouging and decreased q uality, but helpful tips for use.

## Try experimenting on your own!

```
In [ ]:
```