

Project Mindfulness - Source Code Part One

April 8, 2021

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```
[3]: # importing necessary libraries
import numpy as np, pandas as pd, seaborn as sns, matplotlib.pyplot as plt

#reading-in target dataset
df = pd.read_csv('/home/wobbalinux/Desktop/Potential Projects/Kentucky_Inventory of Mindfulness Skills Responses/data.csv')

# FUNCTION : preparing for reversed scoring of specific items
# according to the KIMS scoring instructions
def reverse_score(num):
    if num == int(1):
        return int(5)
    if num == int(2):
        return int(4)
    if num == int(3):
        return int(3)
    if num == int(4):
        return int(2)
    if num == int(5):
        return int(1)
```

```

# FUNCTION EXECUTION : reverse scoring of specified KIMS items
df['Q3'] = df['Q3'].apply(reverse_score)
df['Q4'] = df['Q4'].apply(reverse_score)
df['Q8'] = df['Q8'].apply(reverse_score)
df['Q11'] = df['Q11'].apply(reverse_score)
df['Q12'] = df['Q12'].apply(reverse_score)
df['Q14'] = df['Q14'].apply(reverse_score)
df['Q16'] = df['Q16'].apply(reverse_score)
df['Q18'] = df['Q18'].apply(reverse_score)
df['Q20'] = df['Q20'].apply(reverse_score)
df['Q22'] = df['Q22'].apply(reverse_score)
df['Q23'] = df['Q23'].apply(reverse_score)
df['Q24'] = df['Q24'].apply(reverse_score)
df['Q27'] = df['Q27'].apply(reverse_score)
df['Q28'] = df['Q28'].apply(reverse_score)
df['Q31'] = df['Q31'].apply(reverse_score)
df['Q32'] = df['Q32'].apply(reverse_score)
df['Q35'] = df['Q35'].apply(reverse_score)
df['Q36'] = df['Q36'].apply(reverse_score)

# isolating assessment questions
# NOTE : this data frame has maintained the performed reversed scoring
questions = df.
↳drop(['observing','describing','accepting','acting','age','gender'],axis=1)

# FUNCTION : preparing to replace our numerical scoring with labeled scoring
def label_score(num):
    if num == int(1):
        return 'Never or very rarely true (1)'
    if num == int(2):
        return 'Rarely true (2)'
    if num == int(3):
        return 'Sometimes true (3)'
    if num == int(4):
        return 'Often true (4)'
    if num == int(5):
        return 'Very often or always true (5)'

# FUNCTION EXECUTION : replace numerical scoring with labeled scoring
questions = questions.applymap(label_score)

```

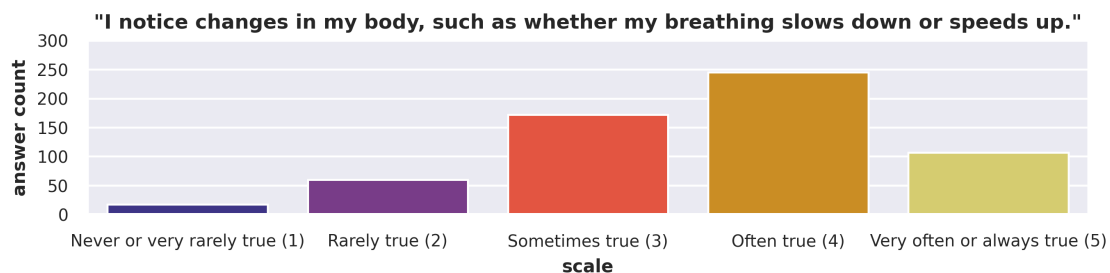
```
[22]: # OBSERVE SUBSCALE - Question 1
```

```
plt.figure(figsize=(9,1.6),dpi=350)
```

```

sns.set(style='darkgrid')
sns.countplot(x='Q1',data=questions,palette='CMRmap',order=['Never or very
↳rarely true (1)',
                    'Rarely true (2)', 'Sometimes true (3)', 'Often true (4)', 'Very
↳often or always true (5)'])
plt.title('"I notice changes in my body, such as whether my breathing slows
↳down or speeds up."',
          size=10,fontweight='bold')
plt.xlabel('scale',size=9,fontweight='bold')
plt.ylabel('answer count',size=9,fontweight='bold')
plt.yticks([0,50,100,150,200,250,300])
plt.tick_params(axis='both', which='major', labelsize=8.3)
plt.savefig('/home/wobbalinux/Desktop/Potential Projects/Kentucky Inventory of
↳Mindfulness Skills Responses/All Item Visuals/Ob1',bbox_inches='tight')

```



[23]: # DESCRIBE SUBSCALE - Question 2

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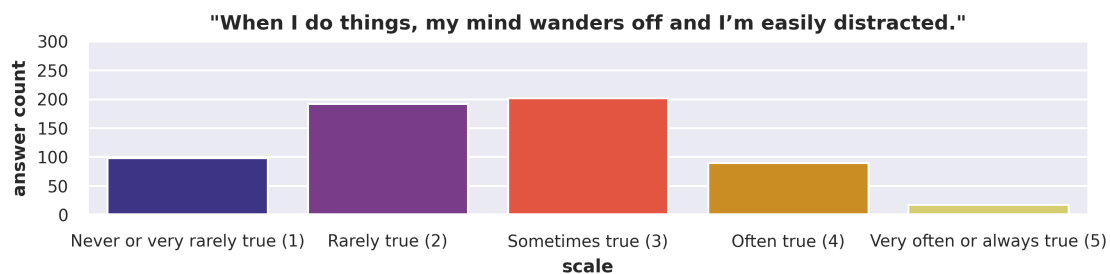
plt.figure(figsize=(9,1.6),dpi=350)
sns.set(style='darkgrid')
sns.countplot(x='Q2',data=questions,palette='CMRmap',order=['Never or very
↳rarely true (1)',
                    'Rarely true (2)', 'Sometimes true (3)', 'Often true (4)', 'Very
↳often or always true (5)'])
plt.title('"I'm good at finding the words to describe my feelings."',
          size=10,fontweight='bold')
plt.xlabel('scale',size=9,fontweight='bold')
plt.ylabel('answer count',size=9,fontweight='bold')
plt.yticks([0,50,100,150,200,250,300])
plt.tick_params(axis='both', which='major', labelsize=8.3)
plt.savefig('/home/wobbalinux/Desktop/Potential Projects/Kentucky Inventory of
↳Mindfulness Skills Responses/All Item Visuals/Ob2',bbox_inches='tight')

```



[24]: # ACT WITH AWARENESS SUBSCALE - Question 3

```
plt.figure(figsize=(9,1.6),dpi=350)
sns.set(style='darkgrid')
sns.countplot(x='Q3',data=questions,palette='CMRmap',order=['Never or very
↳rarely true (1)',
                    'Rarely true (2)', 'Sometimes true (3)', 'Often true (4)', 'Very often
↳or always true (5)'])
plt.title('"When I do things, my mind wanders off and I'm easily distracted."',
          size=10,fontweight='bold')
plt.xlabel('scale',size=9,fontweight='bold')
plt.ylabel('answer count',size=9,fontweight='bold')
plt.yticks([0,50,100,150,200,250,300])
plt.tick_params(axis='both', which='major', labelsize=8.3)
plt.savefig('/home/wobbalinux/Desktop/Potential Projects/Kentucky Inventory of
↳Mindfulness Skills Responses/All Item Visuals/Ob3',bbox_inches='tight')
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[25]: # ACCEPT WITHOUT JUDGMENT SUBSCALE - Question 4

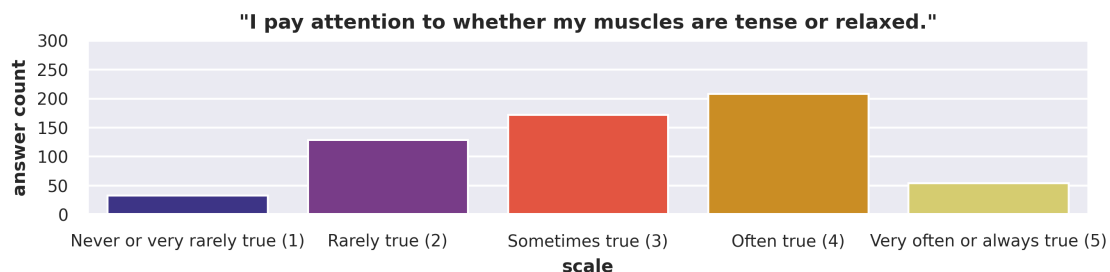
```
plt.figure(figsize=(9,1.6),dpi=350)
sns.set(style='darkgrid')
sns.countplot(x='Q4',data=questions,palette='CMRmap',order=['Never or very
↳rarely true (1)',
                    'Rarely true (2)', 'Sometimes true (3)', 'Often true (4)', 'Very often
↳or always true (5)'])
```

```
plt.title('"I criticize myself for having irrational or inappropriate emotions."',
        size=10,fontweight='bold')
plt.xlabel('scale',size=9,fontweight='bold')
plt.ylabel('answer count',size=9,fontweight='bold')
plt.yticks([0,50,100,150,200,250,300])
plt.tick_params(axis='both', which='major', labelsize=8.3)
plt.savefig('/home/wobbalinux/Desktop/Potential Projects/Kentucky Inventory of Mindfulness Skills Responses/All Item Visuals/Ob4',bbox_inches='tight')
```



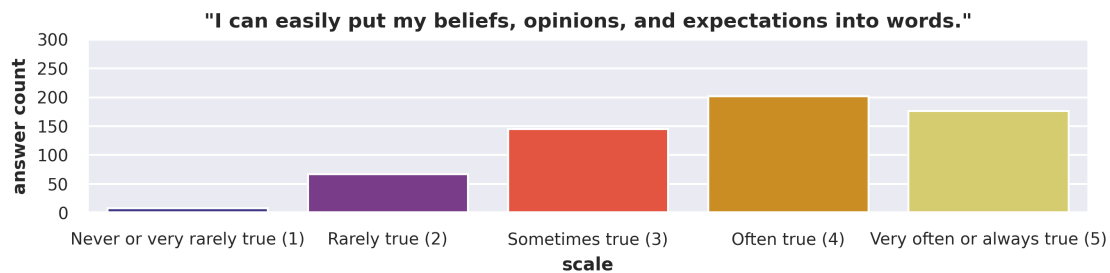
[26]: # OBSERVE SUBSCALE - Question 5

```
plt.figure(figsize=(9,1.6),dpi=350)
sns.set(style='darkgrid')
sns.countplot(x='Q5',data=questions,palette='CMRmap',order=['Never or very rarely true (1)',
        'Rarely true (2)', 'Sometimes true (3)', 'Often true (4)', 'Very often or always true (5)'])
plt.title('"I pay attention to whether my muscles are tense or relaxed."',
        size=10,fontweight='bold')
plt.xlabel('scale',size=9,fontweight='bold')
plt.ylabel('answer count',size=9,fontweight='bold')
plt.yticks([0,50,100,150,200,250,300])
plt.tick_params(axis='both', which='major', labelsize=8.3)
plt.savefig('/home/wobbalinux/Desktop/Potential Projects/Kentucky Inventory of Mindfulness Skills Responses/All Item Visuals/Ob5',bbox_inches='tight')
```



[29]: # DESCRIBE SUBSCALE - Question 6

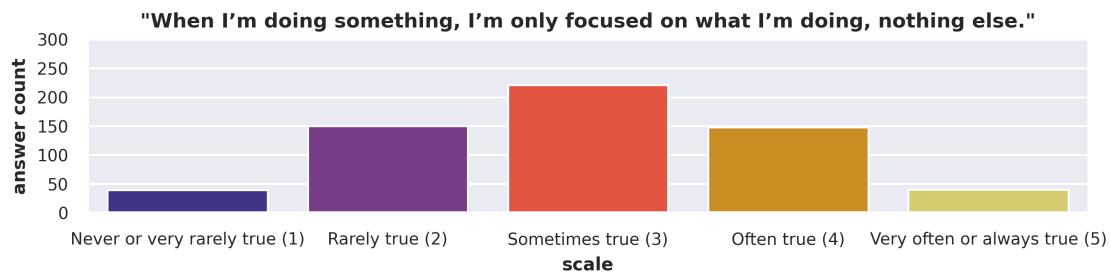
```
plt.figure(figsize=(9,1.6),dpi=350)
sns.set(style='darkgrid')
sns.countplot(x='Q6',data=questions,palette='CMRmap',order=['Never or very
↳rarely true (1)',
                    'Rarely true (2)', 'Sometimes true (3)', 'Often true (4)', 'Very often
↳or always true (5)'])
plt.title('"I can easily put my beliefs, opinions, and expectations into words.
↳"',
          size=10,fontweight='bold')
plt.xlabel('scale',size=9,fontweight='bold')
plt.ylabel('answer count',size=9,fontweight='bold')
plt.yticks([0,50,100,150,200,250,300])
plt.tick_params(axis='both', which='major',labelsize=8.3)
plt.savefig('/home/wobbalinux/Desktop/Potential Projects/Kentucky Inventory of
↳Mindfulness Skills Responses/All Item Visuals/Ob6',bbox_inches='tight')
```



[30]: # ACT WITH AWARENESS SUBSCALE - Question 7

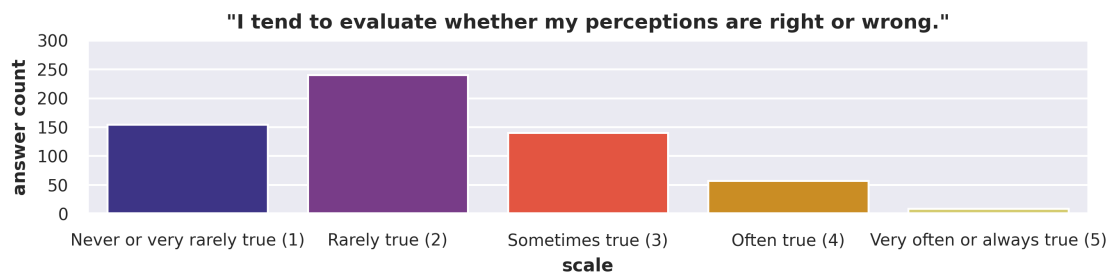
```
plt.figure(figsize=(9,1.6),dpi=350)
sns.set(style='darkgrid')
sns.countplot(x='Q7',data=questions,palette='CMRmap',order=['Never or very
↳rarely true (1)',
                    'Rarely true (2)', 'Sometimes true (3)', 'Often true (4)', 'Very often
↳or always true (5)'])
plt.title('"When I'm doing something, I'm only focused on what I'm doing,
↳nothing else."',
          size=10,fontweight='bold')
plt.xlabel('scale',size=9,fontweight='bold')
plt.ylabel('answer count',size=9,fontweight='bold')
plt.yticks([0,50,100,150,200,250,300])
plt.tick_params(axis='both', which='major', labelsize=8.3)
```

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plt.savefig('/home/wobbalinux/Desktop/Potential Projects/Kentucky Inventory of Mindfulness Skills Responses/All Item Visuals/Ob7',bbox_inches='tight')
```



[32]: # ACCEPT WITHOUT JUDGMENT SUBSCALE - Question 8

```
plt.figure(figsize=(9,1.6),dpi=350)
sns.set(style='darkgrid')
sns.countplot(x='Q8',data=questions,palette='CMRmap',order=['Never or very rarely true (1)',
    'Rarely true (2)', 'Sometimes true (3)', 'Often true (4)', 'Very often or always true (5)'])
plt.title('"I tend to evaluate whether my perceptions are right or wrong."',
    size=10,fontweight='bold')
plt.xlabel('scale',size=9,fontweight='bold')
plt.ylabel('answer count',size=9,fontweight='bold')
plt.yticks([0,50,100,150,200,250,300])
plt.tick_params(axis='both', which='major', labelsize=8.3)
plt.savefig('/home/wobbalinux/Desktop/Potential Projects/Kentucky Inventory of Mindfulness Skills Responses/All Item Visuals/Ob8',bbox_inches='tight')
```



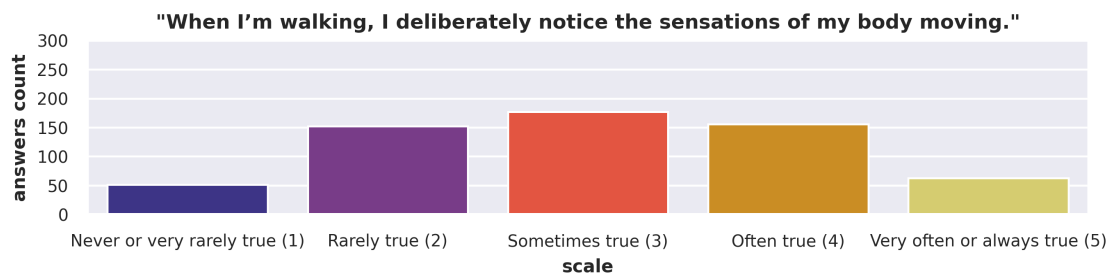
[33]: # OBSERVE SUBSCALE - Question 9

```
plt.figure(figsize=(9,1.6),dpi=350)
sns.set(style='darkgrid')
```

```

sns.countplot(x='Q9',data=questions,palette='CMRmap',order=['Never or very
↳rarely true (1)',
                'Rarely true (2)', 'Sometimes true (3)', 'Often true (4)', 'Very often
↳or always true (5)'])
plt.title('"When I'm walking, I deliberately notice the sensations of my body
↳moving."',
        size=10,fontweight='bold')
plt.xlabel('scale',size=9,fontweight='bold')
plt.ylabel('answers count',size=9,fontweight='bold')
plt.yticks([0,50,100,150,200,250,300])
plt.tick_params(axis='both', which='major', labelsize=8.3)
plt.savefig('/home/wobbalinux/Desktop/Potential Projects/Kentucky Inventory of
↳Mindfulness Skills Responses/All Item Visuals/Ob9',bbox_inches='tight')

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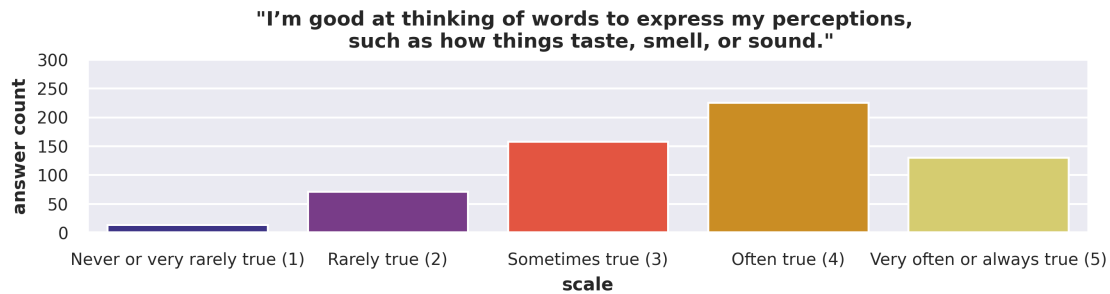


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[91]: # DESCRIBE SUBSCALE - Question 10

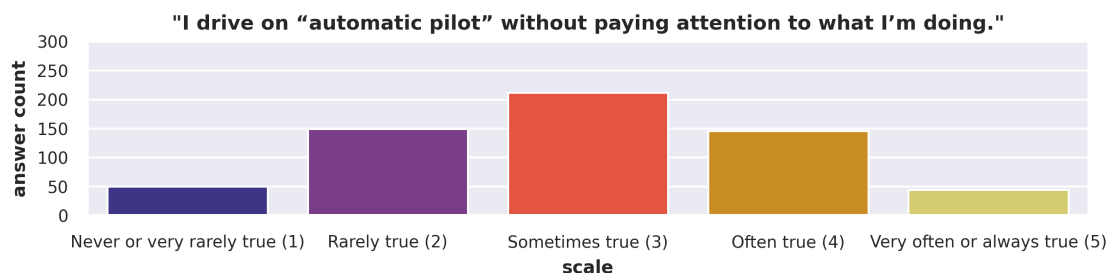
plt.figure(figsize=(9,1.6),dpi=350)
sns.set(style='darkgrid')
sns.countplot(x='Q10',data=questions,palette='CMRmap',order=['Never or very
↳rarely true (1)',
                'Rarely true (2)', 'Sometimes true (3)', 'Often true (4)', 'Very often
↳or always true (5)'])
plt.title('"I'm good at thinking of words to express my perceptions, \n such as
↳how things taste, smell, or sound."',
        size=10,fontweight='bold')
plt.xlabel('scale',size=9,fontweight='bold')
plt.ylabel('answer count',size=9,fontweight='bold')
plt.yticks([0,50,100,150,200,250,300])
plt.tick_params(axis='both', which='major', labelsize=8.3)
plt.savefig('/home/wobbalinux/Desktop/Potential Projects/Kentucky Inventory of
↳Mindfulness Skills Responses/All Item Visuals/Ob10',bbox_inches='tight')

```



[37]: # ACT WITH AWARENESS SUBSCALE - Question 11

```
plt.figure(figsize=(9,1.6),dpi=350)
sns.set(style='darkgrid')
sns.countplot(x='Q11',data=questions,palette='CMRmap',order=['Never or very
↳rarely true (1)',
                    'Rarely true (2)','Sometimes true (3)','Often true (4)','Very often
↳or always true (5)'])
plt.title('"I drive on "automatic pilot" without paying attention to what I'm
↳doing."',
          size=10,fontweight='bold')
plt.xlabel('scale',size=9,fontweight='bold')
plt.ylabel('answer count',size=9,fontweight='bold')
plt.yticks([0,50,100,150,200,250,300])
plt.tick_params(axis='both', which='major', labels=8.3)
plt.savefig('/home/wobbalinux/Desktop/Potential Projects/Kentucky Inventory of
↳Mindfulness Skills Responses/All Item Visuals/Ob11',bbox_inches='tight')
```



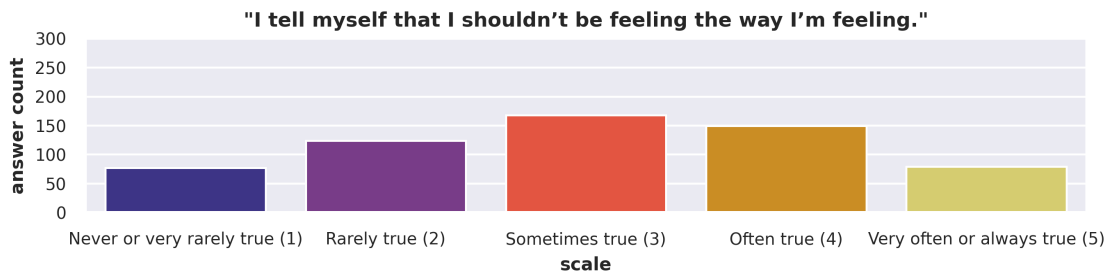
[38]: # ACCEPT WITHOUT JUDGMENT SUBSCALE - Question 12

```
plt.figure(figsize=(9,1.6),dpi=350)
sns.set(style='darkgrid')
sns.countplot(x='Q12',data=questions,palette='CMRmap',order=['Never or very
↳rarely true (1)',
```

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        'Rarely true (2)', 'Sometimes true (3)', 'Often true (4)', 'Very often or always true (5)'])
plt.title('"I tell myself that I shouldn't be feeling the way I'm feeling."',
        size=10, fontweight='bold')
plt.xlabel('scale', size=9, fontweight='bold')
plt.ylabel('answer count', size=9, fontweight='bold')
plt.yticks([0, 50, 100, 150, 200, 250, 300])
plt.tick_params(axis='both', which='major', labelsize=8.3)
plt.savefig('/home/wobbalinux/Desktop/Potential Projects/Kentucky Inventory of Mindfulness Skills Responses/All Item Visuals/Ob12', bbox_inches='tight')

```

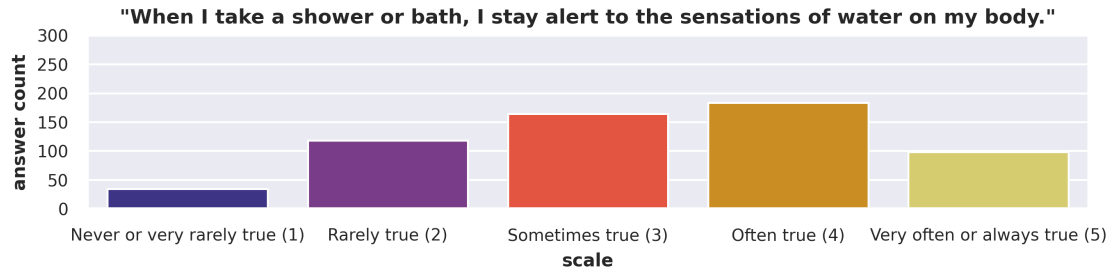


[39]: # OBSERVE SUBSCALE - Question 13

```

plt.figure(figsize=(9,1.6),dpi=350)
sns.set(style='darkgrid')
sns.countplot(x='Q13', data=questions, palette='CMRmap', order=['Never or very rarely true (1)',
        'Rarely true (2)', 'Sometimes true (3)', 'Often true (4)', 'Very often or always true (5)'])
plt.title('"When I take a shower or bath, I stay alert to the sensations of water on my body."',
        size=10, fontweight='bold')
plt.xlabel('scale', size=9, fontweight='bold')
plt.ylabel('answer count', size=9, fontweight='bold')
plt.yticks([0, 50, 100, 150, 200, 250, 300])
plt.tick_params(axis='both', which='major', labelsize=8.3)
plt.savefig('/home/wobbalinux/Desktop/Potential Projects/Kentucky Inventory of Mindfulness Skills Responses/All Item Visuals/Ob13', bbox_inches='tight')

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[40]: # DESCRIBE SUBSCALE - Question 14

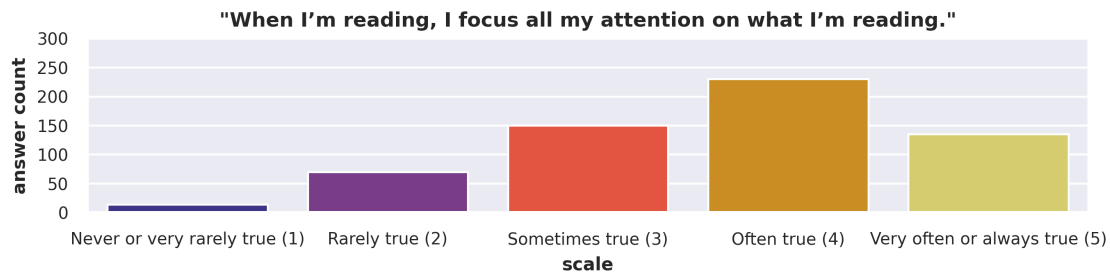
```
plt.figure(figsize=(9,1.6),dpi=350)
sns.set(style='darkgrid')
sns.countplot(x='Q14',data=questions,palette='CMRmap',order=['Never or very
↳rarely true (1)',
                    'Rarely true (2)', 'Sometimes true (3)', 'Often true (4)', 'Very often
↳or always true (5)'])
plt.title('"It's hard for me to find the words to describe what I'm thinking."',
          size=10,fontweight='bold')
plt.xlabel('scale',size=9,fontweight='bold')
plt.ylabel('answer count',size=9,fontweight='bold')
plt.yticks([0,50,100,150,200,250,300])
plt.tick_params(axis='both', which='major', labelsize=8.3)
plt.savefig('/home/wobbalinux/Desktop/Potential Projects/Kentucky Inventory of
↳Mindfulness Skills Responses/All Item Visuals/Ob14',bbox_inches='tight')
```



[41]: # ACT WITH AWARENESS SUBSCALE - Question 15

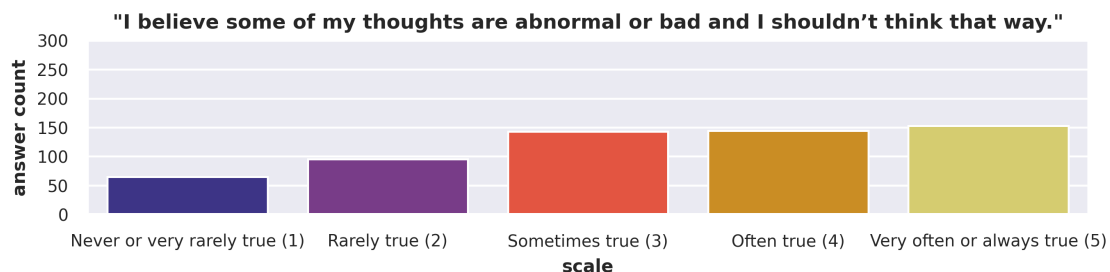
```
plt.figure(figsize=(9,1.6),dpi=350)
sns.set(style='darkgrid')
sns.countplot(x='Q15',data=questions,palette='CMRmap',order=['Never or very
↳rarely true (1)',
                    'Rarely true (2)', 'Sometimes true (3)', 'Often true (4)', 'Very often
↳or always true (5)'])
```

```
plt.title('"When I'm reading, I focus all my attention on what I'm reading."',
        size=10,fontweight='bold')
plt.xlabel('scale',size=9,fontweight='bold')
plt.ylabel('answer count',size=9,fontweight='bold')
plt.yticks([0,50,100,150,200,250,300])
plt.tick_params(axis='both', which='major', labelsize=8.3)
plt.savefig('/home/wobbalinux/Desktop/Potential Projects/Kentucky Inventory of_
↳Mindfulness Skills Responses/All Item Visuals/Ob15',bbox_inches='tight')
```



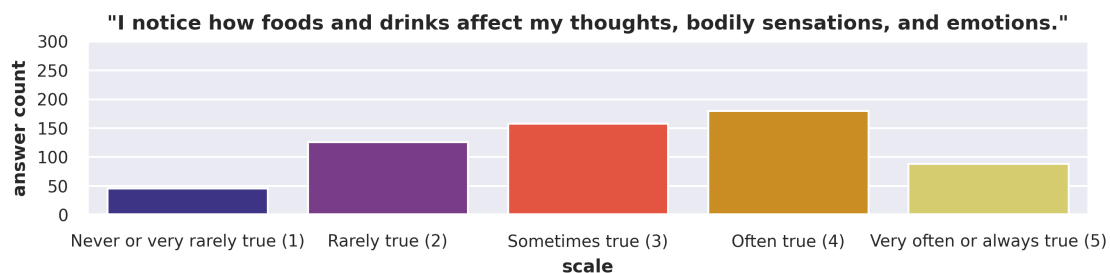
[42]: # ACCEPT WITHOUT JUDGMENT SUBSCALE - Question 16

```
plt.figure(figsize=(9,1.6),dpi=350)
sns.set(style='darkgrid')
sns.countplot(x='Q16',data=questions,palette='CMRmap',order=['Never or very_
↳rarely true (1)',
                    'Rarely true (2)', 'Sometimes true (3)', 'Often true (4)', 'Very often_
↳or always true (5)'])
plt.title('"I believe some of my thoughts are abnormal or bad and I shouldn't_
↳think that way."',
        size=10,fontweight='bold')
plt.xlabel('scale',size=9,fontweight='bold')
plt.ylabel('answer count',size=9,fontweight='bold')
plt.yticks([0,50,100,150,200,250,300])
plt.tick_params(axis='both', which='major', labelsize=8.3)
plt.savefig('/home/wobbalinux/Desktop/Potential Projects/Kentucky Inventory of_
↳Mindfulness Skills Responses/All Item Visuals/Ob16',bbox_inches='tight')
```



[43]: # OBSERVE SUBSCALE - Question 17

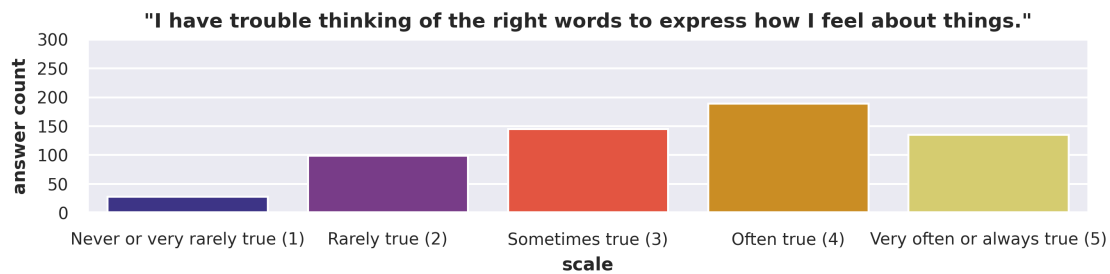
```
plt.figure(figsize=(9,1.6),dpi=350)
sns.set(style='darkgrid')
sns.countplot(x='Q17',data=questions,palette='CMRmap',order=['Never or very
↳rarely true (1)',
                    'Rarely true (2)', 'Sometimes true (3)', 'Often true (4)', 'Very often
↳or always true (5)'])
plt.title('"I notice how foods and drinks affect my thoughts, bodily
↳sensations, and emotions."',
          size=10,fontweight='bold')
plt.xlabel('scale',size=9,fontweight='bold')
plt.ylabel('answer count',size=9,fontweight='bold')
plt.yticks([0,50,100,150,200,250,300])
plt.tick_params(axis='both', which='major', labels=8.3)
plt.savefig('/home/wobbalinux/Desktop/Potential Projects/Kentucky Inventory of
↳Mindfulness Skills Responses/All Item Visuals/Ob17',bbox_inches='tight')
```



[44]: # DESCRIBE SUBSCALE - Question 18

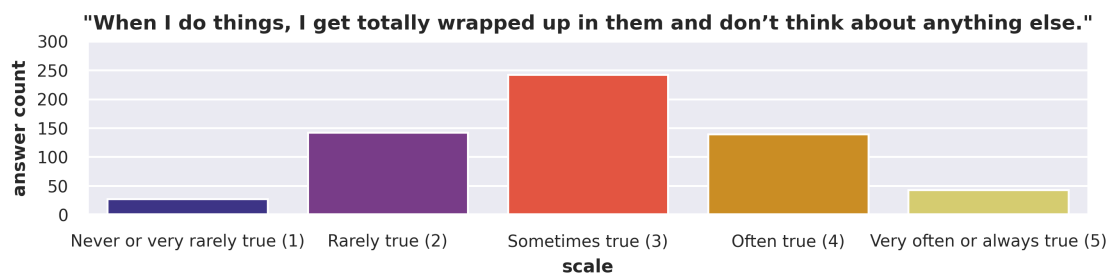
```
plt.figure(figsize=(9,1.6),dpi=350)
sns.set(style='darkgrid')
sns.countplot(x='Q18',data=questions,palette='CMRmap',order=['Never or very
↳rarely true (1)',
                    'Rarely true (2)', 'Sometimes true (3)', 'Often true (4)', 'Very often
↳or always true (5)'])
plt.title('"I have trouble thinking of the right words to express how I feel
↳about things."',
          size=10,fontweight='bold')
plt.xlabel('scale',size=9,fontweight='bold')
plt.ylabel('answer count',size=9,fontweight='bold')
plt.yticks([0,50,100,150,200,250,300])
plt.tick_params(axis='both', which='major', labels=8.3)
```

```
plt.savefig('/home/wobbalinux/Desktop/Potential Projects/Kentucky Inventory of_
↳Mindfulness Skills Responses/All Item Visuals/Ob18',bbox_inches='tight')
```



[45]: # ACT WITH AWARENESS SUBSCALE - Question 19

```
plt.figure(figsize=(9,1.6),dpi=350)
sns.set(style='darkgrid')
sns.countplot(x='Q19',data=questions,palette='CMRmap',order=['Never or very_
↳rarely true (1)',
                    'Rarely true (2)','Sometimes true (3)','Often true (4)','Very often_
↳or always true (5)'])
plt.title('"When I do things, I get totally wrapped up in them and don't think_
↳about anything else."',
          size=10,fontweight='bold')
plt.xlabel('scale',size=9,fontweight='bold')
plt.ylabel('answer count',size=9,fontweight='bold')
plt.yticks([0,50,100,150,200,250,300])
plt.tick_params(axis='both', which='major', labelsize=8.3)
plt.savefig('/home/wobbalinux/Desktop/Potential Projects/Kentucky Inventory of_
↳Mindfulness Skills Responses/All Item Visuals/Ob19',bbox_inches='tight')
```



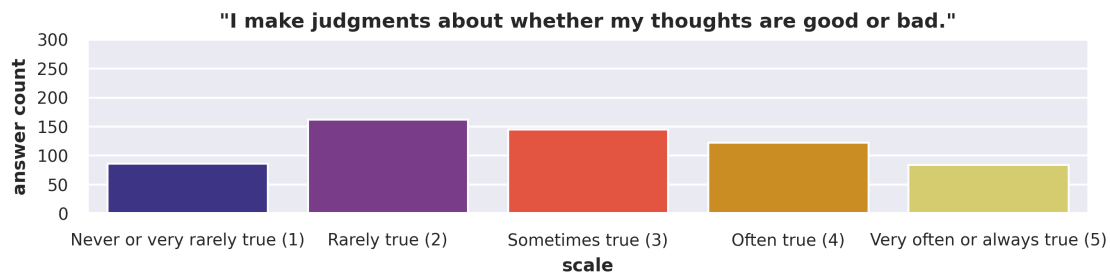
[46]: # ACCEPT WITHOUT JUDGMENT SUBSCALE - Question 20

```
plt.figure(figsize=(9,1.6),dpi=350)
```

```

sns.set(style='darkgrid')
sns.countplot(x='Q20',data=questions,palette='CMRmap',order=['Never or very
↳rarely true (1)',
                    'Rarely true (2)', 'Sometimes true (3)', 'Often true (4)', 'Very often
↳or always true (5)'])
plt.title('"I make judgments about whether my thoughts are good or bad."',
          size=10,fontweight='bold')
plt.xlabel('scale',size=9,fontweight='bold')
plt.ylabel('answer count',size=9,fontweight='bold')
plt.yticks([0,50,100,150,200,250,300])
plt.tick_params(axis='both', which='major', labelsize=8.3)
plt.savefig('/home/wobbalinux/Desktop/Potential Projects/Kentucky Inventory of
↳Mindfulness Skills Responses/All Item Visuals/Ob20',bbox_inches='tight')

```

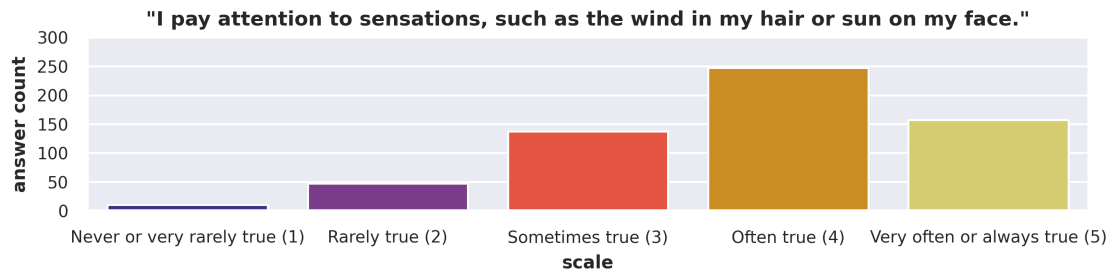


[47]: # OBSERVE SUBSCALE - Question 21

```

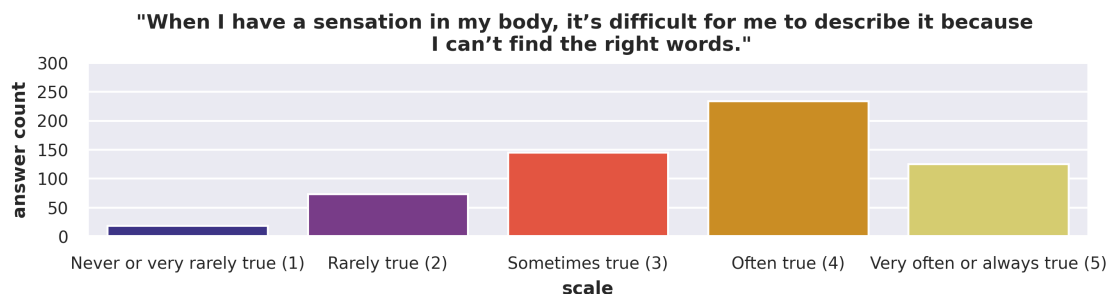
plt.figure(figsize=(9,1.6),dpi=350)
sns.set(style='darkgrid')
sns.countplot(x='Q21',data=questions,palette='CMRmap',order=['Never or very
↳rarely true (1)',
                    'Rarely true (2)', 'Sometimes true (3)', 'Often true (4)', 'Very often
↳or always true (5)'])
plt.title('"I pay attention to sensations, such as the wind in my hair or sun
↳on my face."',
          size=10,fontweight='bold')
plt.xlabel('scale',size=9,fontweight='bold')
plt.ylabel('answer count',size=9,fontweight='bold')
plt.yticks([0,50,100,150,200,250,300])
plt.tick_params(axis='both', which='major', labelsize=8.3)
plt.savefig('/home/wobbalinux/Desktop/Potential Projects/Kentucky Inventory of
↳Mindfulness Skills Responses/All Item Visuals/Ob21',bbox_inches='tight')

```



```
[90]: # DESCRIBE SUBSCALE - Question 22

plt.figure(figsize=(9,1.6),dpi=350)
sns.set(style='darkgrid')
sns.countplot(x='Q22',data=questions,palette='CMRmap',order=['Never or very
↳rarely true (1)',
                    'Rarely true (2)', 'Sometimes true (3)', 'Often true (4)', 'Very often
↳or always true (5)'])
plt.title('"When I have a sensation in my body, it's difficult for me to
↳describe it because \n I can't find the right words."',
          size=10,fontweight='bold')
plt.xlabel('scale',size=9,fontweight='bold')
plt.ylabel('answer count',size=9,fontweight='bold')
plt.yticks([0,50,100,150,200,250,300])
plt.tick_params(axis='both', which='major', labelsize=8.3)
plt.savefig('/home/wobbalinux/Desktop/Potential Projects/Kentucky Inventory of
↳Mindfulness Skills Responses/All Item Visuals/Ob22',bbox_inches='tight')
```



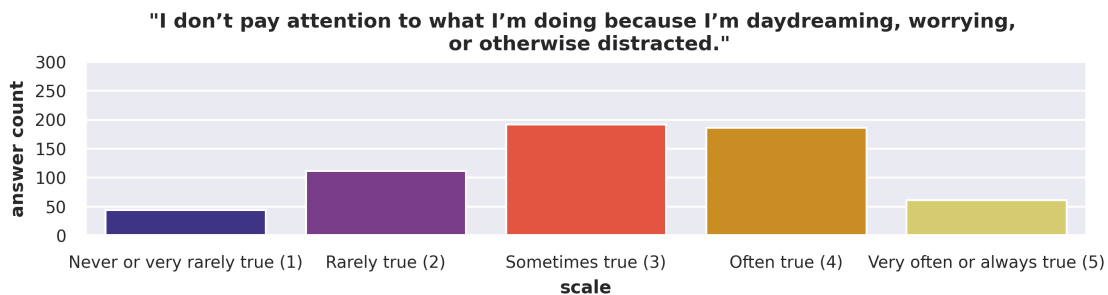
```
[89]: # ACT WITH AWARENESS SUBSCALE - Question 23

plt.figure(figsize=(9,1.6),dpi=350)
sns.set(style='darkgrid')
sns.countplot(x='Q23',data=questions,palette='CMRmap',order=['Never or very
↳rarely true (1)',
```

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        'Rarely true (2)', 'Sometimes true (3)', 'Often true (4)', 'Very often or always true (5)'])
plt.title('"I don't pay attention to what I'm doing because I'm daydreaming, worrying, \n or otherwise distracted."',
        size=10, fontweight='bold')
plt.xlabel('scale', size=9, fontweight='bold')
plt.ylabel('answer count', size=9, fontweight='bold')
plt.yticks([0, 50, 100, 150, 200, 250, 300])
plt.tick_params(axis='both', which='major', labelsize=8.3)
plt.savefig('/home/wobbalinux/Desktop/Potential Projects/Kentucky Inventory of Mindfulness Skills Responses/All Item Visuals/Ob23', bbox_inches='tight')

```

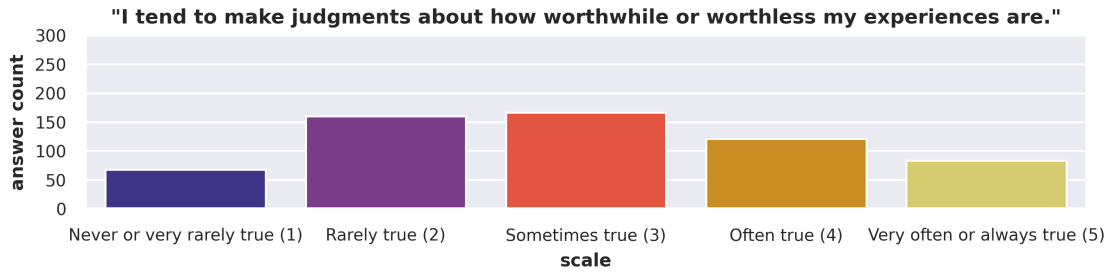


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[57]: # ACCEPT WITHOUT JUDGMENT SUBSCALE - Question 24

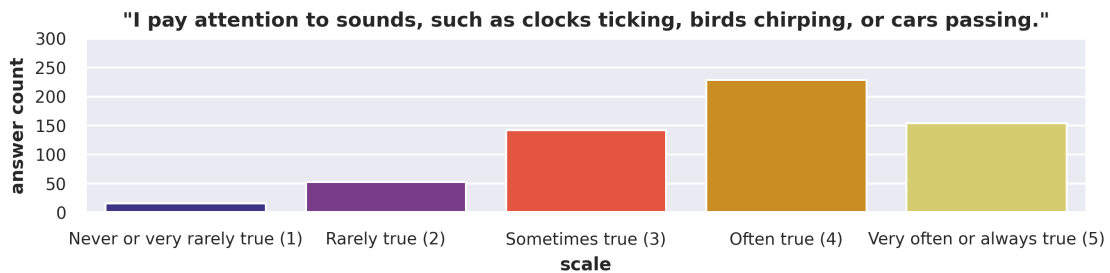
plt.figure(figsize=(9,1.6),dpi=350)
sns.set(style='darkgrid')
sns.countplot(x='Q24', data=questions, palette='CMRmap', order=['Never or very rarely true (1)',
        'Rarely true (2)', 'Sometimes true (3)', 'Often true (4)', 'Very often or always true (5)'])
plt.title('"I tend to make judgments about how worthwhile or worthless my experiences are."',
        size=10, fontweight='bold')
plt.xlabel('scale', size=9, fontweight='bold')
plt.ylabel('answer count', size=9, fontweight='bold')
plt.yticks([0, 50, 100, 150, 200, 250, 300])
plt.tick_params(axis='both', which='major', labelsize=8.3)
plt.savefig('/home/wobbalinux/Desktop/Potential Projects/Kentucky Inventory of Mindfulness Skills Responses/All Item Visuals/Ob24', bbox_inches='tight')

```



[58]: # OBSERVE SUBSCALE - Question 25

```
plt.figure(figsize=(9,1.6),dpi=350)
sns.set(style='darkgrid')
sns.countplot(x='Q25',data=questions,palette='CMRmap',order=['Never or very
↳rarely true (1)',
                    'Rarely true (2)','Sometimes true (3)','Often true (4)','Very often
↳or always true (5)'])
plt.title('"I pay attention to sounds, such as clocks ticking, birds chirping,
↳or cars passing."',
          size=10,fontweight='bold')
plt.xlabel('scale',size=9,fontweight='bold')
plt.ylabel('answer count',size=9,fontweight='bold')
plt.yticks([0,50,100,150,200,250,300])
plt.tick_params(axis='both', which='major', labelsize=8.3)
plt.savefig('/home/wobbalinux/Desktop/Potential Projects/Kentucky Inventory of
↳Mindfulness Skills Responses/All Item Visuals/Ob25',bbox_inches='tight')
```



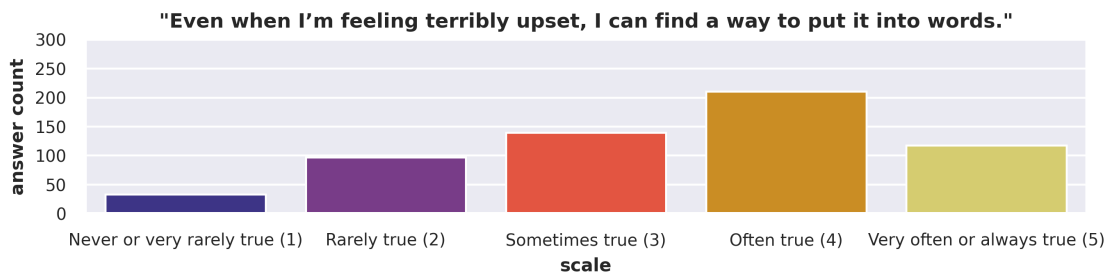
[59]: # DESCRIBE SUBSCALE - Question 26

```
plt.figure(figsize=(9,1.6),dpi=350)
sns.set(style='darkgrid')
sns.countplot(x='Q26',data=questions,palette='CMRmap',order=['Never or very
↳rarely true (1)',
```

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        'Rarely true (2)', 'Sometimes true (3)', 'Often true (4)', 'Very often
        ↳or always true (5)'])
plt.title('"Even when I\'m feeling terribly upset, I can find a way to put it
        ↳into words."',
        size=10, fontweight='bold')
plt.xlabel('scale', size=9, fontweight='bold')
plt.ylabel('answer count', size=9, fontweight='bold')
plt.yticks([0, 50, 100, 150, 200, 250, 300])
plt.tick_params(axis='both', which='major', labelsize=8.3)
plt.savefig('/home/wobbalinux/Desktop/Potential Projects/Kentucky Inventory of
        ↳Mindfulness Skills Responses/All Item Visuals/Ob26', bbox_inches='tight')

```

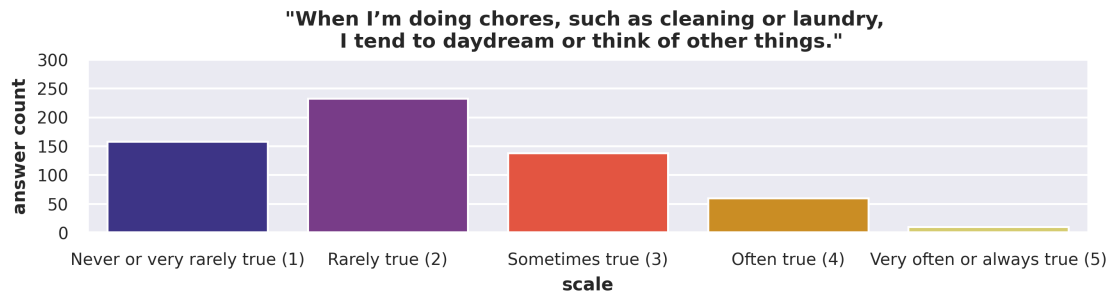


[88]: # ACT WITH AWARENESS SUBSCALE - Question 27

```

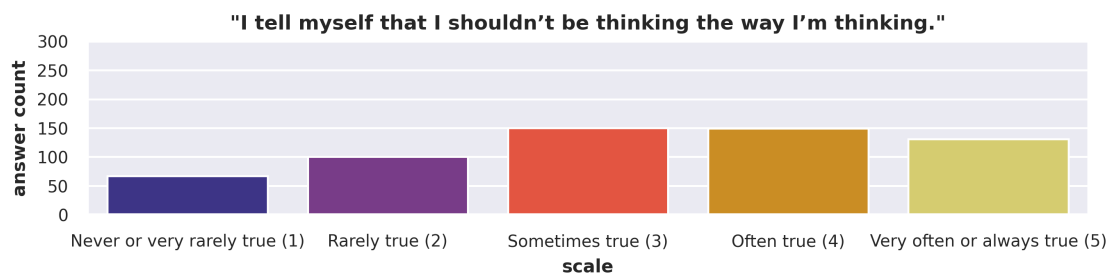
plt.figure(figsize=(9,1.6), dpi=350)
sns.set(style='darkgrid')
sns.countplot(x='Q27', data=questions, palette='CMRmap', order=['Never or very
        ↳rarely true (1)',
        'Rarely true (2)', 'Sometimes true (3)', 'Often true (4)', 'Very often
        ↳or always true (5)'])
plt.title('"When I\'m doing chores, such as cleaning or laundry, \n I tend to
        ↳daydream or think of other things."',
        size=10, fontweight='bold')
plt.xlabel('scale', size=9, fontweight='bold')
plt.ylabel('answer count', size=9, fontweight='bold')
plt.yticks([0, 50, 100, 150, 200, 250, 300])
plt.tick_params(axis='both', which='major', labelsize=8.3)
plt.savefig('/home/wobbalinux/Desktop/Potential Projects/Kentucky Inventory of
        ↳Mindfulness Skills Responses/All Item Visuals/Ob27', bbox_inches='tight')

```



[63]: # ACCEPT WITHOUT JUDGMENT SUBSCALE - Question 28

```
plt.figure(figsize=(9,1.6),dpi=350)
sns.set(style='darkgrid')
sns.countplot(x='Q28',data=questions,palette='CMRmap',order=['Never or very
↳rarely true (1)',
                    'Rarely true (2)','Sometimes true (3)','Often true (4)','Very often
↳or always true (5)'])
plt.title('"I tell myself that I shouldn't be thinking the way I'm thinking."',
          size=10,fontweight='bold')
plt.xlabel('scale',size=9,fontweight='bold')
plt.ylabel('answer count',size=9,fontweight='bold')
plt.yticks([0,50,100,150,200,250,300])
plt.tick_params(axis='both', which='major', labelsize=8.3)
plt.savefig('/home/wobbalinux/Desktop/Potential Projects/Kentucky Inventory of
↳Mindfulness Skills Responses/All Item Visuals/Ob28',bbox_inches='tight')
```



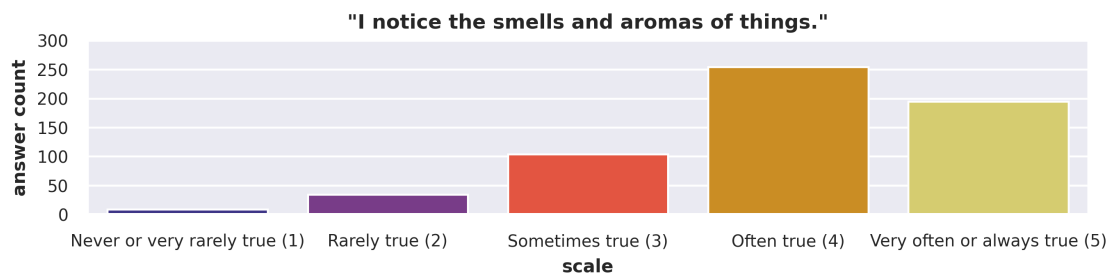
[64]: # OBSERVE SUBSCALE - Question 29

```
plt.figure(figsize=(9,1.6),dpi=350)
sns.set(style='darkgrid')
sns.countplot(x='Q29',data=questions,palette='CMRmap',order=['Never or very
↳rarely true (1)',
```

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        'Rarely true (2)', 'Sometimes true (3)', 'Often true (4)', 'Very often or always true (5)'])
plt.title('"I notice the smells and aromas of things."',
        size=10, fontweight='bold')
plt.xlabel('scale', size=9, fontweight='bold')
plt.ylabel('answer count', size=9, fontweight='bold')
plt.yticks([0, 50, 100, 150, 200, 250, 300])
plt.tick_params(axis='both', which='major', labelsize=8.3)
plt.savefig('/home/wobbalinux/Desktop/Potential Projects/Kentucky Inventory of Mindfulness Skills Responses/All Item Visuals/Ob29', bbox_inches='tight')

```

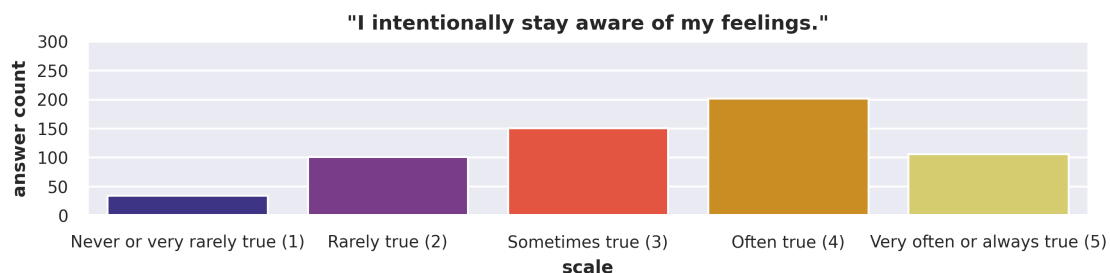


[65]: # OBSERVE SUBSCALE - Question 30

```

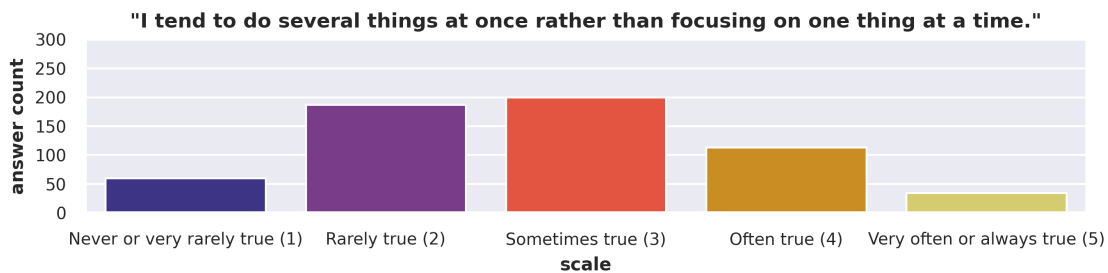
plt.figure(figsize=(9, 1.6), dpi=350)
sns.set(style='darkgrid')
sns.countplot(x='Q30', data=questions, palette='CMRmap', order=['Never or very rarely true (1)',
        'Rarely true (2)', 'Sometimes true (3)', 'Often true (4)', 'Very often or always true (5)'])
plt.title('"I intentionally stay aware of my feelings."',
        size=10, fontweight='bold')
plt.xlabel('scale', size=9, fontweight='bold')
plt.ylabel('answer count', size=9, fontweight='bold')
plt.yticks([0, 50, 100, 150, 200, 250, 300])
plt.tick_params(axis='both', which='major', labelsize=8.3)
plt.savefig('/home/wobbalinux/Desktop/Potential Projects/Kentucky Inventory of Mindfulness Skills Responses/All Item Visuals/Ob30', bbox_inches='tight')

```



[66]: # ACT WITH AWARENESS SUBSCALE - Question 31

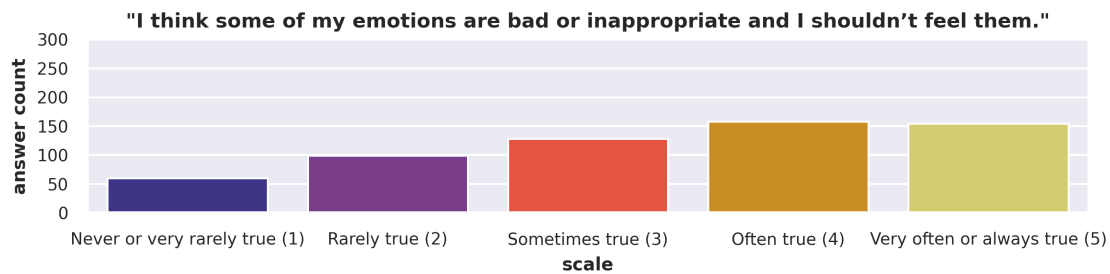
```
plt.figure(figsize=(9,1.6),dpi=350)
sns.set(style='darkgrid')
sns.countplot(x='Q31',data=questions,palette='CMRmap',order=['Never or very
↳rarely true (1)',
                    'Rarely true (2)', 'Sometimes true (3)', 'Often true (4)', 'Very often
↳or always true (5)'])
plt.title('"I tend to do several things at once rather than focusing on one
↳thing at a time."',
          size=10,fontweight='bold')
plt.xlabel('scale',size=9,fontweight='bold')
plt.ylabel('answer count',size=9,fontweight='bold')
plt.yticks([0,50,100,150,200,250,300])
plt.tick_params(axis='both', which='major', labels=8.3)
plt.savefig('/home/wobbalinux/Desktop/Potential Projects/Kentucky Inventory of
↳Mindfulness Skills Responses/All Item Visuals/Ob31',bbox_inches='tight')
```



[67]: # ACCEPT WITHOUT JUDGMENT SUBSCALE - Question 32

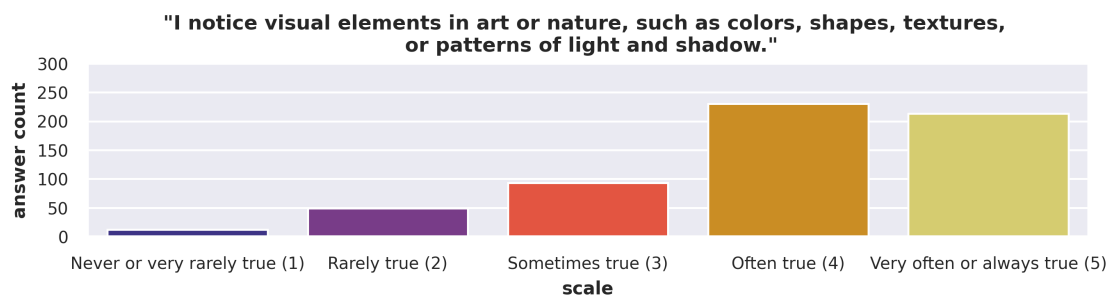
```
plt.figure(figsize=(9,1.6),dpi=350)
sns.set(style='darkgrid')
sns.countplot(x='Q32',data=questions,palette='CMRmap',order=['Never or very
↳rarely true (1)',
                    'Rarely true (2)', 'Sometimes true (3)', 'Often true (4)', 'Very often
↳or always true (5)'])
plt.title('"I think some of my emotions are bad or inappropriate and I
↳shouldn't feel them."',
          size=10,fontweight='bold')
plt.xlabel('scale',size=9,fontweight='bold')
plt.ylabel('answer count',size=9,fontweight='bold')
plt.yticks([0,50,100,150,200,250,300])
plt.tick_params(axis='both', which='major', labels=8.3)
```

```
plt.savefig('/home/wobbalinux/Desktop/Potential Projects/Kentucky Inventory of_
↳Mindfulness Skills Responses/All Item Visuals/Ob32',bbox_inches='tight')
```



[87]: *# OBSERVE SUBSCALE - Question 33*

```
plt.figure(figsize=(9,1.6),dpi=350)
sns.set(style='darkgrid')
sns.countplot(x='Q33',data=questions,palette='CMRmap',order=['Never or very_
↳rarely true (1)',
                    'Rarely true (2)','Sometimes true (3)','Often true (4)','Very often_
↳or always true (5)'])
plt.title('"I notice visual elements in art or nature, such as colors, shapes,_
↳textures, \n or patterns of light and shadow."',
          size=10,fontweight='bold')
plt.xlabel('scale',size=9,fontweight='bold')
plt.ylabel('answer count',size=9,fontweight='bold')
plt.yticks([0,50,100,150,200,250,300])
plt.tick_params(axis='both', which='major', labelsize=8.3)
plt.savefig('/home/wobbalinux/Desktop/Potential Projects/Kentucky Inventory of_
↳Mindfulness Skills Responses/All Item Visuals/Ob33',bbox_inches='tight')
```



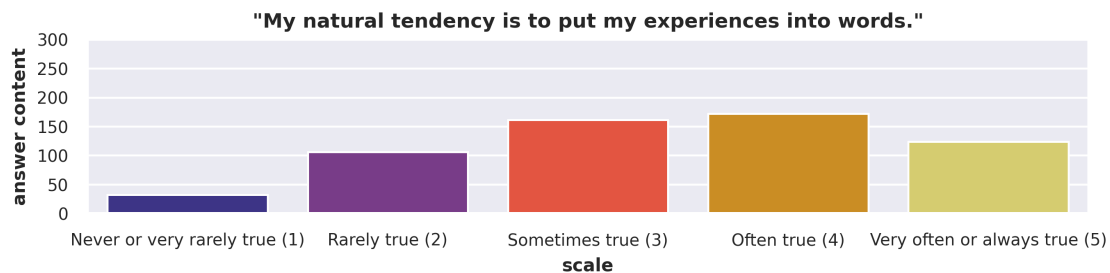
[73]: *# DESCRIBE SUBSCALE - Question 34*

```
plt.figure(figsize=(9,1.6),dpi=350)
```

```

sns.set(style='darkgrid')
sns.countplot(x='Q34',data=questions,palette='CMRmap',order=['Never or very
↳rarely true (1)',
                    'Rarely true (2)', 'Sometimes true (3)', 'Often true (4)', 'Very often
↳or always true (5)'])
plt.title('"My natural tendency is to put my experiences into words."',
          size=10,fontweight='bold')
plt.xlabel('scale',size=9,fontweight='bold')
plt.ylabel('answer count',size=9,fontweight='bold')
plt.yticks([0,50,100,150,200,250,300])
plt.tick_params(axis='both', which='major', labelsize=8.3)
plt.savefig('/home/wobbalinux/Desktop/Potential Projects/Kentucky Inventory of
↳Mindfulness Skills Responses/All Item Visuals/Ob34',bbox_inches='tight')

```

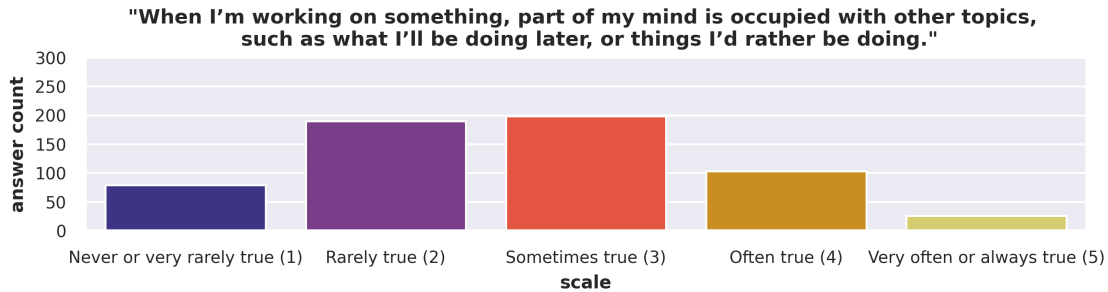


[79]: # ACT WITH AWARENESS SUBSCALE - Question 35

```

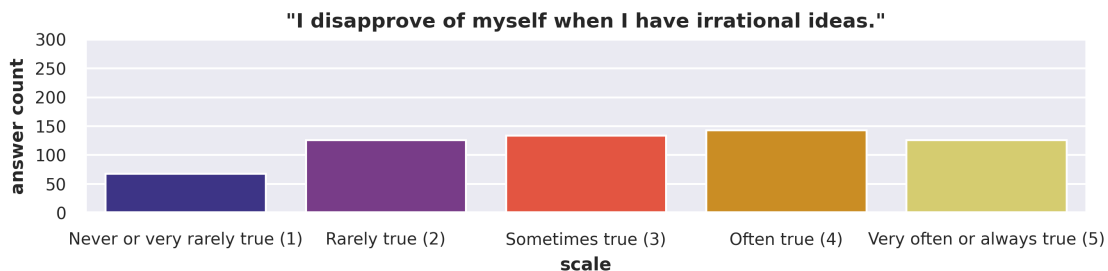
plt.figure(figsize=(9,1.6),dpi=350)
sns.set(style='darkgrid')
sns.countplot(x='Q35',data=questions,palette='CMRmap',order=['Never or very
↳rarely true (1)',
                    'Rarely true (2)', 'Sometimes true (3)', 'Often true (4)', 'Very often
↳or always true (5)'])
plt.title('"When I'm working on something, part of my mind is occupied with
↳other topics, \n such as what I'll be doing later, or things I'd rather be
↳doing."',
          size=10,fontweight='bold')
plt.xlabel('scale',size=9,fontweight='bold')
plt.ylabel('answer count',size=9,fontweight='bold')
plt.yticks([0,50,100,150,200,250,300])
plt.tick_params(axis='both', which='major', labelsize=8.3)
plt.savefig('/home/wobbalinux/Desktop/Potential Projects/Kentucky Inventory of
↳Mindfulness Skills Responses/All Item Visuals/Ob35',bbox_inches='tight')

```



[80]: # ACCEPT WITHOUT JUDGMENT SUBSCALE - Question 36

```
plt.figure(figsize=(9,1.6),dpi=350)
sns.set(style='darkgrid')
sns.countplot(x='Q36',data=questions,palette='CMRmap',order=['Never or very
↳rarely true (1)',
                    'Rarely true (2)','Sometimes true (3)','Often true (4)','Very often
↳or always true (5)'])
plt.title('"I disapprove of myself when I have irrational ideas."',
          size=10,fontweight='bold')
plt.xlabel('scale',size=9,fontweight='bold')
plt.ylabel('answer count',size=9,fontweight='bold')
plt.yticks([0,50,100,150,200,250,300])
plt.tick_params(axis='both', which='major', labelsize=8.3)
plt.savefig('/home/wobbalinux/Desktop/Potential Projects/Kentucky Inventory of
↳Mindfulness Skills Responses/All Item Visuals/Ob36',bbox_inches='tight')
```



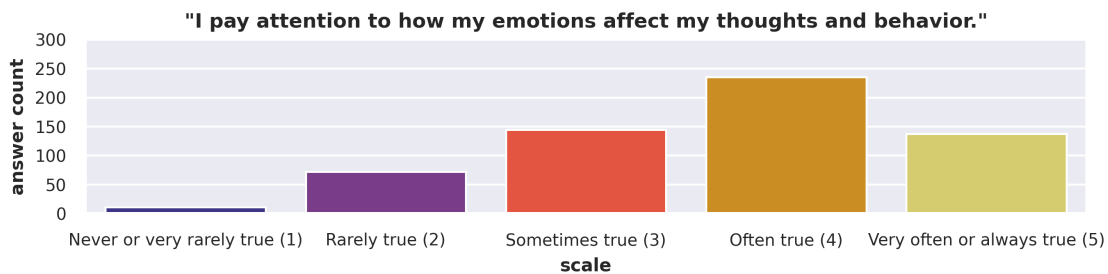
[84]: # OBSERVE SUBSCALE - Question 37

```
plt.figure(figsize=(9,1.6),dpi=350)
sns.set(style='darkgrid')
sns.countplot(x='Q37',data=questions,palette='CMRmap',order=['Never or very
↳rarely true (1)',
```

```

        'Rarely true (2)', 'Sometimes true (3)', 'Often true (4)', 'Very often or always true (5)'])
plt.title('"I pay attention to how my emotions affect my thoughts and behavior."',
        size=10, fontweight='bold')
plt.xlabel('scale', size=9, fontweight='bold')
plt.ylabel('answer count', size=9, fontweight='bold')
plt.yticks([0, 50, 100, 150, 200, 250, 300])
plt.tick_params(axis='both', which='major', labelsize=8.3)
plt.savefig('/home/wobbalinux/Desktop/Potential Projects/Kentucky Inventory of Mindfulness Skills Responses/All Item Visuals/Ob37', bbox_inches='tight')

```

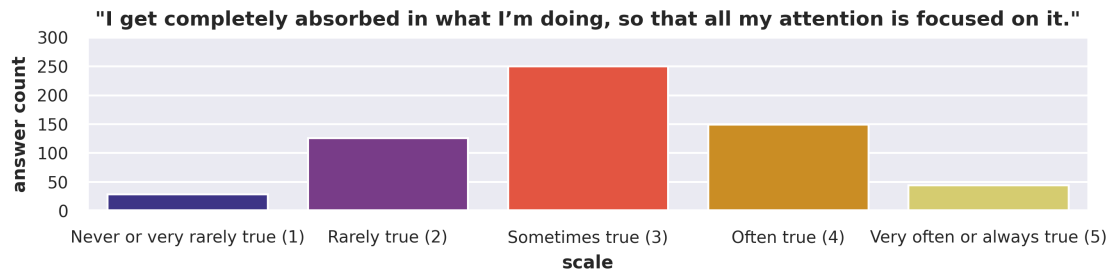


[85]: # ACT WITH AWARENESS SUBSCALE - Question 38

```

plt.figure(figsize=(9,1.6),dpi=350)
sns.set(style='darkgrid')
sns.countplot(x='Q38', data=questions, palette='CMRmap', order=['Never or very rarely true (1)',
        'Rarely true (2)', 'Sometimes true (3)', 'Often true (4)', 'Very often or always true (5)'])
plt.title('"I get completely absorbed in what I'm doing, so that all my attention is focused on it."',
        size=10, fontweight='bold')
plt.xlabel('scale', size=9, fontweight='bold')
plt.ylabel('answer count', size=9, fontweight='bold')
plt.yticks([0, 50, 100, 150, 200, 250, 300])
plt.tick_params(axis='both', which='major', labelsize=8.3)
plt.savefig('/home/wobbalinux/Desktop/Potential Projects/Kentucky Inventory of Mindfulness Skills Responses/All Item Visuals/Ob38', bbox_inches='tight')

```



```
[86]: # OBSERVE SUBSCALE - Question 39

plt.figure(figsize=(9,1.6),dpi=350)
sns.set(style='darkgrid')
sns.countplot(x='Q39',data=questions,palette='CMRmap',order=['Never or very
↳rarely true (1)',
                    'Rarely true (2)', 'Sometimes true (3)', 'Often true (4)', 'Very often
↳or always true (5)'])
plt.title('"I notice when my moods begin to change."',
          size=10,fontweight='bold')
plt.xlabel('scale',size=9,fontweight='bold')
plt.ylabel('answer count',size=9,fontweight='bold')
plt.yticks([0,50,100,150,200,250,300])
plt.tick_params(axis='both', which='major', labelsize=8.3)
plt.savefig('/home/wobbalinux/Desktop/Potential Projects/Kentucky Inventory of
↳Mindfulness Skills Responses/All Item Visuals/Ob39',bbox_inches='tight')
```

