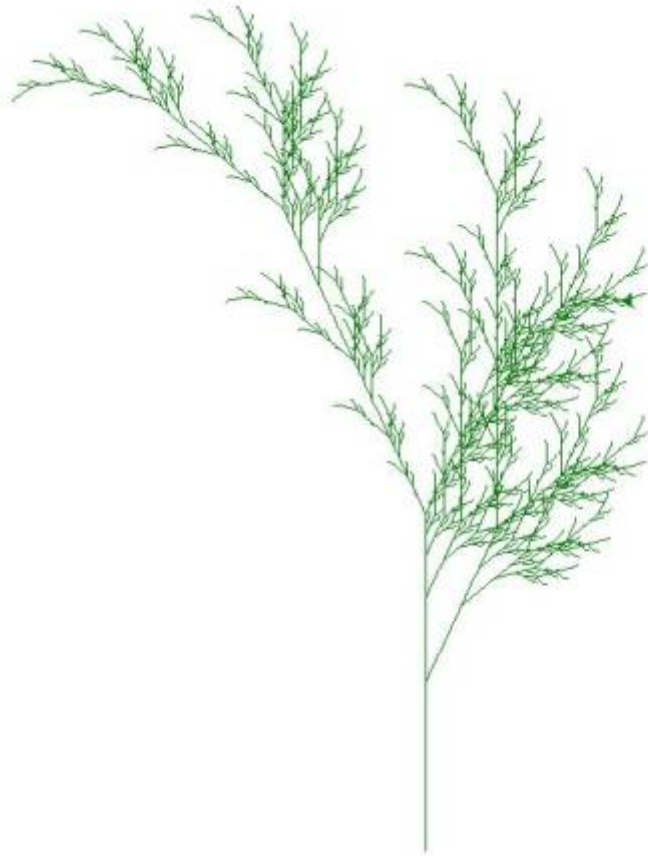


Fraktale w pythonie

[Wikipedia: L-systems](#)



```
from turtle import *

tracer(0)
start="X"
dlugosc=4
kat=25

stos=[]
slZam={'X': 'F+[[X]-X]-F[-FX]+X', 'F': 'FF'}

iteracje=6
zolw='zolv'

def LSBuduj(st,ile,sl):
    nowy=""
    for litera in st:
        if litera in st:
            if litera in sl.keys():
                nowy+=sl[litera]
            else:
```

```

        nowy+=litera

    if ile>1:
        ile-=1
        return LSBuduj(nowy,ile,sl)
    else:
        return nowy
DoWykonania=LSBuduj(start,iteracje,slZam)
Polecenia={}
Polecenia['F']=[zolw+'.pd()',zolw+'.fd('+str(dlugosc)+'')']
Polecenia['+']=[zolw+'.right('+str(kat)+'')']
Polecenia['-']=[zolw+'.left('+str(kat)+'')']
Polecenia['[']=[ 'stos.append(('+zolw+'.xcor(),' +zolw+'.ycor(),' +zolw+'.heading()'))']
Polecenia[']']=[zolw+'.pu()',zolw+'.setx(stos[len(stos)-1][0])',
                zolw+'.sety(stos[len(stos)-1][1])',
                zolw+'.setheading(stos[len(stos)-1][2])',
                'stos.pop()']

print(Polecenia)

zolw=Turtle()
zolw.pu()
zolw.goto(0,-300)
zolw.color('green')
zolw.pd()
zolw.setheading(90)
zolw.speed(0)
for litera in DoWykonania:
    if litera in Polecenia.keys():
        for rozkaz in Polecenia[litera]:
            eval(rozkaz)
update()

```

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