

Figure 1

emacs25@vellachemla-X510UA

File Edit Options Buffers Tools Python Help

```

while (pastrouve):
    if ((k * k) > atester): return True
    else:
        if ((atester % k) == 0): return False
        else: k=k+1

fig = plt.figure()
ax = fig.gca()
ax.set_aspect('equal')

n = 1000
somme = 0.0
a = 1
b = 1000
for k in range(1,n+1):
    t = 1/((k**a)*exp(j*b*log(k)))
    somme = somme+t
    if True:
        c = 'r' if prime(k) else 'g'
        plt.plot(somme.real, somme.imag, color=c, marker='o', markersize=1)
        #ax.text(t.real, t.imag, str(k), color=c, fontsize=8, ha='right', alpha=0.8)
        if (k <=3):
            print(t.real)
            print(t.imag)
            print('')
        if (k != 1):
            ax.plot([xprec,somme.real],[yprec,somme.imag],'gray', alpha=0.5)
            xprec = somme.real
            yprec = somme.imag

xmin, xmax, ymin, ymax = ax.axis()
print(xmin, xmax, ymin, ymax)
#ax.set_xlim(-1, 1.5) ;

```

--- jeudi-toussaint-2020.py 23% L24 (Python)

Wrote /home/vella-chemla/Desktop/imaginaire/jeudi-toussaint-2020.py

Figure 1

emacs25@vellachemla-X510UA

File Edit Options Buffers Tools Python Help

```

while (pastrouve):
    if ((k * k) > atester): return True
    else:
        if ((atester % k) == 0): return False
        else: k=k+1

fig = plt.figure()
ax = fig.gca()
ax.set_aspect('equal')

n = 1000
somme = 0.0
a = 1
b = 2000
for k in range(1,n+1):
    t = 1/((k**a)*exp(j*b*log(k)))
    somme = somme+t
    if True:
        c = 'r' if prime(k) else 'g'
        plt.plot(somme.real, somme.imag, color=c, marker='o', markersize=1)
        #ax.text(t.real, t.imag, str(k), color=c, fontsize=8, ha='right', alpha=0.8)
        if (k <=3):
            print(t.real)
            print(t.imag)
            print('')
        if (k != 1):
            ax.plot([xprec,somme.real],[yprec,somme.imag],'gray', alpha=0.5)
            xprec = somme.real
            yprec = somme.imag

xmin, xmax, ymin, ymax = ax.axis()
print(xmin, xmax, ymin, ymax)
#ax.set_xlim(-1, 1.5) ;

```

---- jeudi-toussaint-2020.py 23% L24 (Python)

Wrote /home/vella-chemla/Desktop/imaginaire/jeudi-toussaint-2020.py

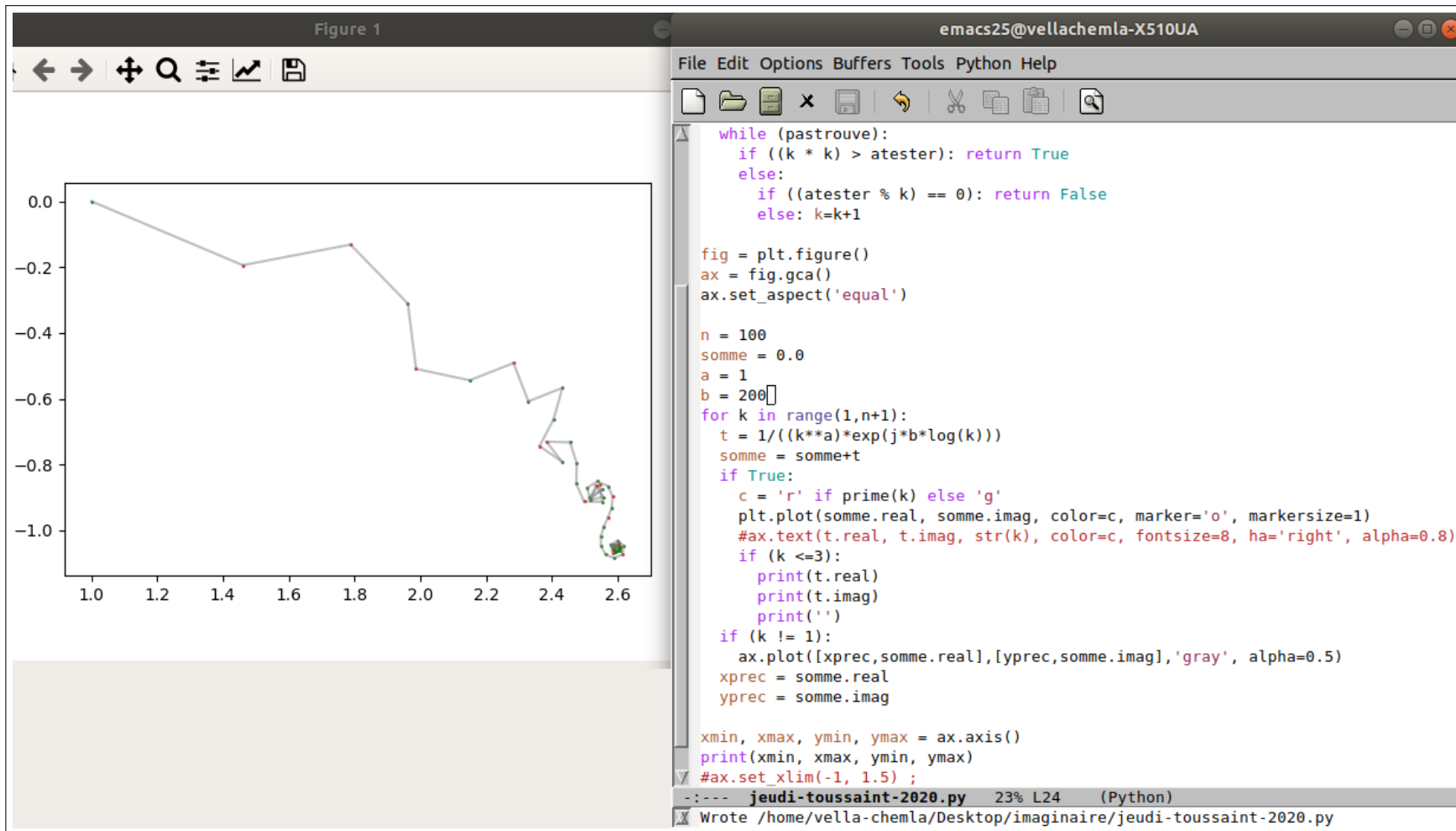


Figure 1

emacs25@vellachemla-X510UA

File Edit Options Buffers Tools Python Help

```

while (pastrouve):
    if ((k * k) > atester): return True
    else:
        if ((atester % k) == 0): return False
        else: k=k+1

fig = plt.figure()
ax = fig.gca()
ax.set_aspect('equal')

n = 10
somme = 0.0
a = 1
b = 20
for k in range(1,n+1):
    t = 1/((k**a)*exp(j*b*log(k)))
    somme = somme+t
    if True:
        c = 'r' if prime(k) else 'g'
        plt.plot(somme.real, somme.imag, color=c, marker='o', markersize=1)
        #ax.text(t.real, t.imag, str(k), color=c, fontsize=8, ha='right', alpha=0.8)
    if (k <=3):
        print(t.real)
        print(t.imag)
        print('')
    if (k != 1):
        ax.plot([xprec,somme.real],[yprec,somme.imag],'gray', alpha=0.5)
    xprec = somme.real
    yprec = somme.imag

xmin, xmax, ymin, ymax = ax.axis()
print(xmin, xmax, ymin, ymax)
#ax.set_xlim(-1, 1.5) ;

```

--- jeudi-toussaint-2020.py 23% L24 (Python)

Wrote /home/vella-chemla/Desktop/imaginaire/jeudi-toussaint-2020.py

```

emacs25@vellachemla-X510UA
File Edit Options Buffers Tools Python Help

while (pastrouve):
    if ((k * k) > atester): return True
    else:
        if ((atester % k) == 0): return False
        else: k=k+1

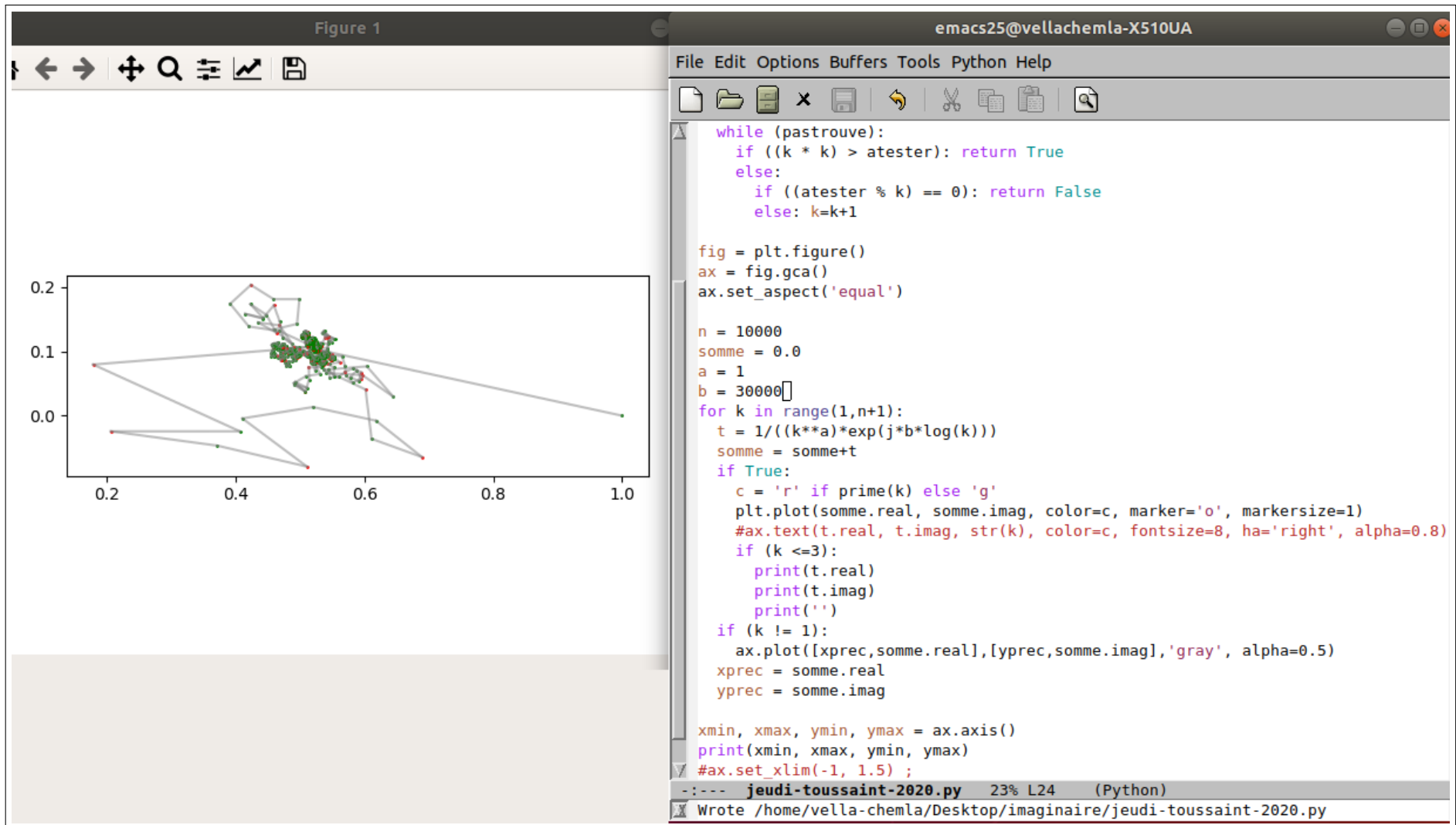
fig = plt.figure()
ax = fig.gca()
ax.set_aspect('equal')

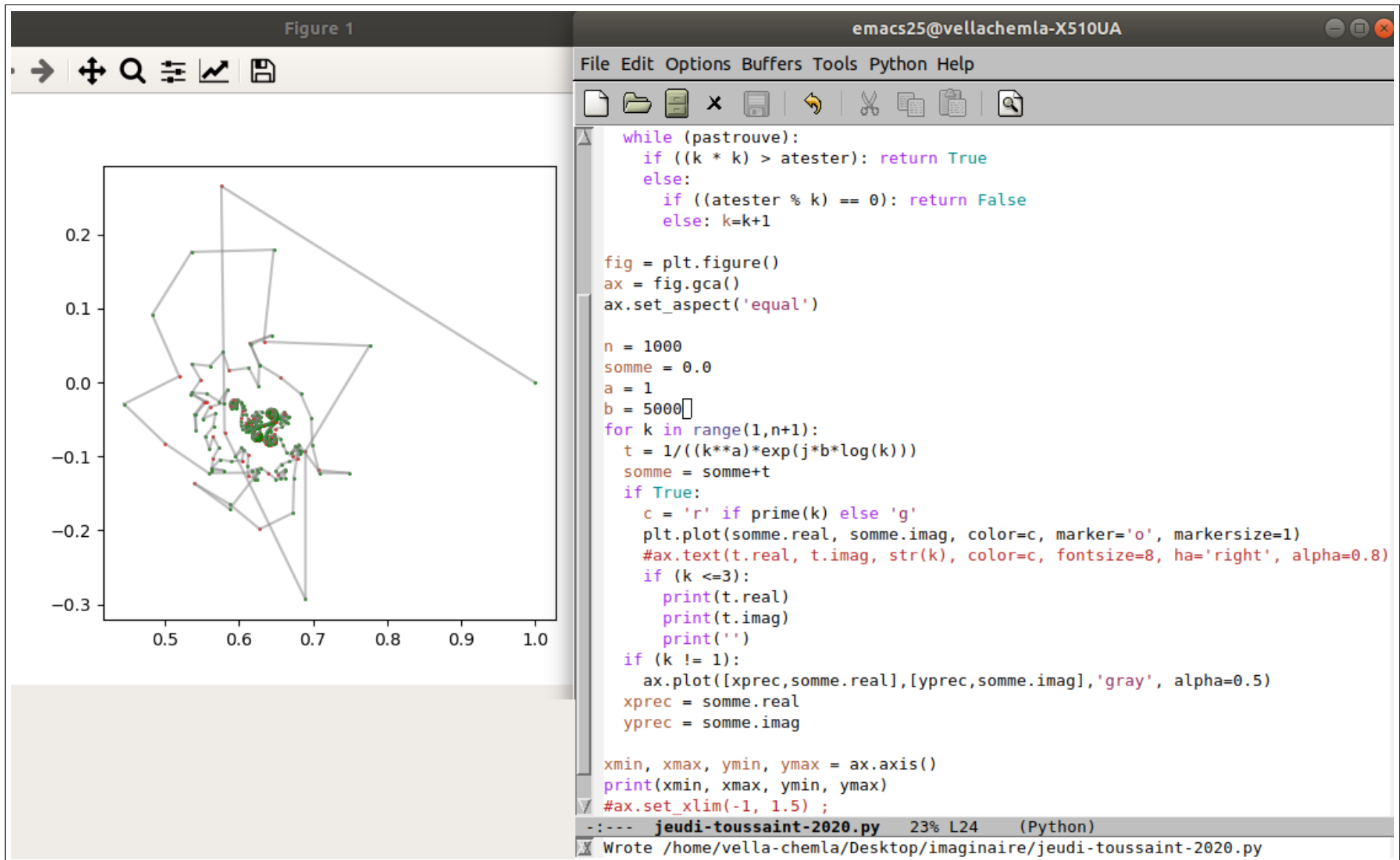
n = 10
somme = 0.0
a = 1
b = 30
for k in range(1,n+1):
    t = 1/((k**a)*exp(j*b*log(k)))
    somme = somme+t
    if True:
        c = 'r' if prime(k) else 'g'
        plt.plot(somme.real, somme.imag, color=c, marker='o', markersize=1)
        #ax.text(t.real, t.imag, str(k), color=c, fontsize=8, ha='right', alpha=0.8)
        if (k <=3):
            print(t.real)
            print(t.imag)
            print('')
        if (k != 1):
            ax.plot([xprec,somme.real],[yprec,somme.imag],'gray', alpha=0.5)
            xprec = somme.real
            yprec = somme.imag

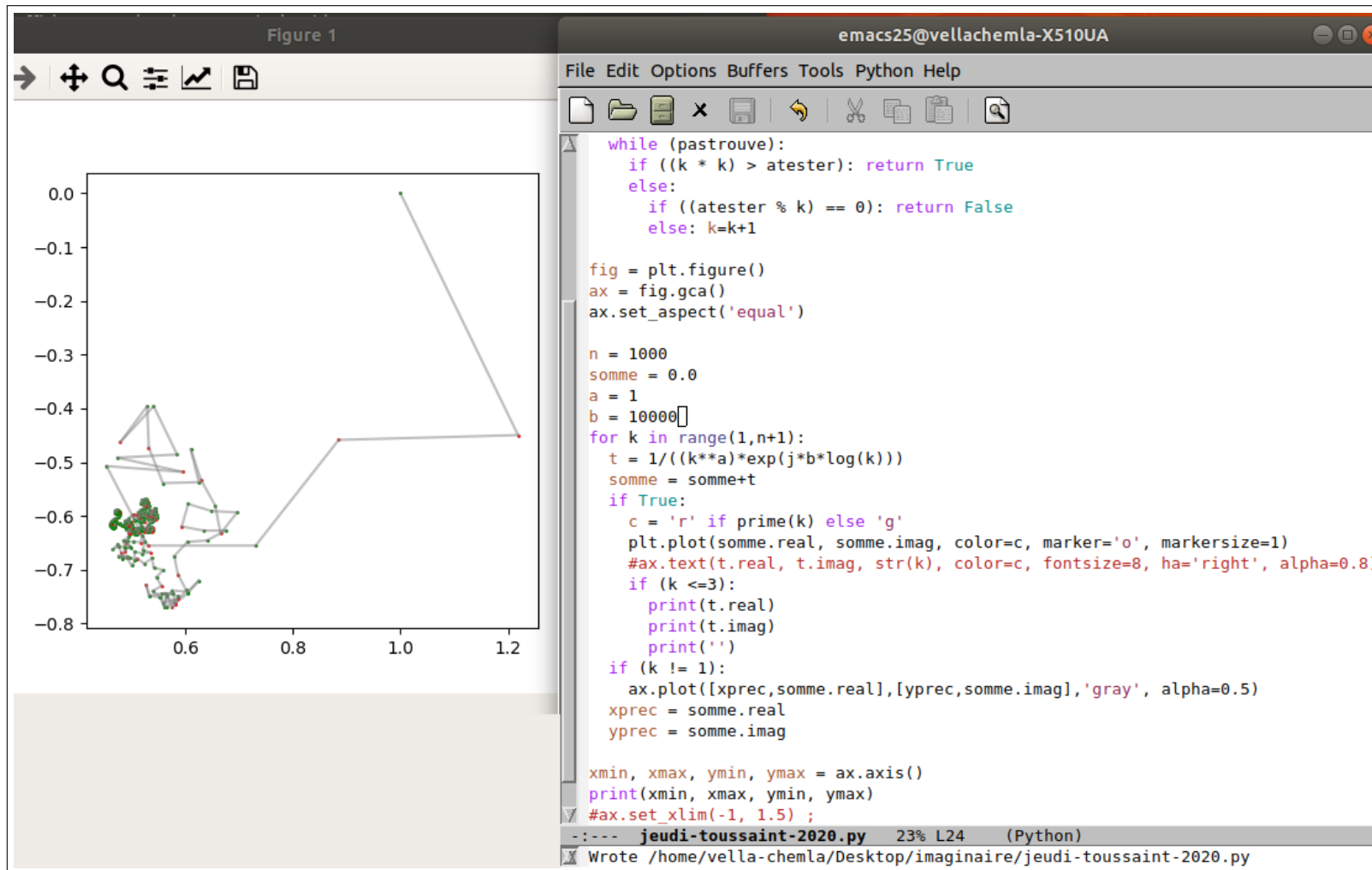
xmin, xmax, ymin, ymax = ax.axis()
print(xmin, xmax, ymin, ymax)
#ax.set_xlim(-1, 1.5) ;

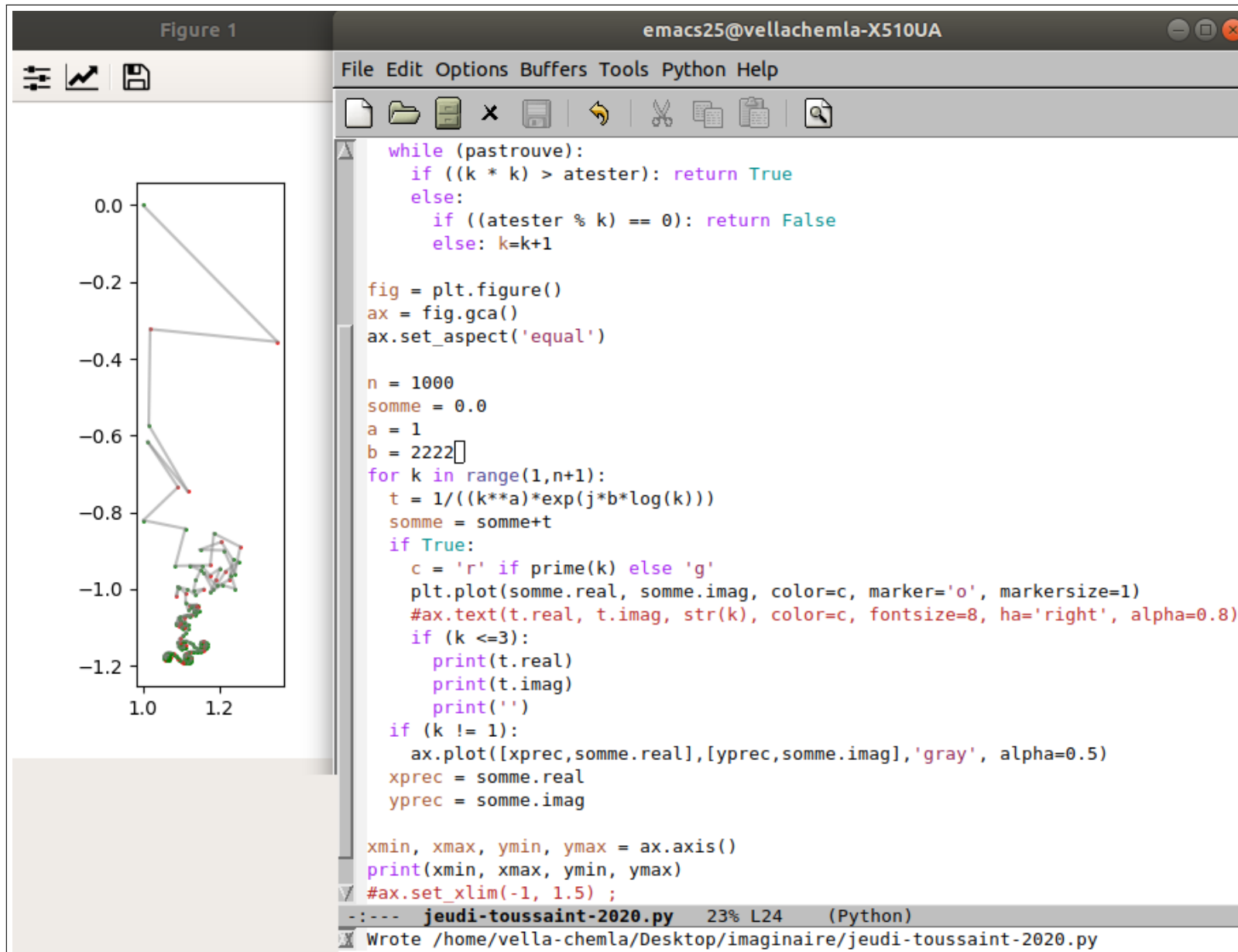
```

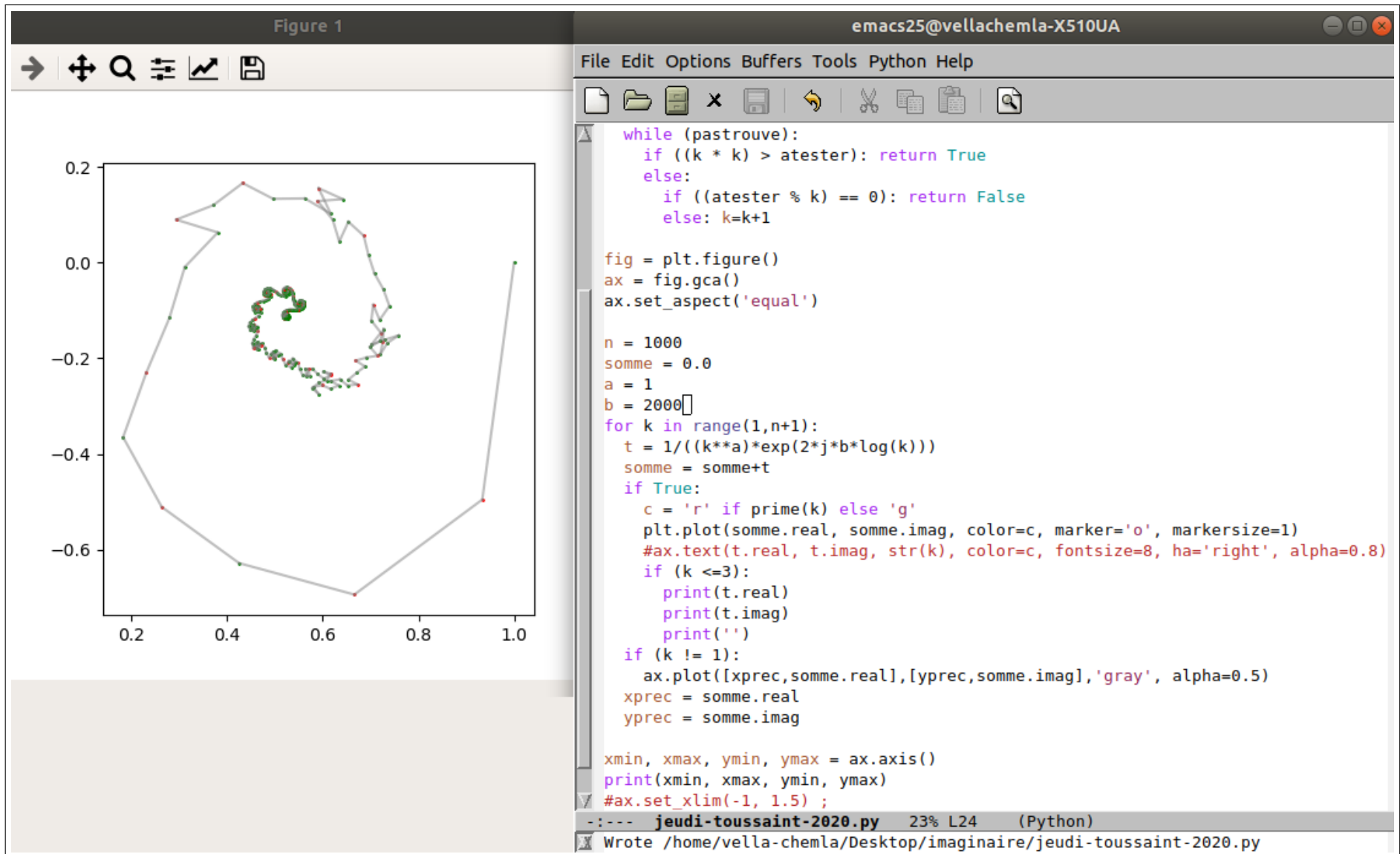
--- jeudi-toussaint-2020.py 23% L24 (Python)
Wrote /home/vella-chemla/Desktop/imaginaire/jeudi-toussaint-2020.py

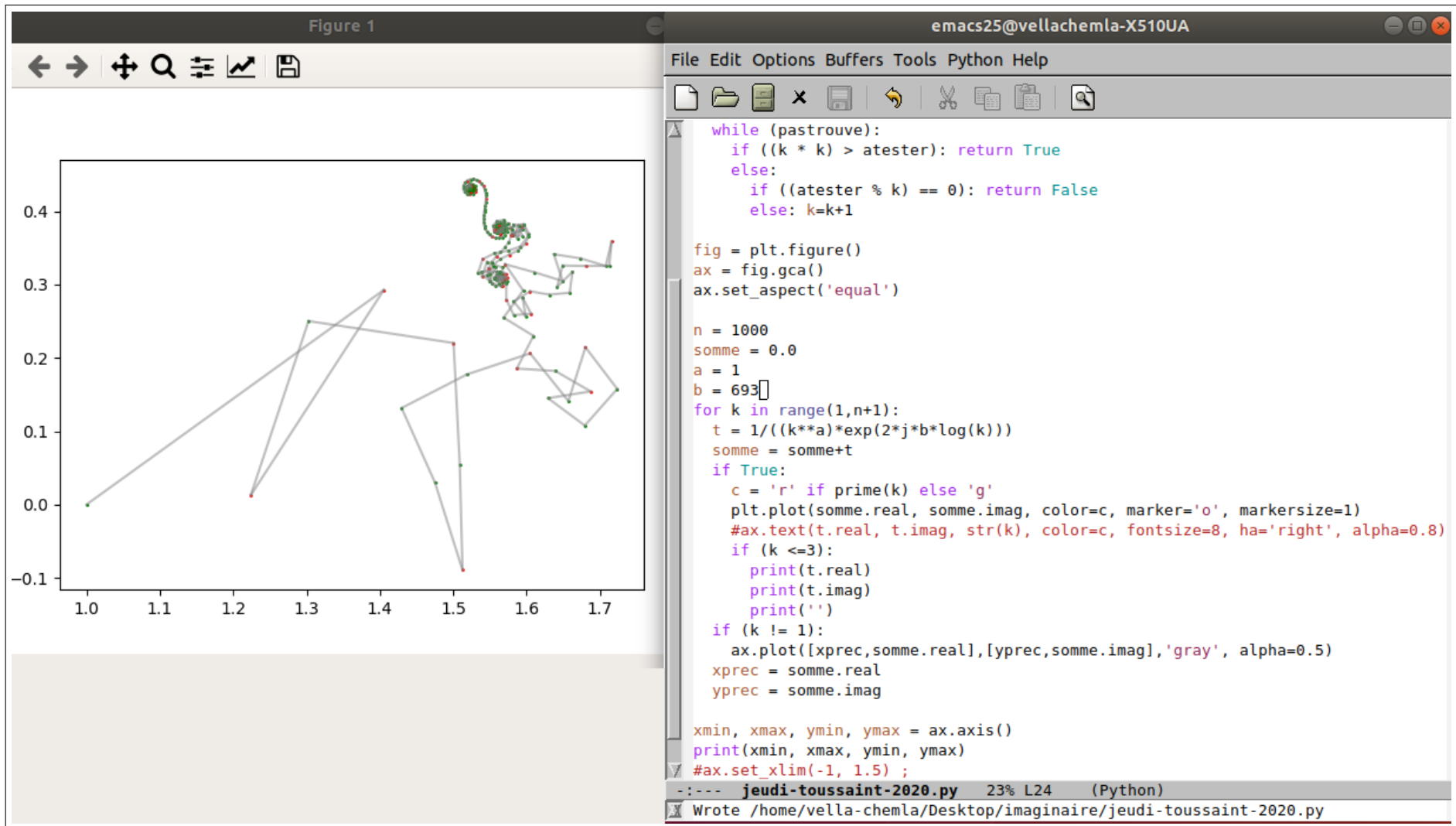


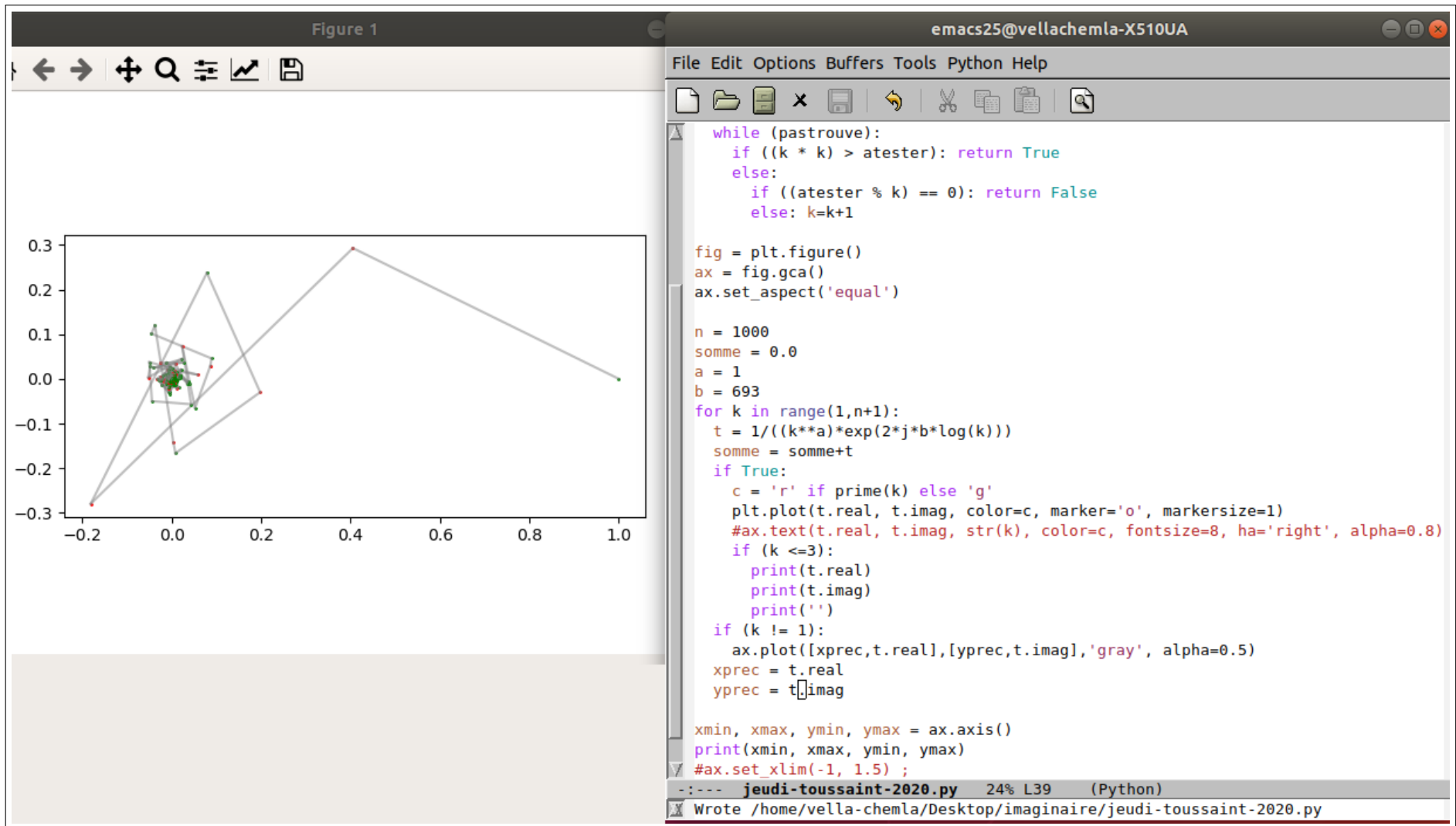


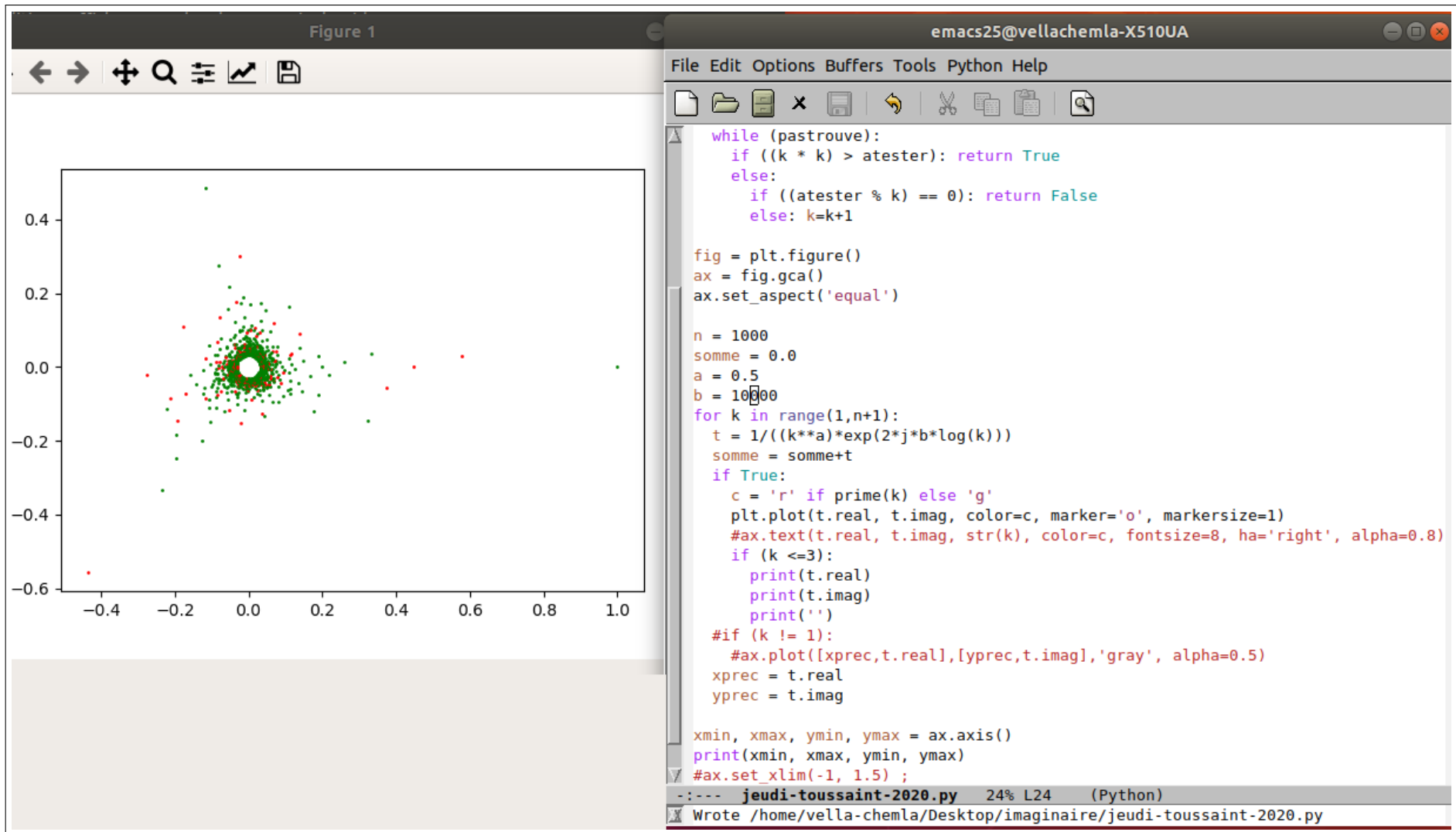












The image shows a screenshot of a computer screen with two windows. The window on the left, titled "Figure 1", displays a scatter plot of points in the complex plane. The x-axis ranges from -0.50 to 1.00, and the y-axis ranges from -0.4 to 0.2. The points are colored red and green, forming a dense cluster around the origin (0,0). The window on the right, titled "emacs25@vellachemla-X510UA", shows a Python script in Emacs. The script defines a function to check if a number is prime and then uses this function to generate a scatter plot. The plot parameters are: $n = 1000$, $somme = 0.0$, $a = 0.5$, and $b = 100000$. The points are plotted as $(t.real, t.imag)$ where $t = 1 / ((k^a) * \exp(2 * j * b * \log(k)))$. The points are colored red if k is prime and green otherwise. The script also includes a `print` statement for the first three points and a `plot` statement for the first three points in gray. The script is saved as "jeudi-toussaint-2020.py".

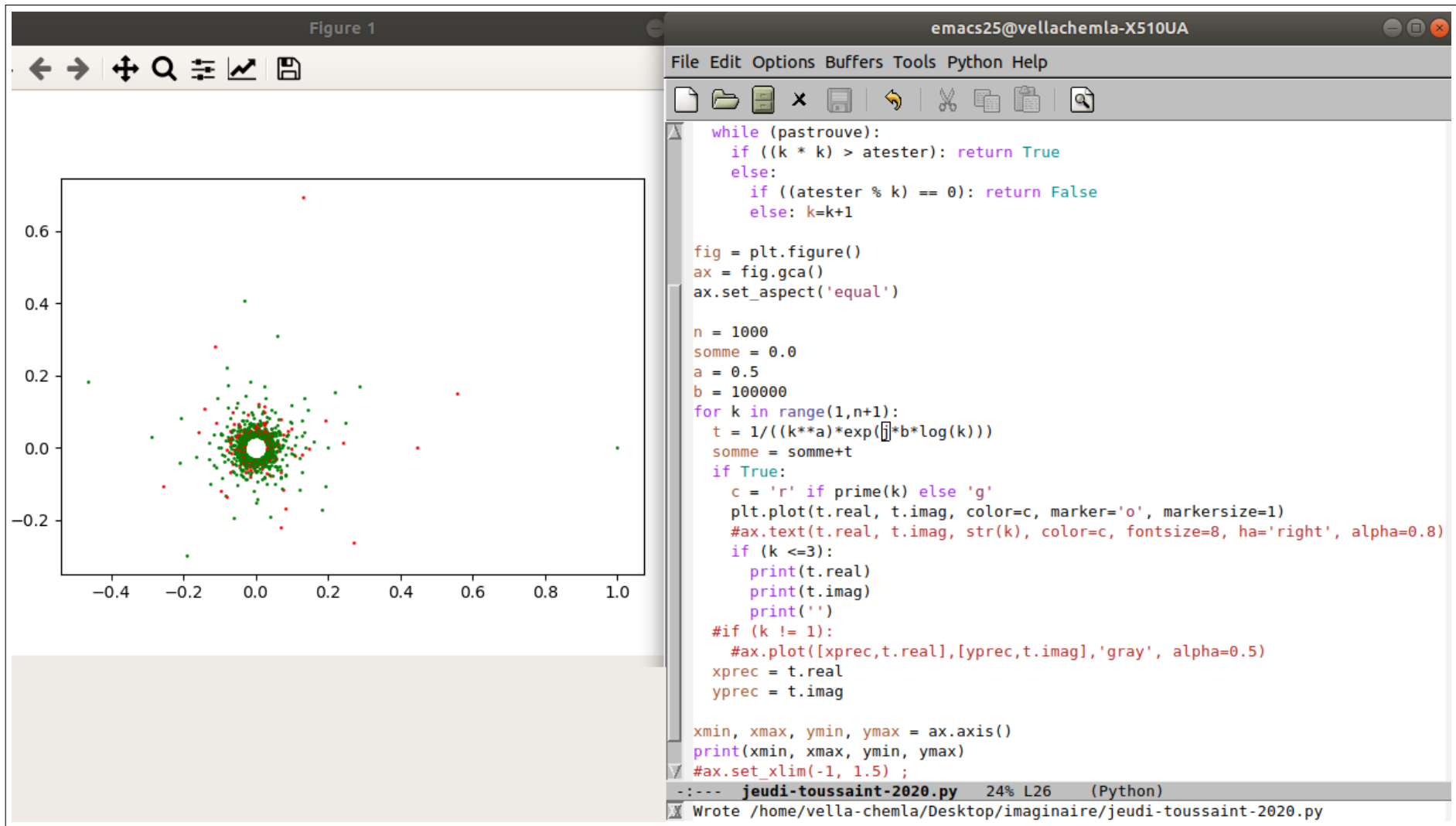
```
while (pastrouve):
    if ((k * k) > atester): return True
    else:
        if ((atester % k) == 0): return False
        else: k=k+1

fig = plt.figure()
ax = fig.gca()
ax.set_aspect('equal')

n = 1000
somme = 0.0
a = 0.5
b = 100000
for k in range(1,n+1):
    t = 1/((k**a)*exp(2*j*b*log(k)))
    somme = somme+t
    if True:
        c = 'r' if prime(k) else 'g'
        plt.plot(t.real, t.imag, color=c, marker='o', markersize=1)
        #ax.text(t.real, t.imag, str(k), color=c, fontsize=8, ha='right', alpha=0.8)
    if (k <=3):
        print(t.real)
        print(t.imag)
        print('')
    #if (k != 1):
        #ax.plot([xprec,t.real],[yprec,t.imag],'gray', alpha=0.5)
    xprec = t.real
    yprec = t.imag

xmin, xmax, ymin, ymax = ax.axis()
print(xmin, xmax, ymin, ymax)
#ax.set_xlim(-1, 1.5) ;
```

--- jeudi-toussaint-2020.py 24% L24 (Python)
Wrote /home/vella-chemla/Desktop/imaginaire/jeudi-toussaint-2020.py



The image shows a screenshot of a computer screen with two windows. On the left is a window titled "Figure 1" displaying a scatter plot. The plot has x and y axes ranging from -0.6 to 1.0. It contains a dense cluster of points around the origin (0,0), with points colored in red and green. Some points are also gray. On the right is an Emacs editor window titled "emacs25@vellachemla-X510UA" showing a Python script. The script defines a function `while (pastrouve):` that checks if `(k * k) > atester` and if `(atester % k) == 0`. It then generates a plot using `plt.figure()` and `ax = fig.gca()`. The plot parameters are `ax.set_aspect('equal')`. The script sets `n = 1000`, `somme = 0.0`, `a = 0.5`, and `b = 1419.42248094599568646598903807991664`. It loops over `k` from 1 to `n+1`, calculating `t = 1/((k**a)*exp(j*b*log(k)))` and updating `somme = somme+t`. It then plots `t` using `plt.plot(t.real, t.imag, color=c, marker='o', markersize=1)` where `c = 'r' if prime(k) else 'g'`. It also prints `t.real` and `t.imag` for `k <= 3` and plots a gray point for `k != 1`. The script ends with `ax.set_xlim(-1, 1.5)`.

```
while (pastrouve):
    if ((k * k) > atester): return True
    else:
        if ((atester % k) == 0): return False
        else: k=k+1

fig = plt.figure()
ax = fig.gca()
ax.set_aspect('equal')

n = 1000
somme = 0.0
a = 0.5
b = 1419.42248094599568646598903807991664
for k in range(1,n+1):
    t = 1/((k**a)*exp(j*b*log(k)))
    somme = somme+t
    if True:
        c = 'r' if prime(k) else 'g'
        plt.plot(t.real, t.imag, color=c, marker='o', markersize=1)
        #ax.text(t.real, t.imag, str(k), color=c, fontsize=8, ha='right', alpha=0.8)
        if (k <=3):
            print(t.real)
            print(t.imag)
            print('')
        #if (k != 1):
            #ax.plot([xprec,t.real],[yprec,t.imag],'gray', alpha=0.5)
        xprec = t.real
        yprec = t.imag

xmin, xmax, ymin, ymax = ax.axis()
print(xmin, xmax, ymin, ymax)
#ax.set_xlim(-1, 1.5) ;
```

jeudi-toussaint-2020.py 23% L24 (Python)
Wrote /home/vella-chemla/Desktop/imaginaire/jeudi-toussaint-2020.py

emacs25@vellachemla-X510UA

File Edit Options Buffers Tools Python Help

```

while (pastrouve):
    if ((k * k) > atester): return True
    else:
        if ((atester % k) == 0): return False
        else: k=k+1

fig = plt.figure()
ax = fig.gca()
ax.set_aspect('equal')

n = 1000
somme = 0.0
a = 0.5
b = 1419.42248094599568646598903807991664
for k in range(1,n+1):
    t = 1/((k**a)*exp(j*b*log(k)))
    somme = somme+t
    if True:
        c = 'r' if prime(k) else 'g'
        plt.plot(somme.real, somme.imag, color=c, marker='o', markersize=1)
        #ax.text(t.real, t.imag, str(k), color=c, fontsize=8, ha='right', alpha=0.8)
    if (k <=3):
        print(t.real)
        print(t.imag)
        print('')
    #if (k != 1):
        #ax.plot([xprec,t.real],[yprec,t.imag], 'gray', alpha=0.5)
    xprec = t.real
    yprec = t.imag

xmin, xmax, ymin, ymax = ax.axis()
print(xmin, xmax, ymin, ymax)
#ax.set_xlim(-1, 1.5) ;

```

-:--- jeudi-toussaint-2020.py 23% L30 (Python)

Wrote /home/vella-chemla/Desktop/imaginaire/jeudi-toussaint-2020.py