

Name:

Date:

Horizontal Three-Colored Flags

This program creates the flag of Germany. It contains numerous similarities (similar but not identical parts). Identify and highlight what differs between them.



```
top_stripe = rectangle(300, 60, black)
center_stripe = rectangle(300, 60, red)
bottom_stripe = rectangle(300, 60, yellow)
flag = above(above(top_stripe, center_stripe), bottom_stripe)
```

Define a function that creates a stripe of a given color:

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|--------------|--------|
| | |

Use your function to create the three stripes:

```
top_stripe =
center_stripe =
bottom_stripe =
flag = above(above(top_stripe, center_stripe), bottom_stripe)
```

We can use our function also to create the flag of the Netherlands!



Use your function again to create the three stripes:



```
top_stripe =
center_stripe =
bottom_stripe =
flag = above(above(top_stripe, center_stripe), bottom_stripe)
```

Do you notice something? The code to create the two flags has many similarities, but three differences. Find them!

Define a function that creates any horizontal tricolor flag. The function will have to have a parameter for each difference you found.

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Now **use** your function to create flags of any colors.
First of all, we can use it very briefly to create the flags of Germany and the Netherlands (which we had already created):

```
german_flag =  
  
netherlands_flag =
```

But now that it's so easy, we can create several others as well, just by changing the colors! Try Russia and Estonia, for example!



```
russian_flag =  
  
estonian_flag =
```