Iterative Prompt Development

In this lesson, you'll iteratively analyze and refine your prompts to generate marketing copy from a product fac sheet.

Setup

Note: In June 2023, OpenAl updated gpt-3.5-turbo. The results you see in the notebook may be slightly different than those in the video. Some of the prompts have also been slightly modified to product the desired results.

Generate a marketing product description from a product fact sheet

ш.

```
In [3]: act_sheet_chair = """
       VERVIEW
        Part of a beautiful family of mid-century inspired office furniture,
       ncluding filing cabinets, desks, bookcases, meeting tables, and more.
        Several options of shell color and base finishes.
        Available with plastic back and front upholstery (SWC-100)
       r full upholstery (SWC-110) in 10 fabric and 6 leather options.
        Base finish options are: stainless steel, matte black,
       loss white, or chrome.
        Chair is available with or without armrests.
        Suitable for home or business settings.
        Qualified for contract use.
       ONSTRUCTION
        5-wheel plastic coated aluminum base.
        Pneumatic chair adjust for easy raise/lower action.
       IMENSIONS
        WIDTH 53 CM | 20.87"
        DEPTH 51 CM | 20.08"
        HEIGHT 80 CM | 31.50"
        SEAT HEIGHT 44 CM | 17.32"
        SEAT DEPTH 41 CM | 16.14"
       PTIONS
        Soft or hard-floor caster options.
        Two choices of seat foam densities:
       medium (1.8 lb/ft3) or high (2.8 lb/ft3)
        Armless or 8 position PU armrests
       ATERIALS
       HELL BASE GLIDER
        Cast Aluminum with modified nylon PA6/PA66 coating.
        Shell thickness: 10 mm.
       EAT
        HD36 foam
       DUNTRY OF ORIGIN
        Italy
```

```
In [4]: prompt = f"""
Your task is to help a marketing team create a
    description for a retail website of a product based
    on a technical fact sheet.

Write a product description based on the information
    provided in the technical specifications delimited by
    triple backticks.

Technical specifications: ```{fact_sheet_chair}```
    """
    response = get_completion(prompt)
    print(response)
```

Introducing our stylish and versatile mid-century inspired office chair, perfect for both home and business settings. This chair is part of a beautiful family of office furniture that includes filing cabinets, desks, bookcases, meeting tables, and more.

Customize your chair with several options of shell color and base fini shes to suit your personal style. Choose between plastic back and fron t upholstery or full upholstery in a variety of fabric and leather opt ions. The chair is also available with or without armrests.

Constructed with a durable 5-wheel plastic coated aluminum base and fe aturing a pneumatic chair adjust for easy raise/lower action, this chair is both functional and comfortable. The dimensions of the chair are as follows: WIDTH 53 CM | 20.87", DEPTH 51 CM | 20.08", HEIGHT 80 CM | 31.50", SEAT HEIGHT 44 CM | 17.32", SEAT DEPTH 41 CM | 16.14".

Choose between soft or hard-floor caster options and two choices of se at foam densities: medium or high. The chair is also available with ar mless or 8 position PU armrests.

Made with high-quality materials, including a cast aluminum shell with modified nylon coating and HD36 foam seat, this chair is built to las t. Plus, it is qualified for contract use and proudly made in Italy.

Elevate your workspace with our stylish and functional mid-century ins pired office chair.

Issue 1: The text is too long

Limit the number of words/sentences/characters.

```
In [5]: prompt = f"""
Your task is to help a marketing team create a
    description for a retail website of a product based
    on a technical fact sheet.

Write a product description based on the information
    provided in the technical specifications delimited by
    triple backticks.

Use at most 50 words.

Technical specifications: ```{fact_sheet_chair}```
    """
response = get_completion(prompt)
    print(response)
```

Introducing our versatile and stylish office chair from Italy. With cu stomizable options in color, upholstery, and base finish, this mid-cen tury inspired chair is perfect for both home and business settings. Fe aturing a durable construction and ergonomic design, it's the ideal choice for any workspace.

```
In [6]: len(response.split())
```

44

Issue 2. Text focuses on the wrong details

• Ask it to focus on the aspects that are relevant to the intended audience.

```
In [7]: prompt = f"""
```

Your task is to help a marketing team create a description for a retail website of a product based on a technical fact sheet.

Write a product description based on the information provided in the technical specifications delimited by triple backticks.

The description is intended for furniture retailers, so should be technical in nature and focus on the materials the product is constructed from.

Use at most 50 words.

Technical specifications: ```{fact_sheet_chair}```

response = get_completion(prompt)
print(response)

Introducing our versatile and stylish office chair, part of a mid-cent ury inspired furniture collection. Constructed with a durable cast alu minum shell and base glider coated with modified nylon PA6/PA66. The s eat features high-density HD36 foam for ultimate comfort. Made in Ital y, suitable for both home and business use.

In [10]: prompt = f"""

Your task is to help a marketing team create a description for a retail website of a product based on a technical fact sheet.

Write a product description based on the information provided in the technical specifications delimited by triple backticks.

The description is intended for furniture retailers. so should be technical in nature and focus on the materials the product is constructed from.

At the end of the description, include every 7-character Product ID in the technical specification.

Use at most 50 words.

Technical specifications: ```{fact_sheet_chair}```

response = get_completion(prompt) print(response)

Introducing our versatile and stylish office chair, part of a mid-cent ury inspired furniture collection. Choose from a variety of shell colo rs and base finishes to suit your space. Constructed with a durable al uminum base and high-density foam seat for comfort. Perfect for home o r business use.

Product IDs: SWC-100, SWC-110

Issue 3. Description needs a table of dimensions

Ask it to extract information and organize it in a table.

In [12]: prompt = f"""

Your task is to help a marketing team create a description for a retail website of a product based on a technical fact sheet.

Write a product description based on the information provided in the technical specifications delimited by triple backticks.

The description is intended for furniture retailers, so should be technical in nature and focus on the materials the product is constructed from.

At the end of the description, include every 7-character Product ID in the technical specification.

```
After the description, include a table that gives the product's dimensions. The table should have two columns. In the first column include the name of the dimension. In the second column include the measurements in inches only. Give the table the title 'Product Dimensions'.

Format everything as HTML that can be used in a website. Place the description in a <div> element.

Technical specifications: ```{fact_sheet_chair}```
"""

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

<div>

This mid-century inspired office chair is a perfect addition to any workspace, whether at home or in a business setting. The chair feature s a 5-wheel plastic coated aluminum base for stability and mobility. T he pneumatic chair adjustment allows for easy raise and lower action, ensuring comfort throughout the day.

You can customize this chair to your liking with options for shell color, base finish, and upholstery material. Choose between plastic back and front upholstery or full upholstery in a variety of fabric and leather options. The base finish options include stainless steel, matter black, gloss white, or chrome. You also have the choice of adding ar mrests or keeping the chair armless.

Constructed with high-quality materials, the shell base glider is m ade of cast aluminum with a modified nylon PA6/PA66 coating, providing durability and style. The seat is filled with HD36 foam for ultimate c omfort and support.

```
Product ID: SWC-100
</div>
<caption>Product Dimensions
 Dimension
  Measurements
Width
  20.87 inches
Depth
  20.08 inches
```

```
Height
31.50 inches

Seat Height
17.32 inches

Seat Depth

16.14 inches
```

Load Python libraries to view HTML

```
In [13]: from IPython.display import display, HTML
In [14]: display(HTML(response))
```

This mid-century inspired office chair is a perfect addition to any workspace, whether at home or in a business setting. The chair features a 5-wheel plastic coated aluminum base for stability and mobility. The pneumatic chair adjustment allows for easy raise and lower action, ensuring comfort throughout the day.

You can customize this chair to your liking with options for shell color, base finish, and upholstery material. Choose between plastic back and front upholstery or full upholstery in a variety of fabric and leather options. The base finish options include stainless steel, matte black, gloss white, or chrome. You also have the choice of adding armrests or keeping the chair armless.

Constructed with high-quality materials, the shell base glider is made of cast aluminum with a modified nylon PA6/PA66 coating, providing durability and style. The seat is filled with HD36 foam for ultimate comfort and support.

Product ID: SWC-100

Product Dimensions

Dimension	Measurements
Width	20.87 inches
Depth	20.08 inches
Height	31.50 inches
Seat Height	17.32 inches
Seat Depth	16.14 inches