```
import turtle
import random
import time


screen = turtle.Screen()
screen.title("Visual Coin Flipper")
screen.bgcolor("white")
screen.setup(width=600, height=600)


coin = turtle.Turtle()
coin.shape("circle")
coin.color("pink")
coin.penup()
coin.speed(0)


text = turtle.Turtle()
text.hideturtle()
text.penup()
text.color("black")


instruction = turtle.Turtle()
instruction.hideturtle()
instruction.penup()
instruction.goto(0, 200)


outcomes = ["Heads", "Tails"]
colors = {"Heads": "pink", "Tails": "purple"}


def flip_animation():
    for _ in range(15):
        coin.color(random.choice(["pink", "purple"]))
        coin.tilt(random.randint(0, 360))
        coin.sety(coin.ycor() + 10)
        screen.update()
```

```
        time.sleep(0.05)
        coin.sety(coin.ycor() - 10)
        screen.update()
        time.sleep(0.05)


def flip_coin():
    while True:
        player_choice = screen.textinput("Your Choice", "Pick Heads or
Tails:").capitalize()

        if player_choice not in outcomes:
            text.clear()
            text.goto(0, 0)
            text.write("Invalid choice! Please pick Heads or Tails.",
align="center", font=("Arial", 16, "bold"))
            time.sleep(1)
            text.clear()
            text.goto(0, 0)
            text.write("Heads or Tails?", align="center", font=("Arial",
16, "bold"))
            time.sleep(1)
            continue


        text.clear()



        flip_animation()



        result = random.choice(outcomes)



        coin.color(colors[result])
        text.goto(0, -50)
```

```
        if player_choice == result:
            text.write(f"You won! It was {result}.", align="center",
font=("Arial", 24, "bold"))
        else:
            text.write(f"You lost! It was {result}.", align="center",
font=("Arial", 24, "bold"))



        time.sleep(1)



        play_again = screen.textinput("Play Again?", "Do you want to play
again? (yes/no):").lower()
        if play_again == "yes":
            flip_coin()
        else:
            text.clear()
            text.goto(0, -50)
            text.write("Thanks for playing!", align="center",
font=("Arial", 24, "bold"))
            time.sleep(2)
            screen.bye()


instruction.write("Pink is Heads, Purple is Tails", align="center",
font=("Arial", 16, "bold"))
time.sleep(2)
instruction.clear()
flip_coin()


screen.mainloop()
```