Case study: Height

Setup

In [11]:

```
%matplotlib inline
import pandas as pd
import seaborn as sns
import matplotlib.pyplot as plt
import plotly.express as px

# Custom colors
blue = "#3F83F4"
blue_dark = "#062089"
blue_light = "#8DC0F6"
blue_lighter = "#BBE4FA"
grey = "#9C9C9C"
grey_dark = "#777777"
grey_light = "#B2B2B2"
orange = "#EF8733"
colors_blue = [blue, blue_light]
```

Import data

```
In [12]:
```

```
ROOT = "https://raw.githubusercontent.com/kirenz/modern-statistics/main/data/"
DATA = "height.csv"
df = pd.read_csv(ROOT + DATA)
```

In [13]:

df.head()

Out[13]:

	name	id	height	average_height_parents	gender
0	Stefanie	1	162	161	female
1	Peter	2	163	163	male
2	Stefanie	3	163	163	female
3	Manuela	4	164	165	female
4	Simon	5	164	163	male

In [14]:

df.tail()

Out[14]:

	name	id	height	average_height_parents	gender
15	Marc	16	166	166	male
16	Ralph	17	166	166	male
17	Tom	18	167	166	male
18	Steven	19	167	167	male
19	Emanuel	20	168	168	male

```
In [15]:
df.info()
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 20 entries, 0 to 19
Data columns (total 5 columns):
 # Column
                               Non-Null Count
Dtype
                               20 non-null
     name
object
 1 id
                               20 non-null
int64
                               20 non-null
     height
int64
     average height parents 20 non-null
```

int64

gender 20 non-null

object

dtypes: int64(3), object(2)

memory usage: 928.0+ bytes

In [16]:

```
df["name"] = df["name"].astype("category")
df["gender"] = df["gender"].astype("category")
```

Data exploration

In [17]:

```
sns.pairplot(df, hue="gender");
```

