

**22-554**

**Nº1.**

**1.**

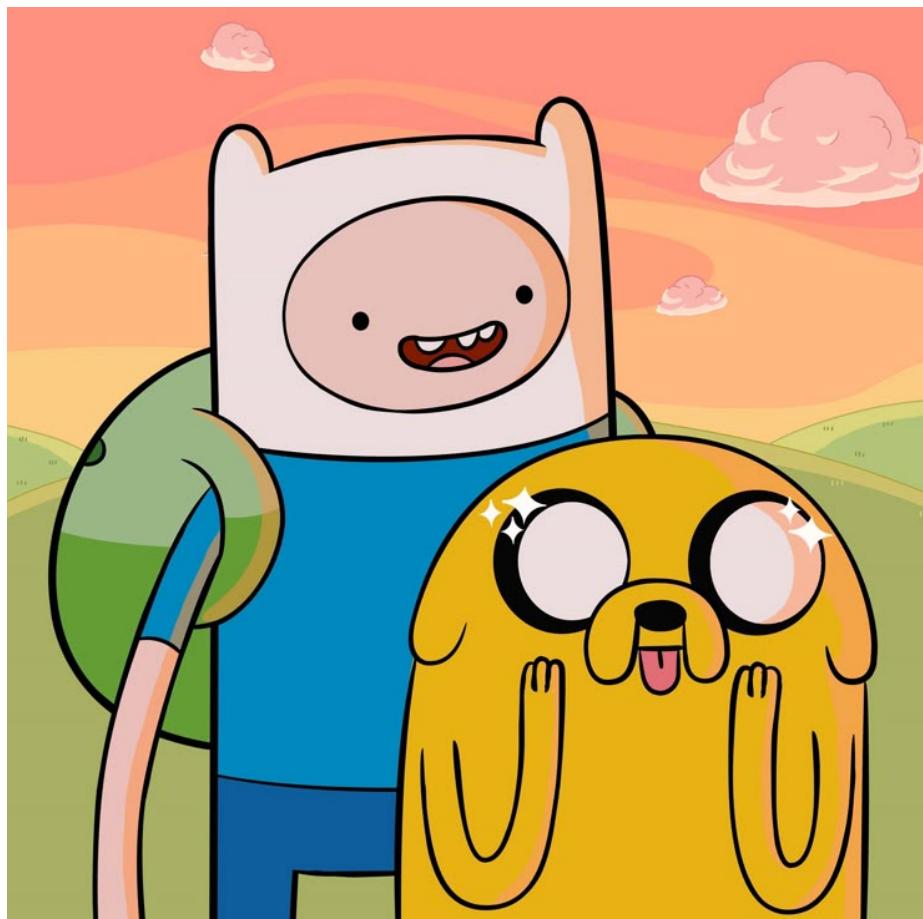
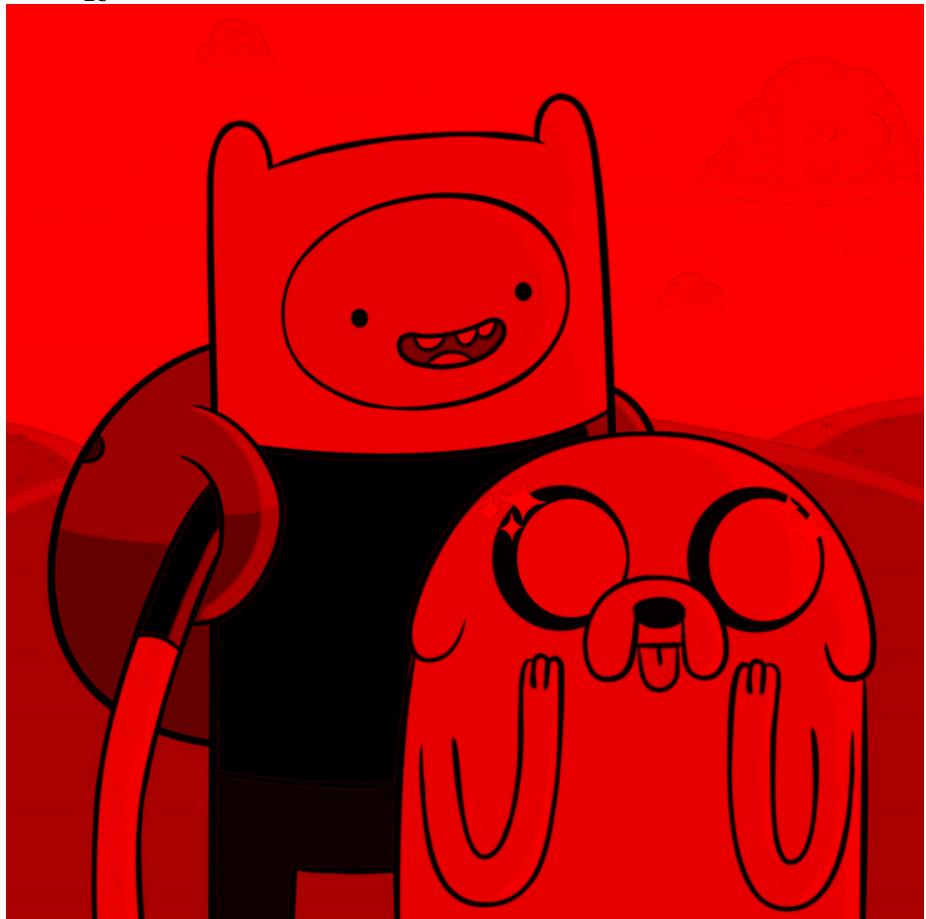


Figure 1:

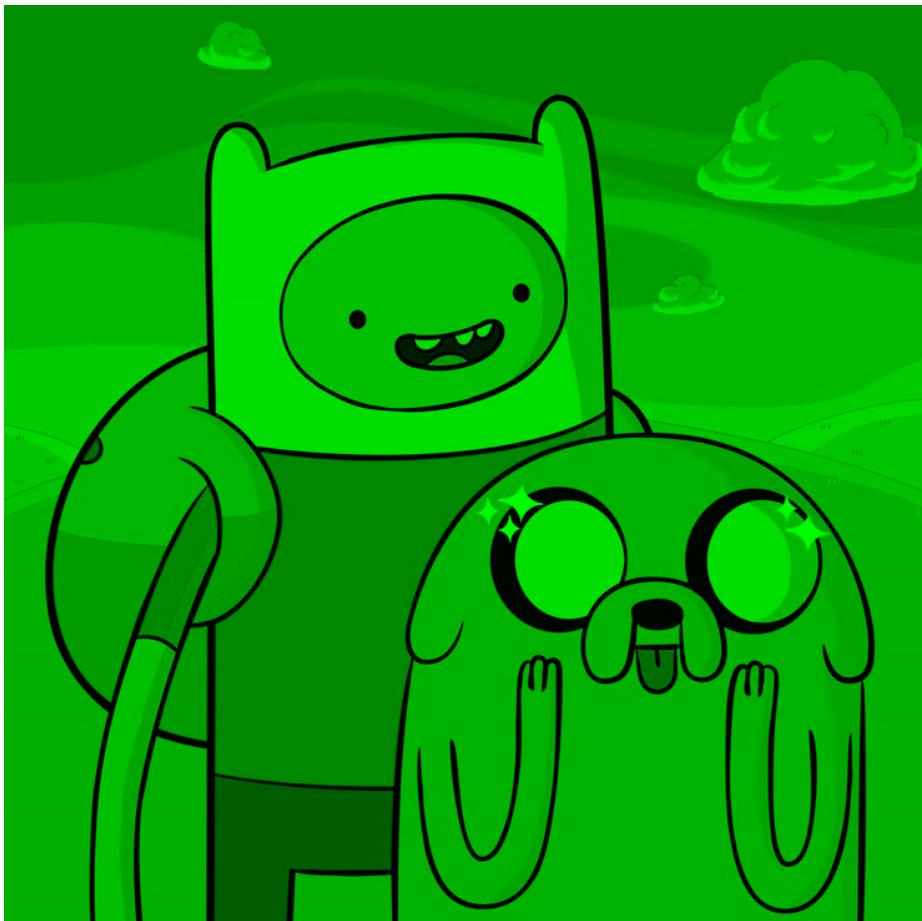
1.1.

R, G, B

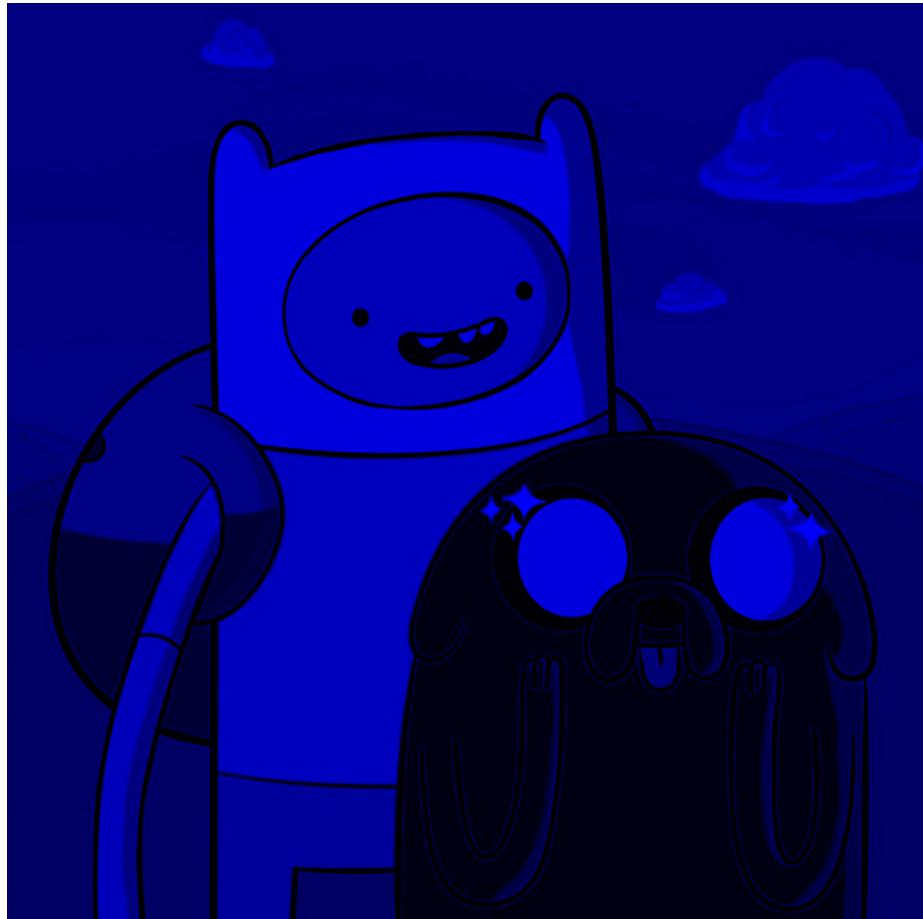
R



G



B



---

1.2.

HSI

---

1.3.

---

2.

2.1.      (        )           M

---

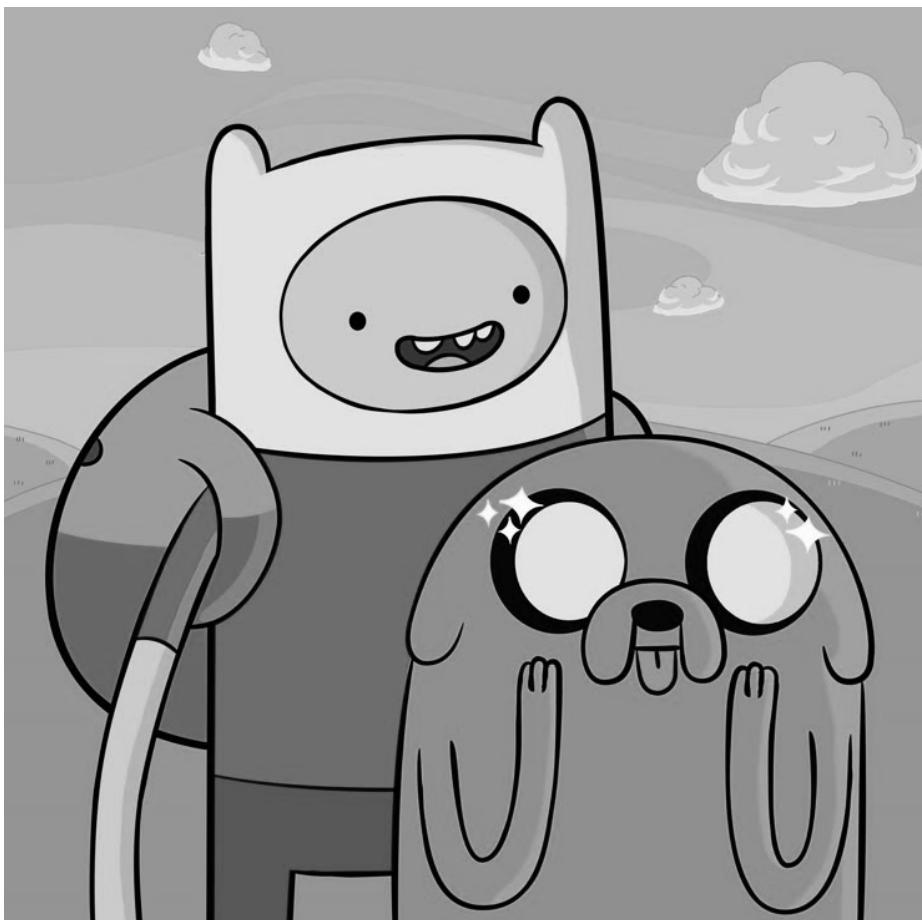


Figure 2: HSI



Figure 3:

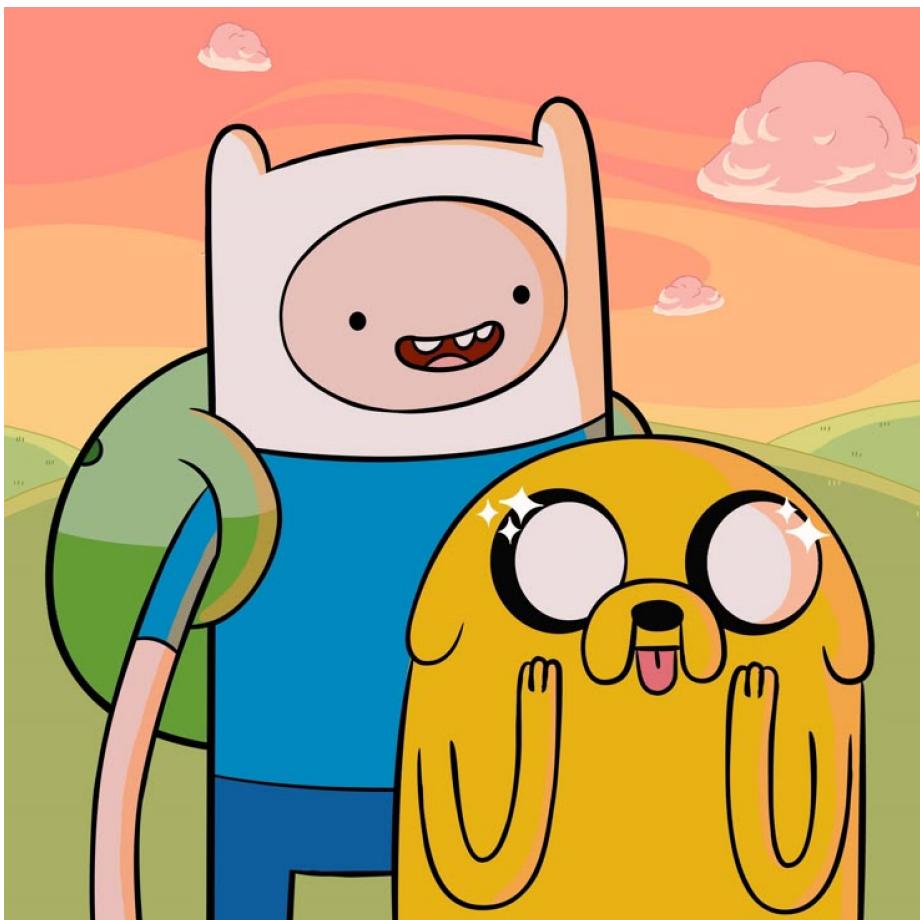


Figure 4:

**2.2.** ( ) N

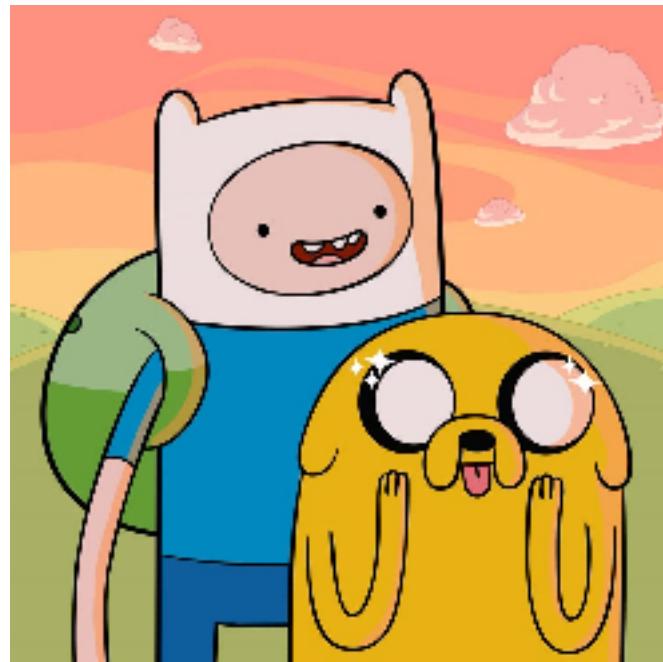


Figure 5:

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**2.3.** (K = M / N)

---

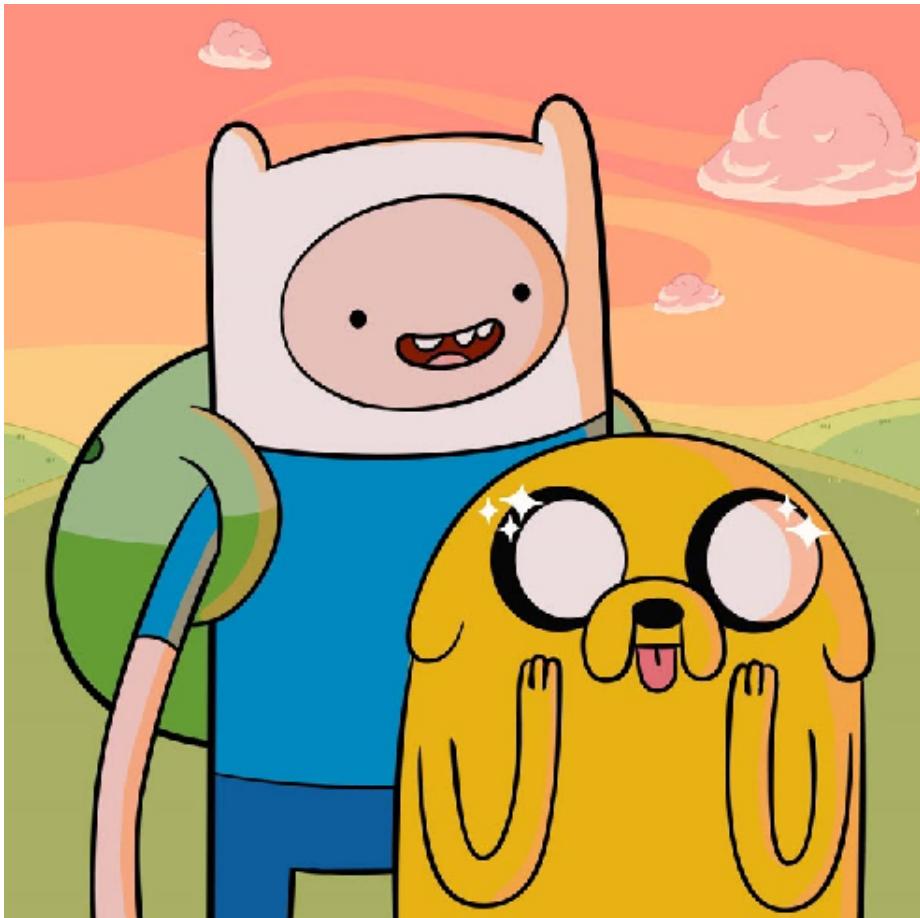


Figure 6: M/N



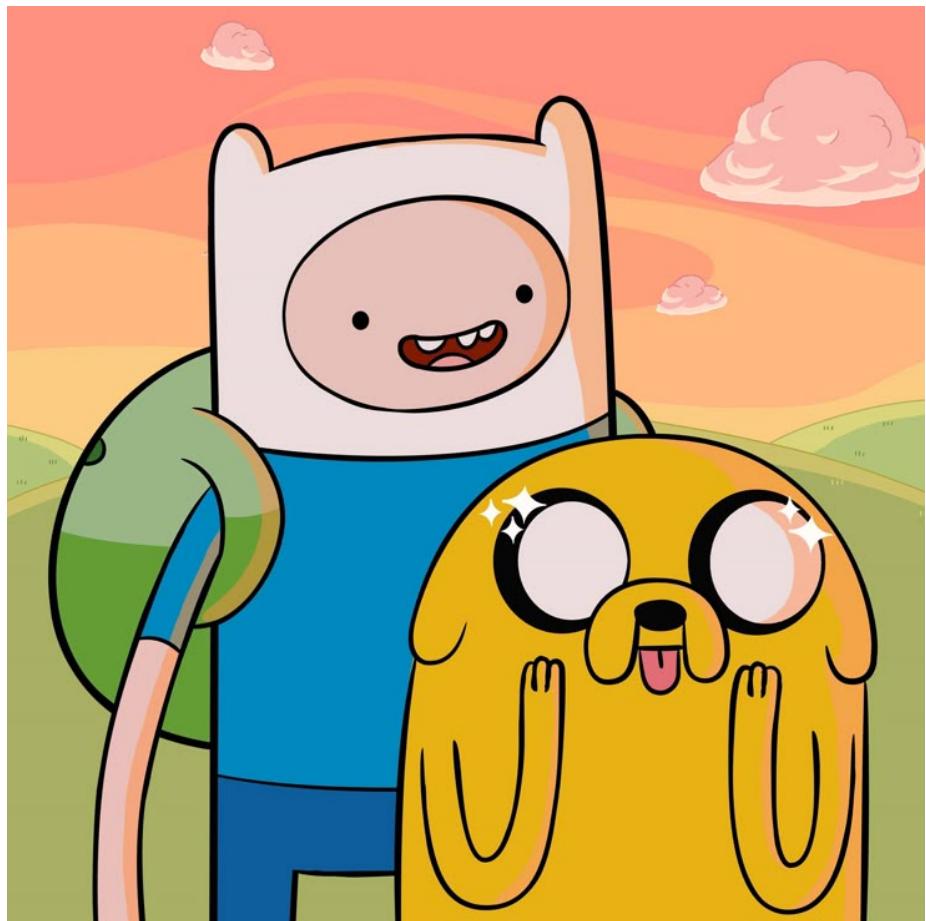
Figure 7: K

2.4.

(K)

Nº 2.

7 × 7



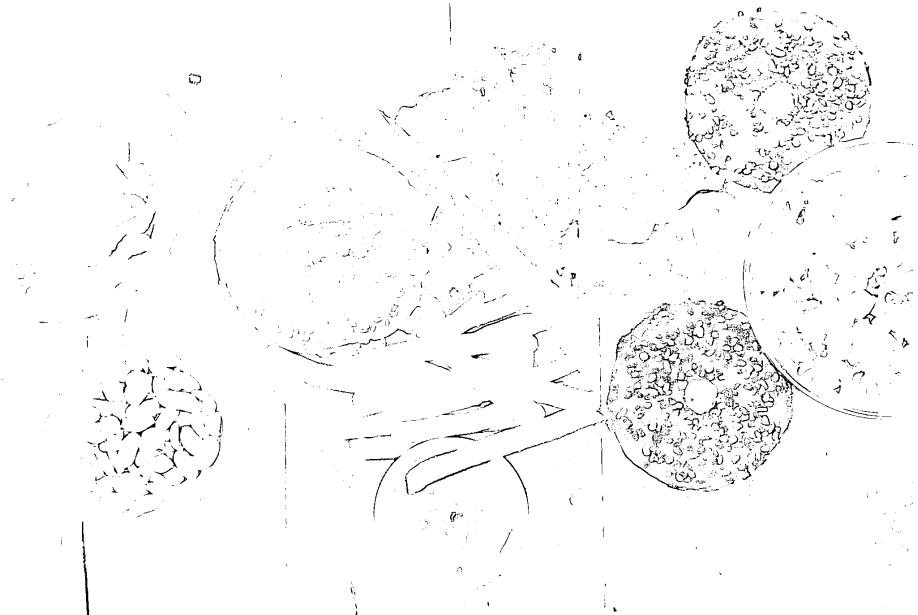
$\overline{\# \# \# \#}$   
2

# # # #

  
 $\overline{\# \# \# \#}$







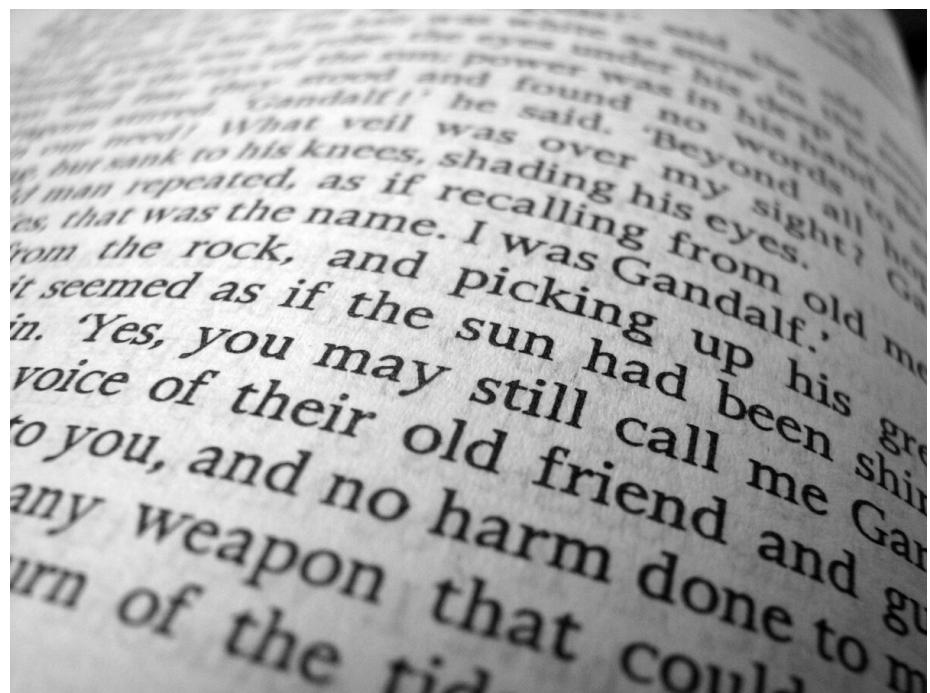
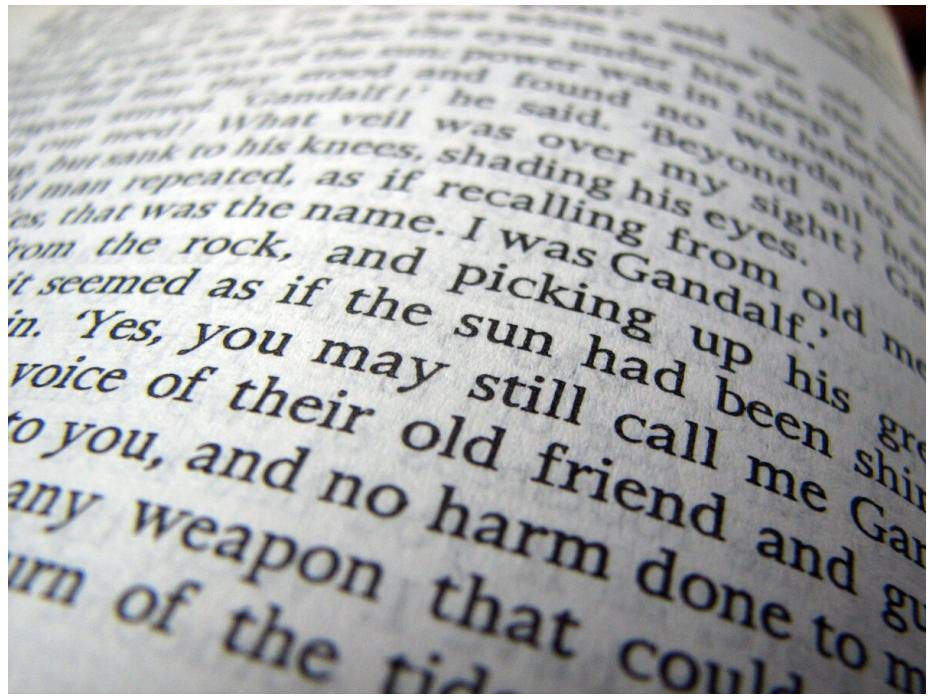
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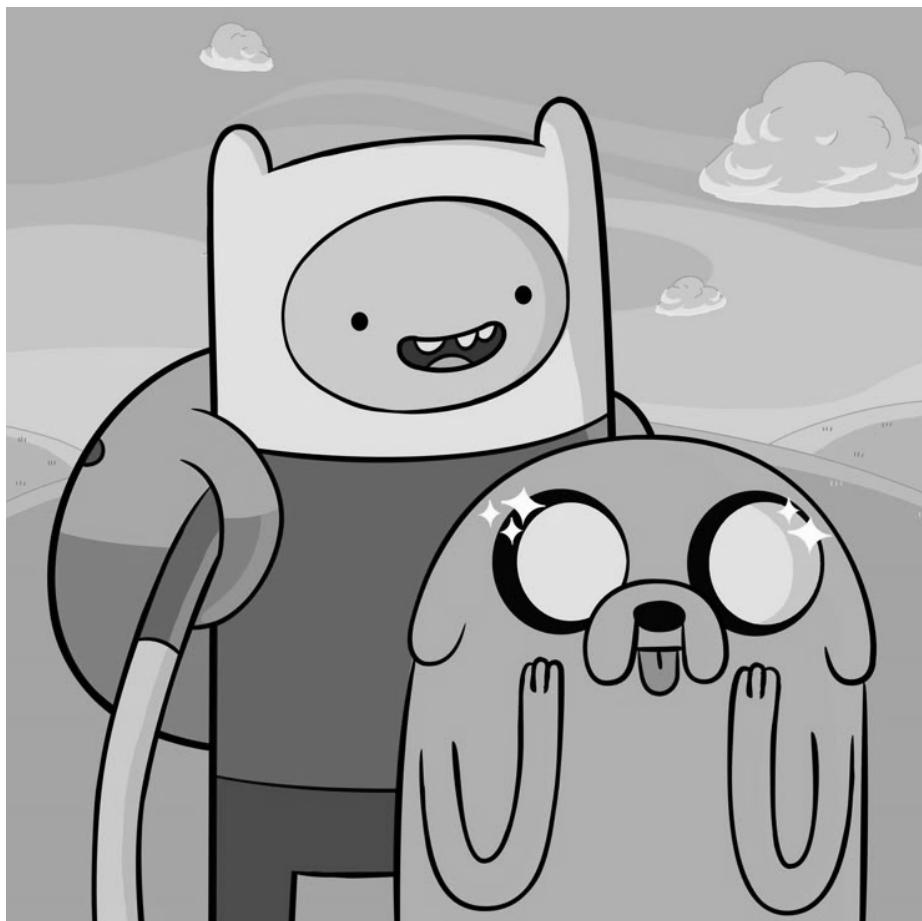
C



recalling his eyes  
and as it recalling from old  
memories the name. I was Gandalf,  
from the rock, and picking up his staff  
it seemed as if the sun had been shining  
in. Yes, you may still call me Gar-  
rion, voice of their old friend and  
to you, and no harm done to me.  
The warning that could

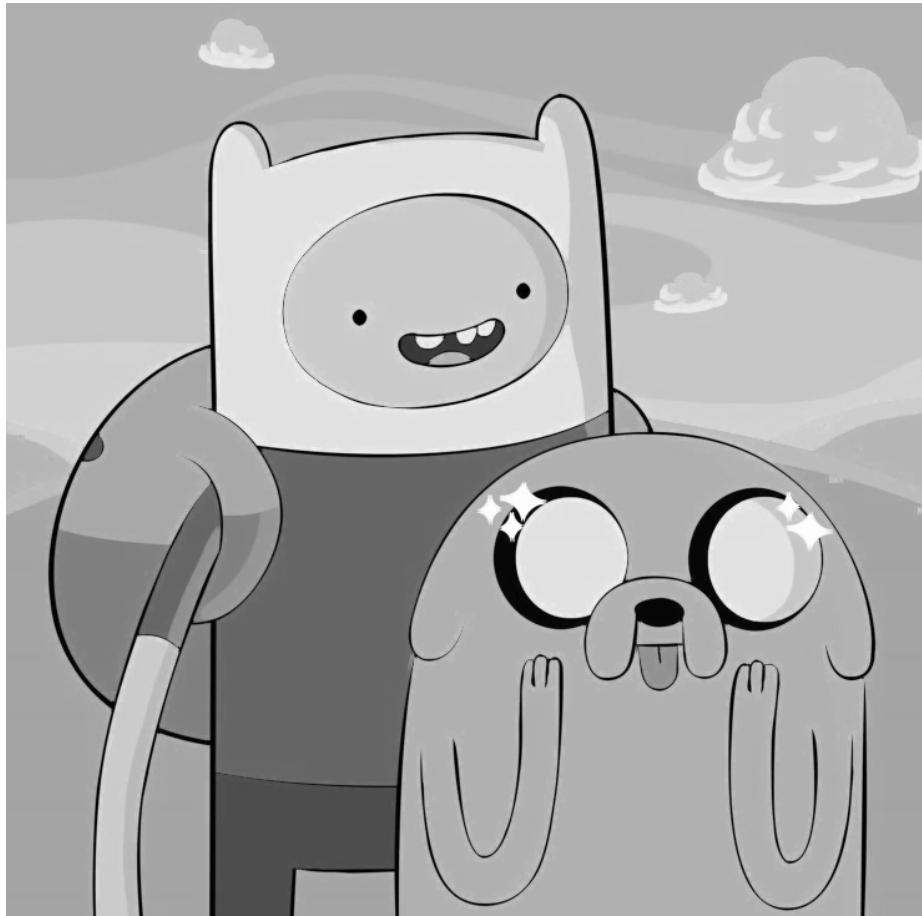
Nº3.

7/9. —



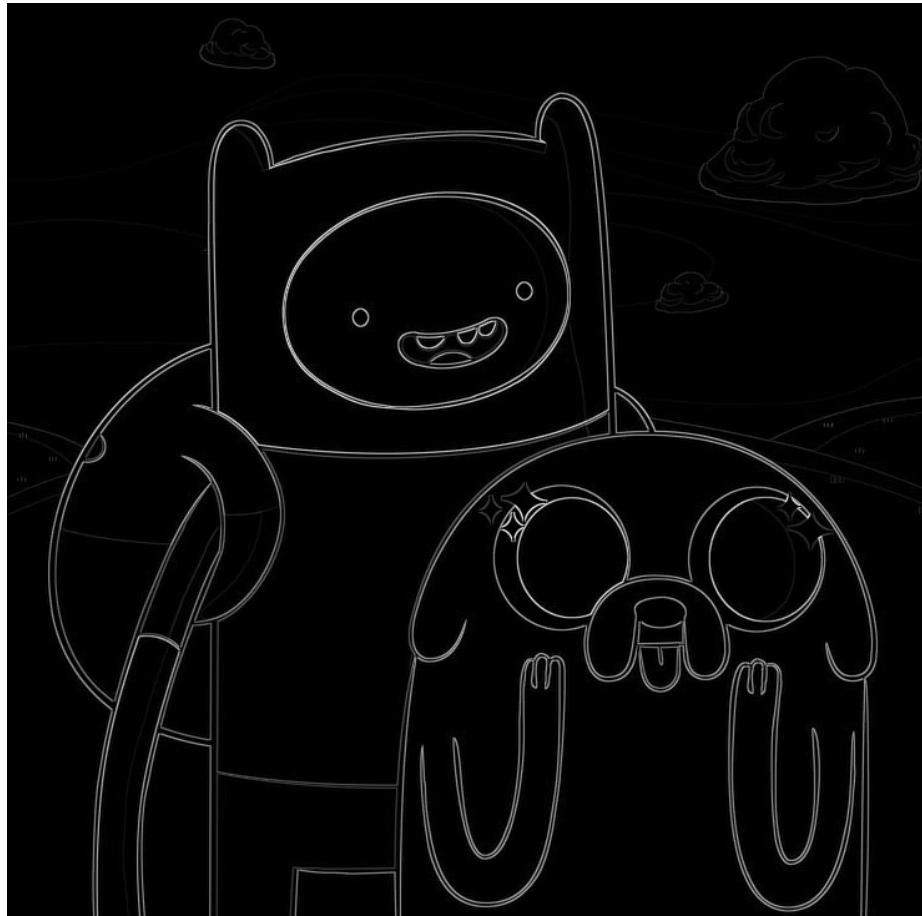
1.

(        )



2.

( xor )





1.

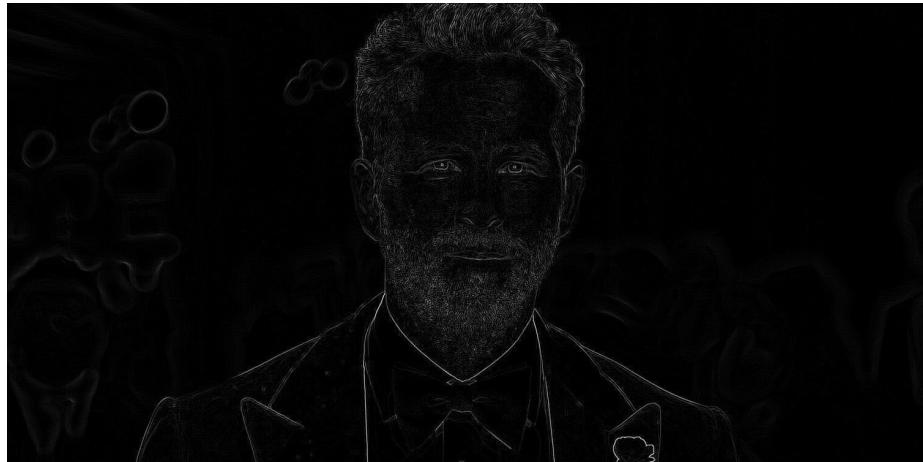
(        )



2.

( xor

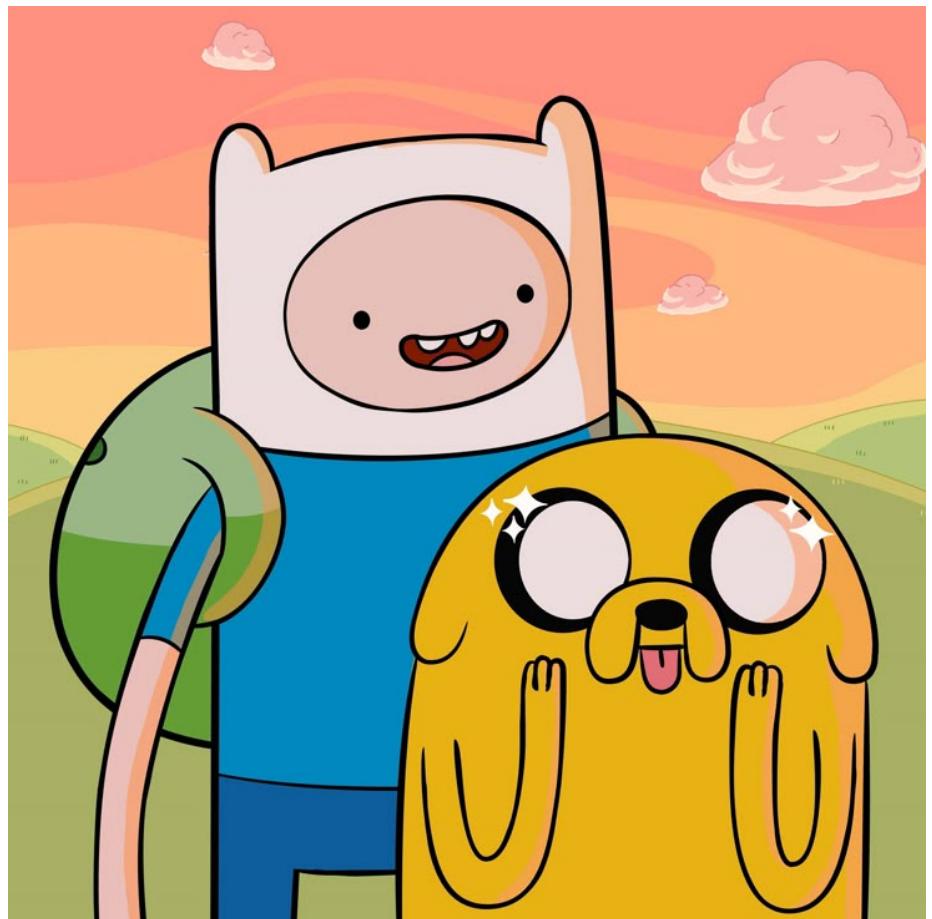
)



Nº4  
× 2  
1

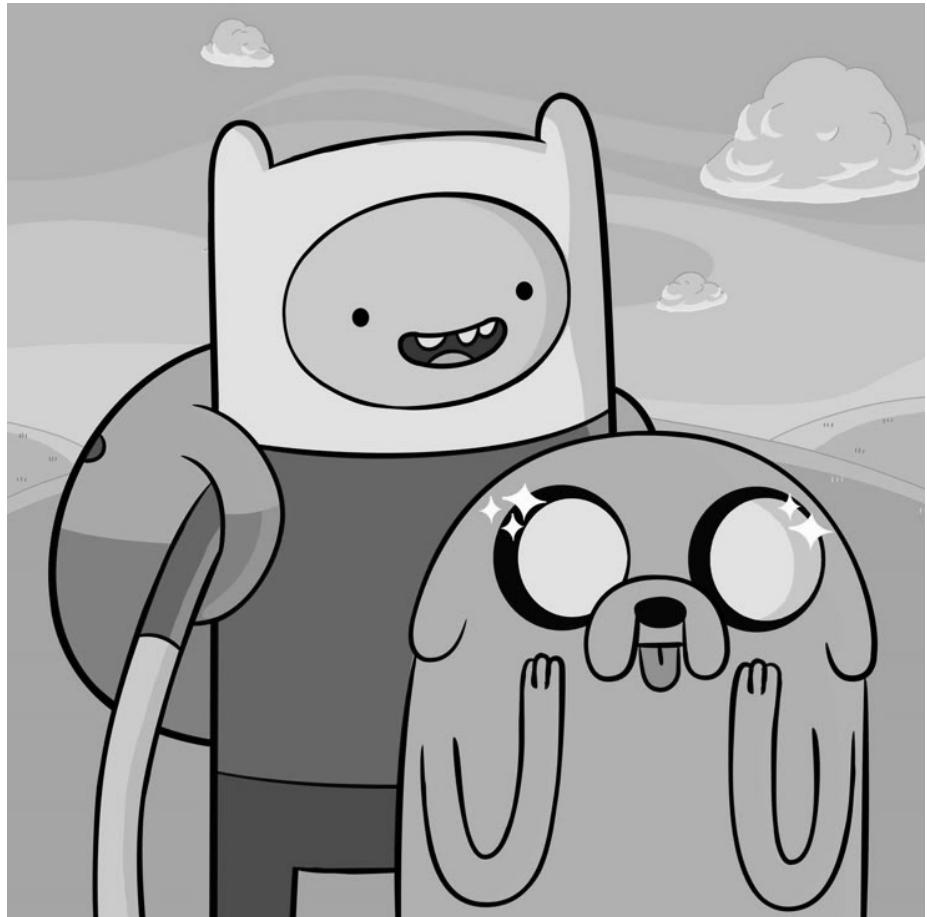
.

2



1.

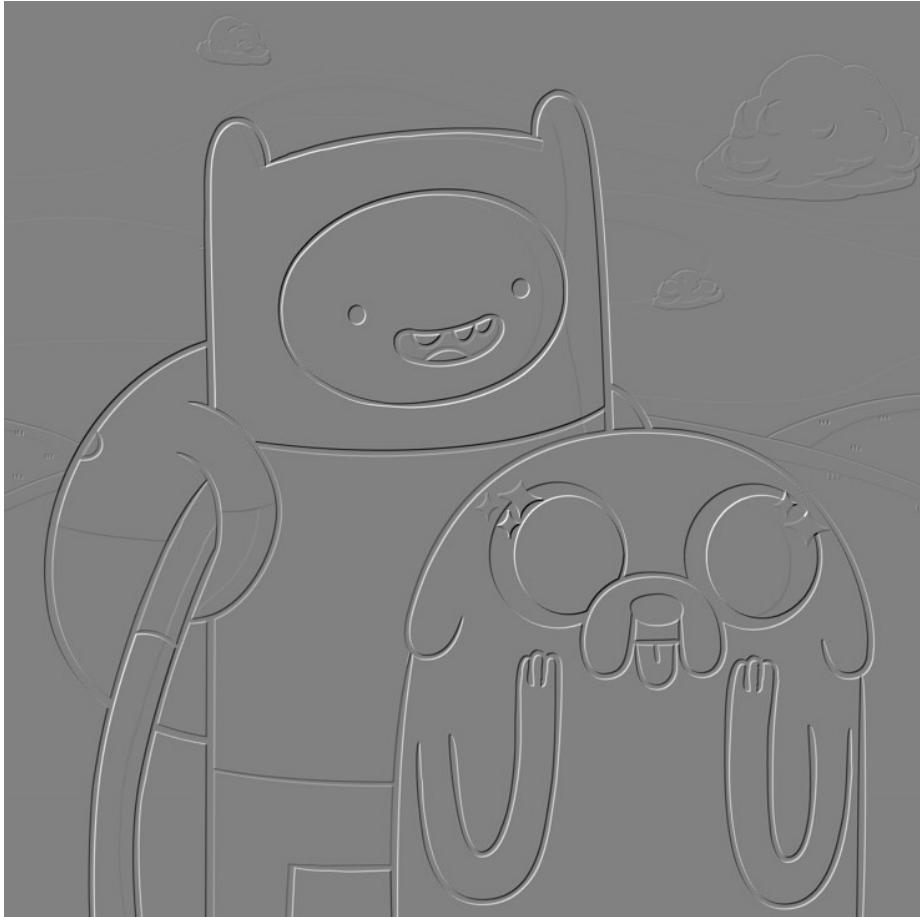
2.



3.

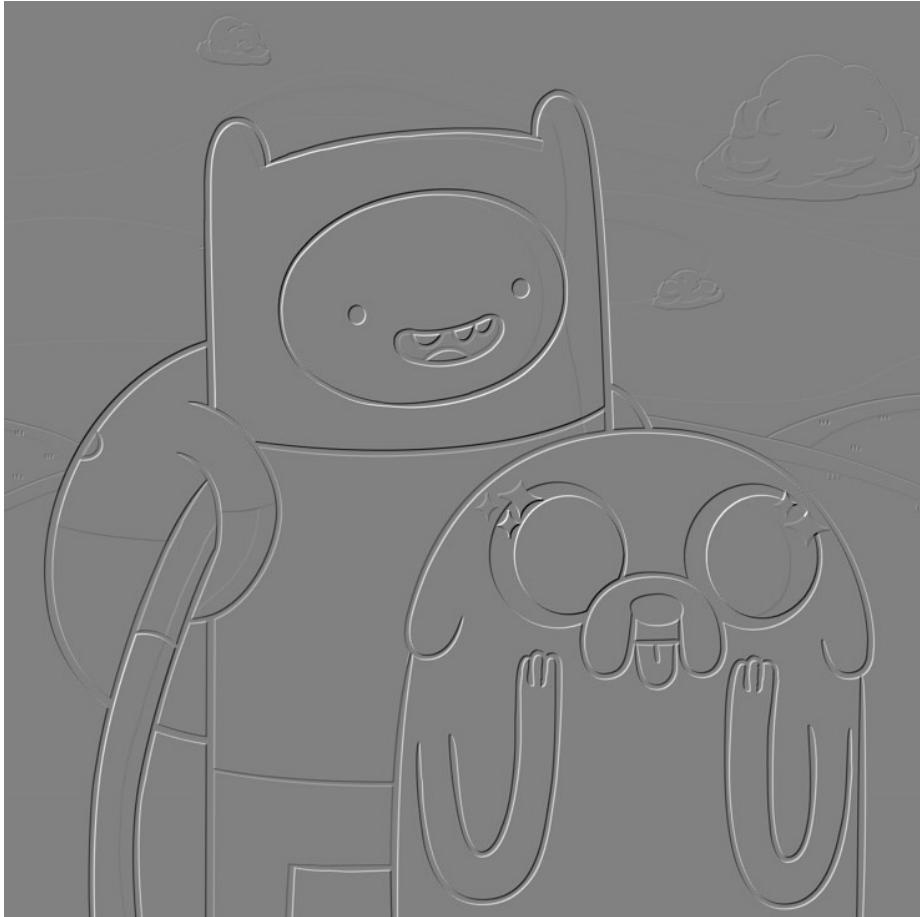
3.1

Gx



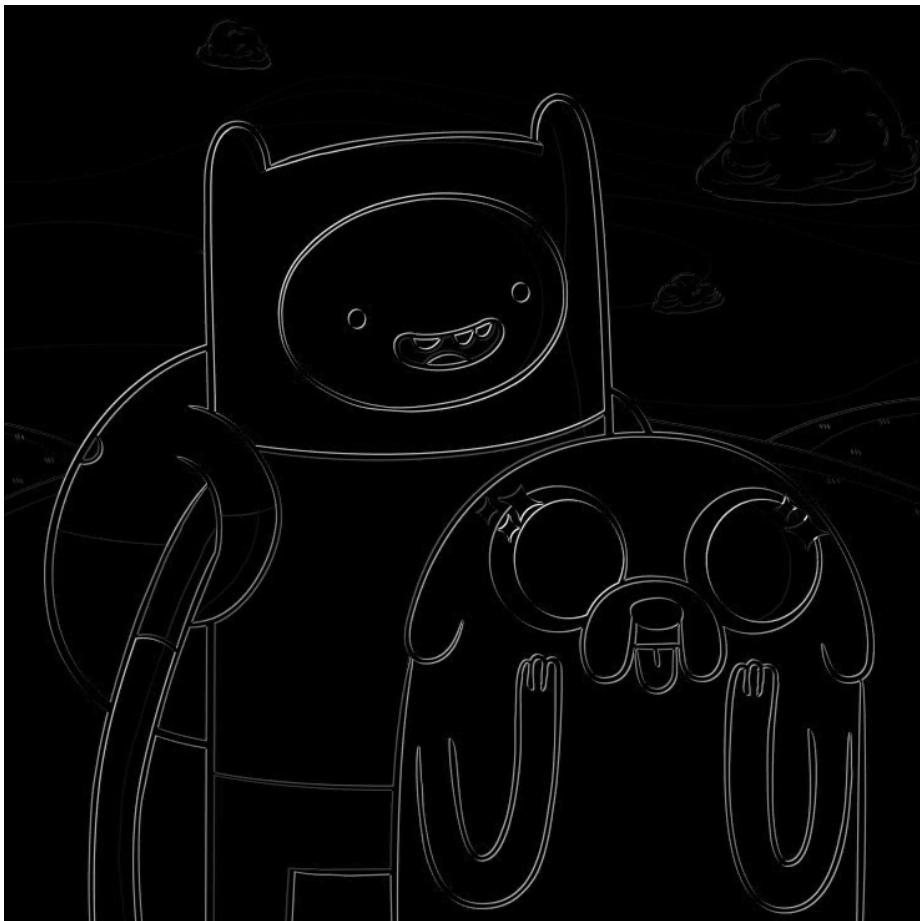
3.2

Gy

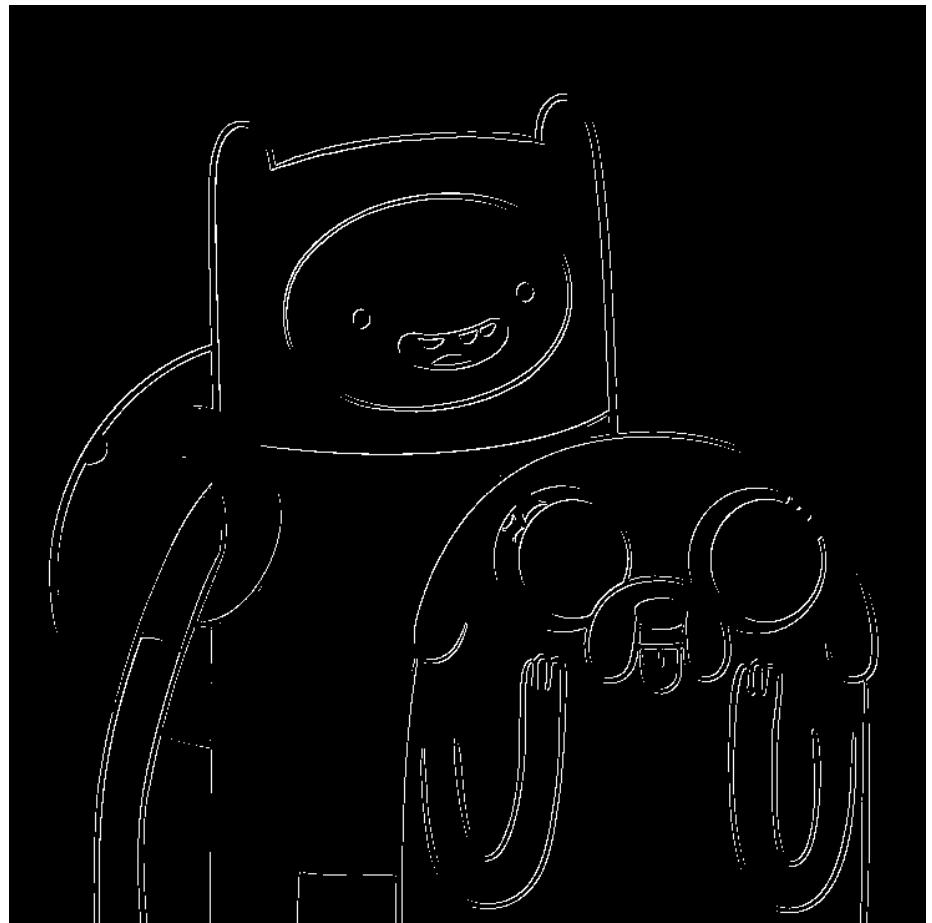


3.3

G



4.



2



1.

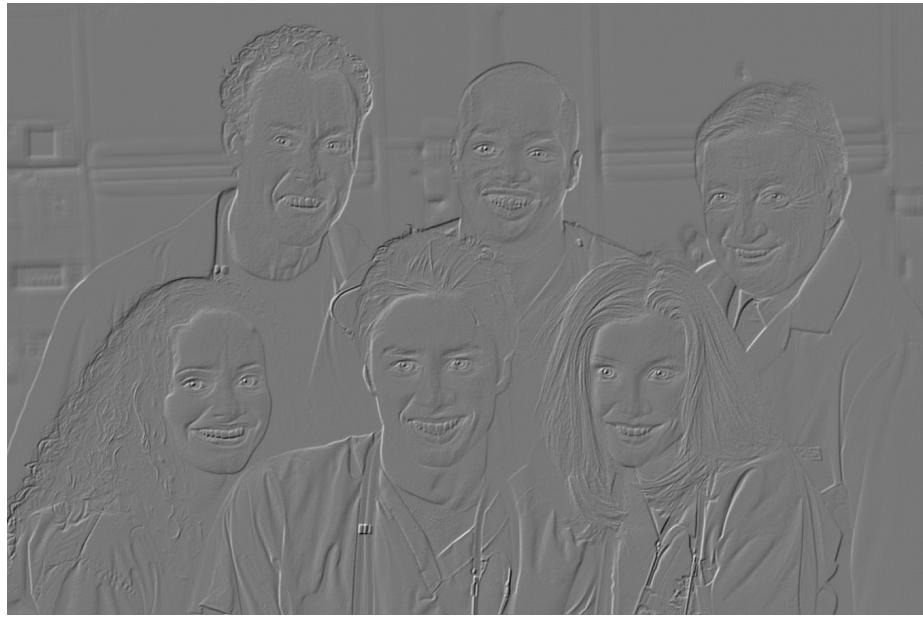


2.

3.

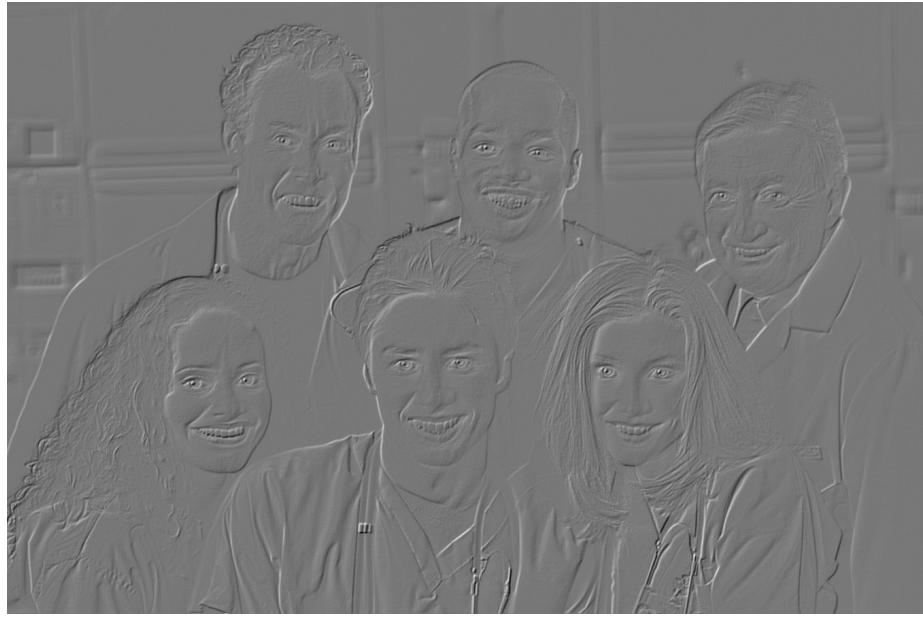
3.1

Gx



3.2

Gy



3.3

G



4.

Nº5.

*A*

*B*

*Γ*

*Δ*

*E*

*Z*

*H*

*Θ*

*I*

*K*

*A*

*M*

*N*

*E*

*O*

*H*

*P*

*S*

*T*

*Y*

*Φ*

*X*

*Ψ*

*Ω*

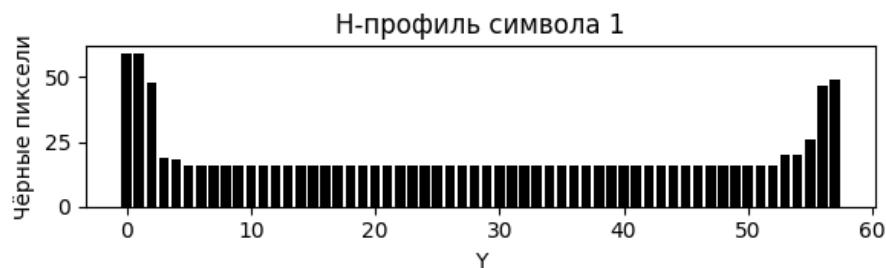
features.csv

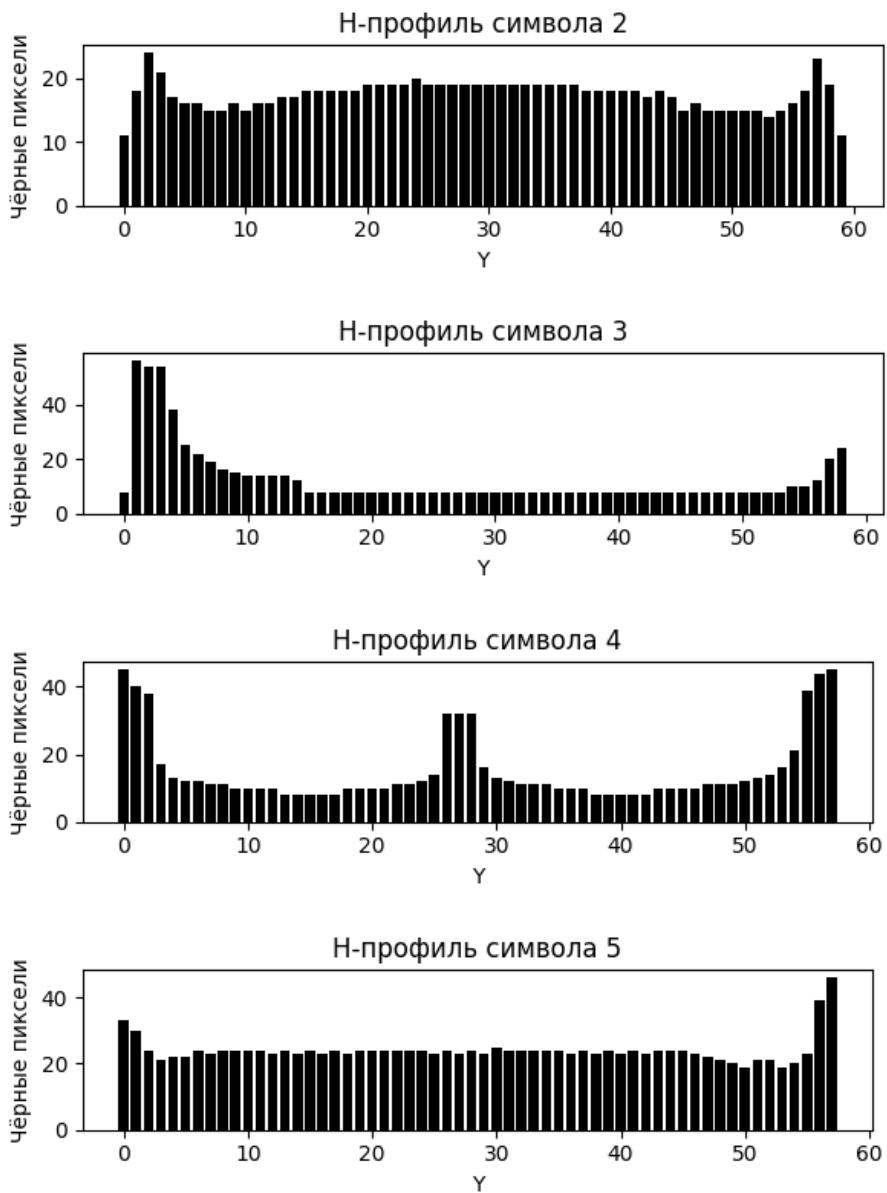


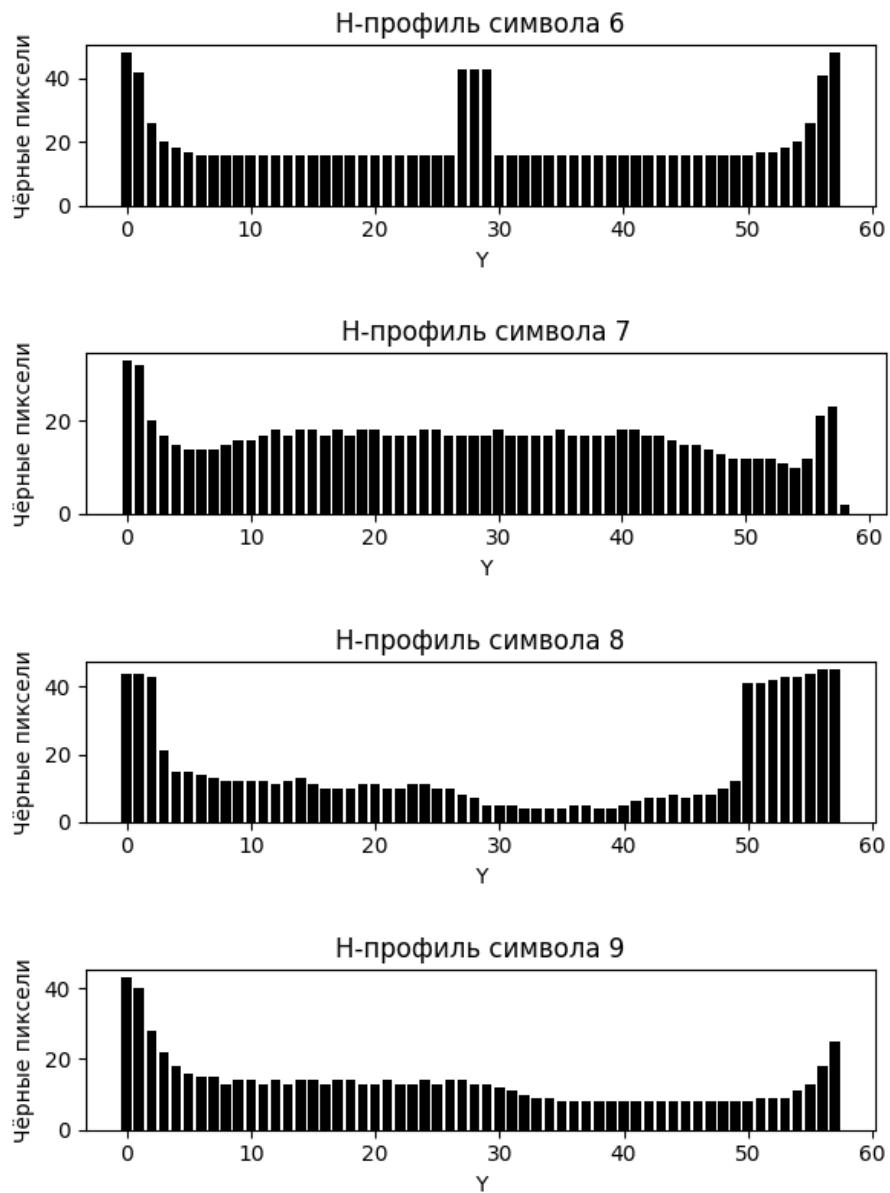
№6.

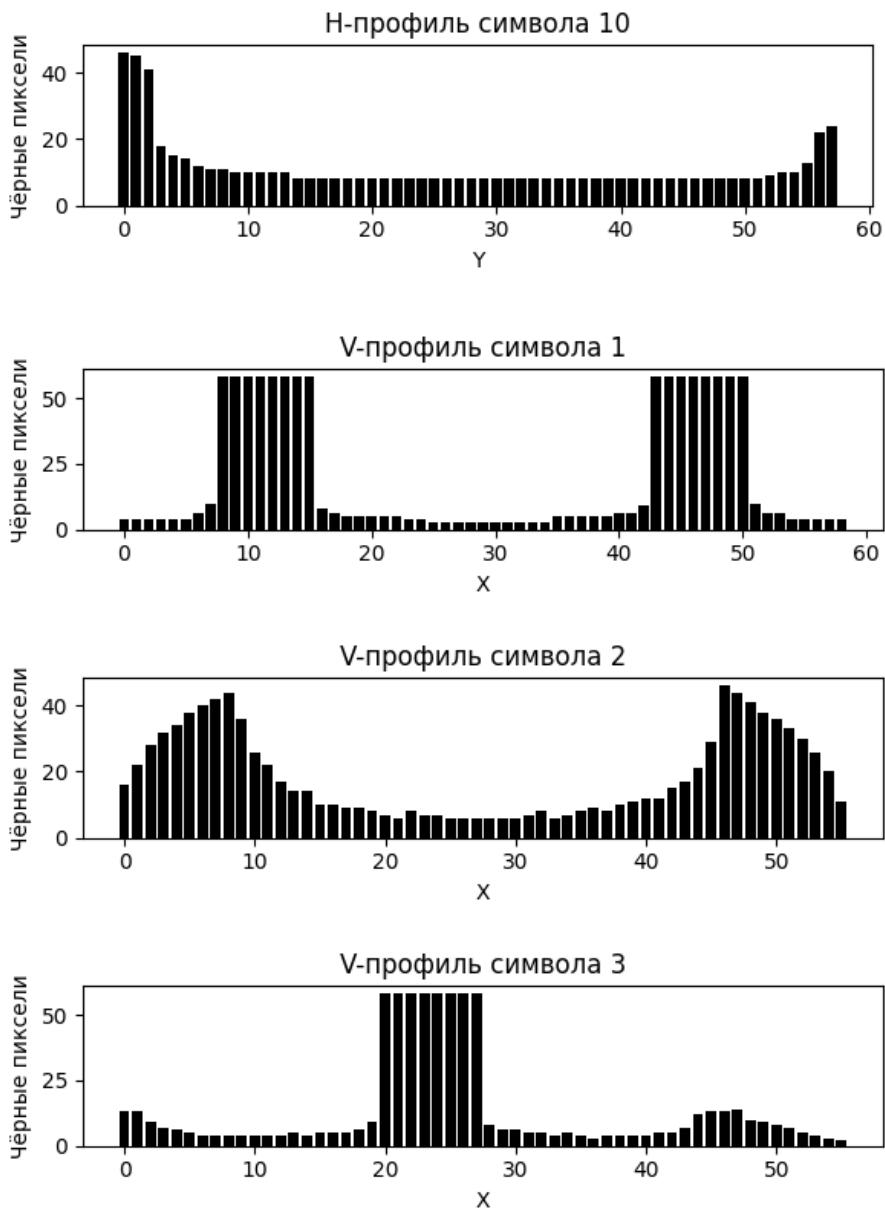
ΠΟΤΕ ΜΗΝ  
ΣΥΓΧΑΙΡΕΤΕ ΕΝΑ  
ΚΟΡΙΤΣΙ ΣΤΟ  
ΜΟΥΣΤΑΚΙ ΤΗΣ  
ΑΝΕΞΑΡΤΗΤΑ ΑΠΟ  
ΤΟ ΠΟΣΟ  
ΥΠΕΡΟΧΟ ΕΙΝΑΙ

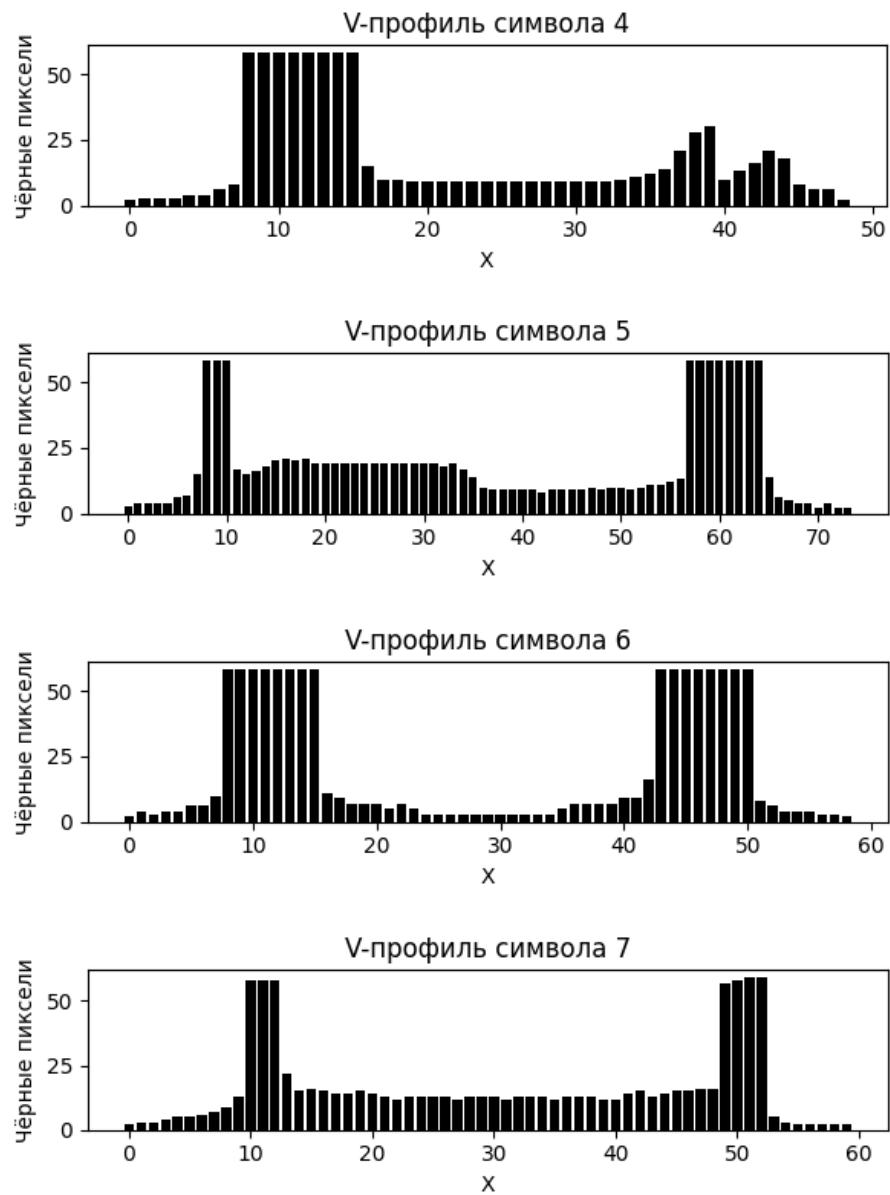
. 3 —

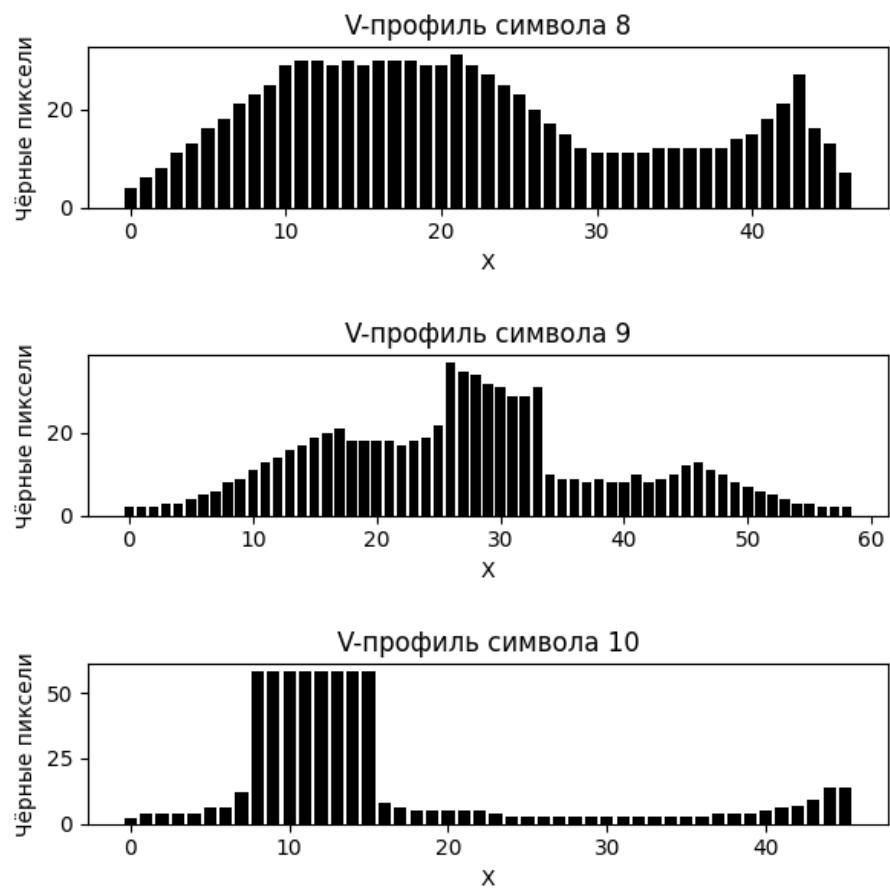








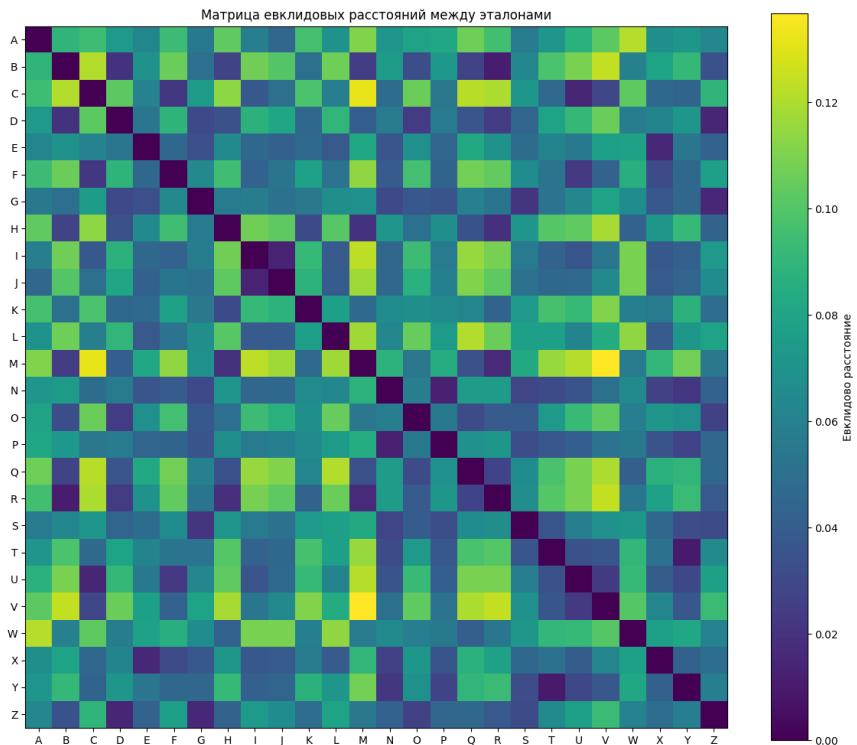




Nº 7.

,

1



2-3

## recognized\_hypotheses.txt

24 ,

( ):

- ```

1: [ ( 'A' , 0.9797) , ( 'F' , 0.8585) , ( 'C' , 0.8392) , ( 'I' , 0.7277) , ( 'P' , 0.7097) , ( 'O' , 0.6881) ,
2: [ ( 'B' , 0.9576) , ( 'N' , 0.8772) , ( 'W' , 0.827) , ( 'B' , 0.7062) , ( 'L' , 0.7053) , ( 'K' , 0.6751) ,
3: [ ( 'G' , 0.9508) , ( 'H' , 0.8543) , ( 'T' , 0.8495) , ( 'R' , 0.7288) , ( 'S' , 0.6732) , ( 'Q' , 0.6451) ,
4: [ ( 'Δ' , 0.9541) , ( 'J' , 0.8555) , ( 'T' , 0.8208) , ( 'E' , 0.717) , ( 'X' , 0.7167) , ( 'Y' , 0.6881) ,
5: [ ( 'E' , 0.934) , ( 'A' , 0.8493) , ( 'Y' , 0.8087) , ( 'H' , 0.786) , ( 'U' , 0.7656) , ( 'B' , 0.7451) ,
6: [ ( 'Z' , 0.9557) , ( 'B' , 0.8445) , ( 'P' , 0.7779) , ( 'X' , 0.7557) , ( 'W' , 0.7527) , ( 'V' , 0.7451) ,
7: [ ( 'N' , 0.8806) , ( 'P' , 0.854) , ( 'G' , 0.8533) , ( 'H' , 0.7754) , ( 'D' , 0.7062) , ( 'T' , 0.6881) ,
8: [ ( 'Θ' , 0.9833) , ( 'C' , 0.8291) , ( 'H' , 0.8045) , ( 'B' , 0.7803) , ( 'D' , 0.7195) , ( 'F' , 0.6881) ,
9: [ ( 'I' , 0.974) , ( 'C' , 0.8222) , ( 'L' , 0.8212) , ( 'G' , 0.7612) , ( 'Z' , 0.7378) , ( 'W' , 0.7097) ]

```

```

10: [('K', 0.9779), ('Z', 0.8247), ('X', 0.8238), ('V', 0.8045), ('E', 0.7723),
11: [('Λ', 0.9612), ('G', 0.8625), ('A', 0.8555), ('O', 0.798), ('L', 0.76), ('Ε', 0.7442),
12: [('Μ', 0.9774), ('Α', 0.8733), ('Κ', 0.8198), ('L', 0.7092), ('Η', 0.704), ('Ω', 0.682),
13: [('Ν', 0.9872), ('Ζ', 0.8798), ('Α', 0.8492), ('Μ', 0.7442), ('C', 0.7258), ('Π', 0.704),
14: [('Ξ', 0.9443), ('L', 0.8133), ('R', 0.7856), ('Y', 0.7815), ('U', 0.7153), ('Δ', 0.704),
15: [('Ο', 0.9542), ('S', 0.8578), ('D', 0.8213), ('R', 0.777), ('Κ', 0.7525), ('Β', 0.7442),
16: [('Π', 0.9606), ('T', 0.8442), ('N', 0.8371), ('C', 0.7252), ('S', 0.682), ('Γ', 0.682),
17: [('P', 0.978), ('F', 0.8755), ('A', 0.7272), ('D', 0.7011), ('N', 0.661), ('Ψ', 0.661),
18: [('Σ', 0.9788), ('Q', 0.8328), ('J', 0.8275), ('L', 0.7626), ('Χ', 0.7551), ('Ω', 0.682),
19: [('Τ', 0.9795), ('Q', 0.8735), ('I', 0.8232), ('V', 0.8045), ('Α', 0.7621), ('Υ', 0.7442),
20: [('Υ', 0.9544), ('A', 0.8391), ('Q', 0.8107), ('Y', 0.8043), ('C', 0.8032), ('Θ', 0.7442),
21: [('Ο', 0.893), ('W', 0.8774), ('K', 0.8731), ('Z', 0.8723), ('F', 0.8611), ('Ε', 0.7442),
22: [('Χ', 0.9455), ('I', 0.8548), ('Q', 0.8501), ('H', 0.8412), ('X', 0.8), ('Υ', 0.7442),
23: [('D', 0.9149), ('E', 0.8401), ('S', 0.738), ('N', 0.7233), ('M', 0.696), ('Θ', 0.682),
24: [('R', 0.9078), ('K', 0.8368), ('E', 0.8352), ('A', 0.8297), ('N', 0.8172), ('Ψ', 0.682)

```

## 4

: ΑΒΓΔΕΖΝΘΙΚΛΑΜΝΞΟΠΡΣΤΤΥΟΧΔΡ  
: ΑΒΓΔΕΖΗΘΙΚΛΑΜΝΞΟΠΡΣΤΥΦΧΨΩ

## 5

: 3 : 87.50%

## 6

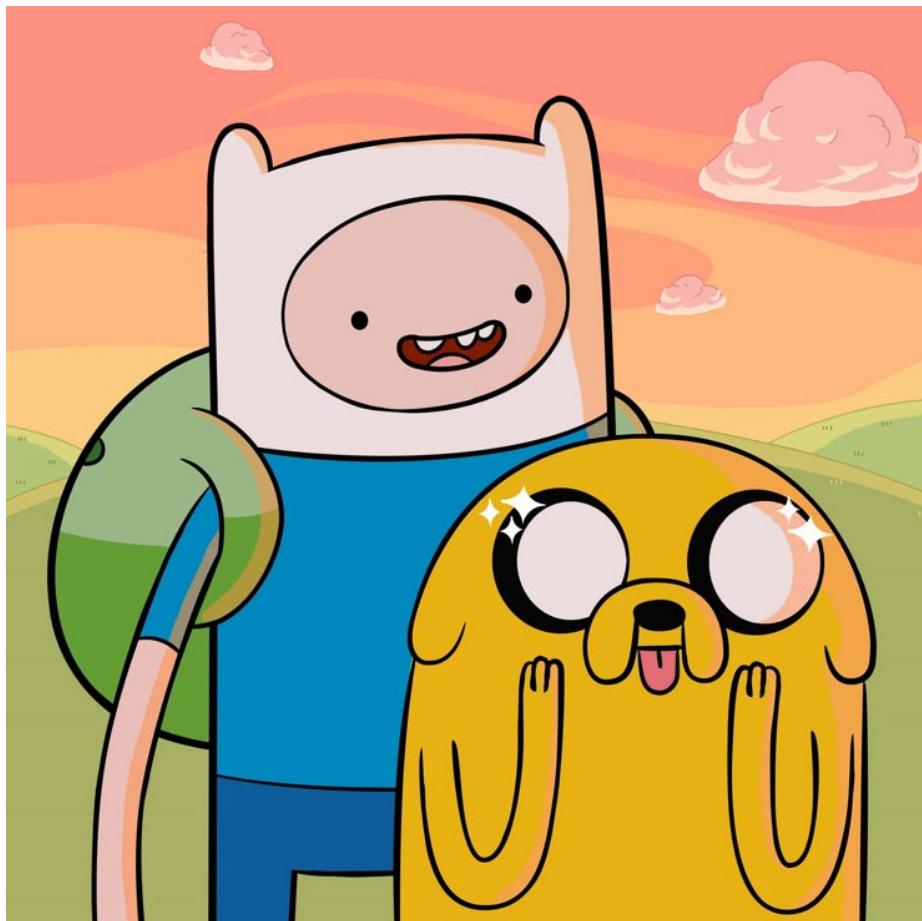
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: ΑΒΓΔΕΖΗΘΙΚΛΑΜΝΞΟΠΡΣΤΥΦΧΨΩ  
: 4 : 83.33%

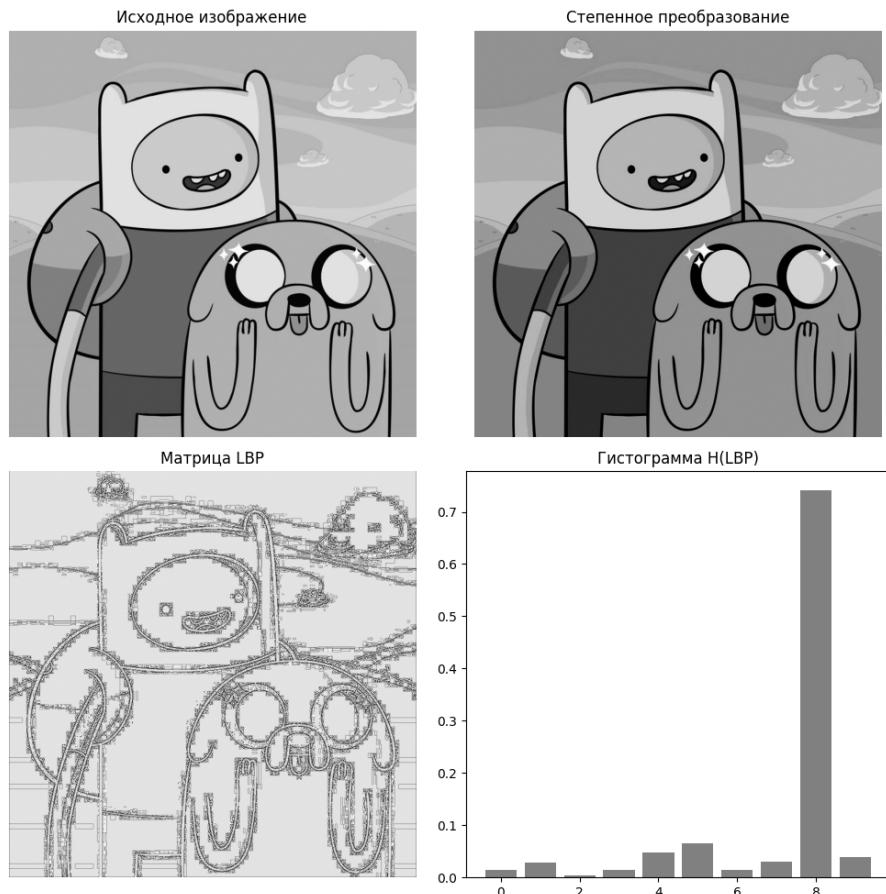
Nº8.

- LBP

P - H(LBP)

1

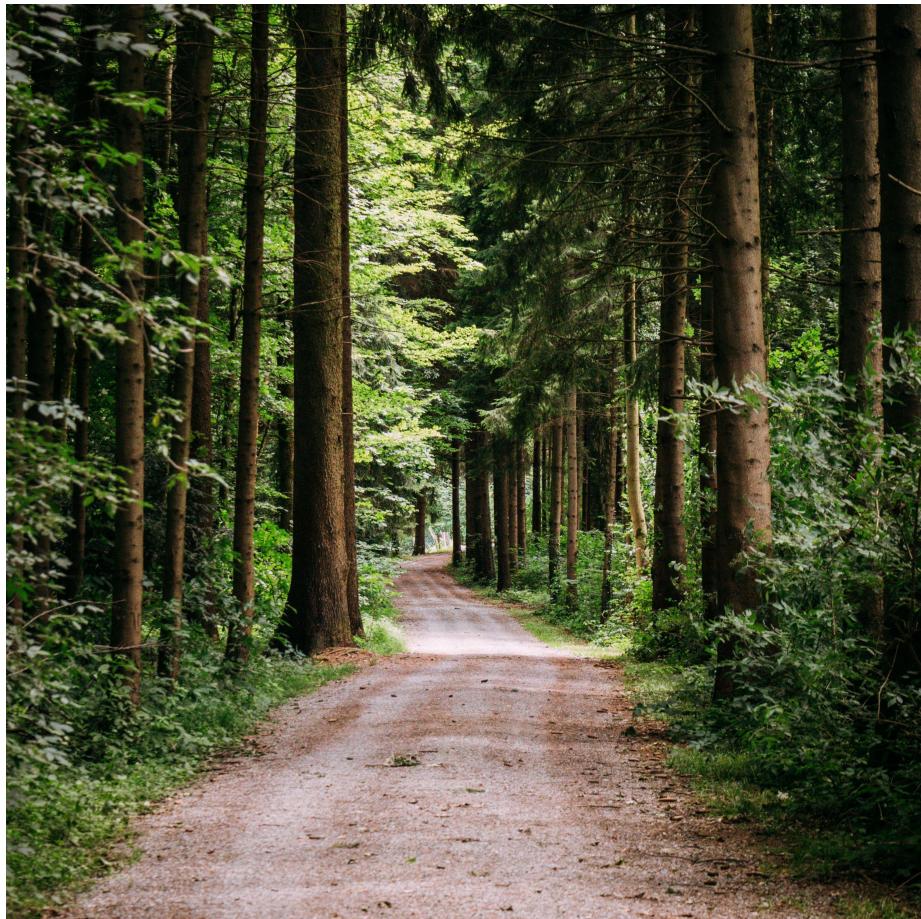


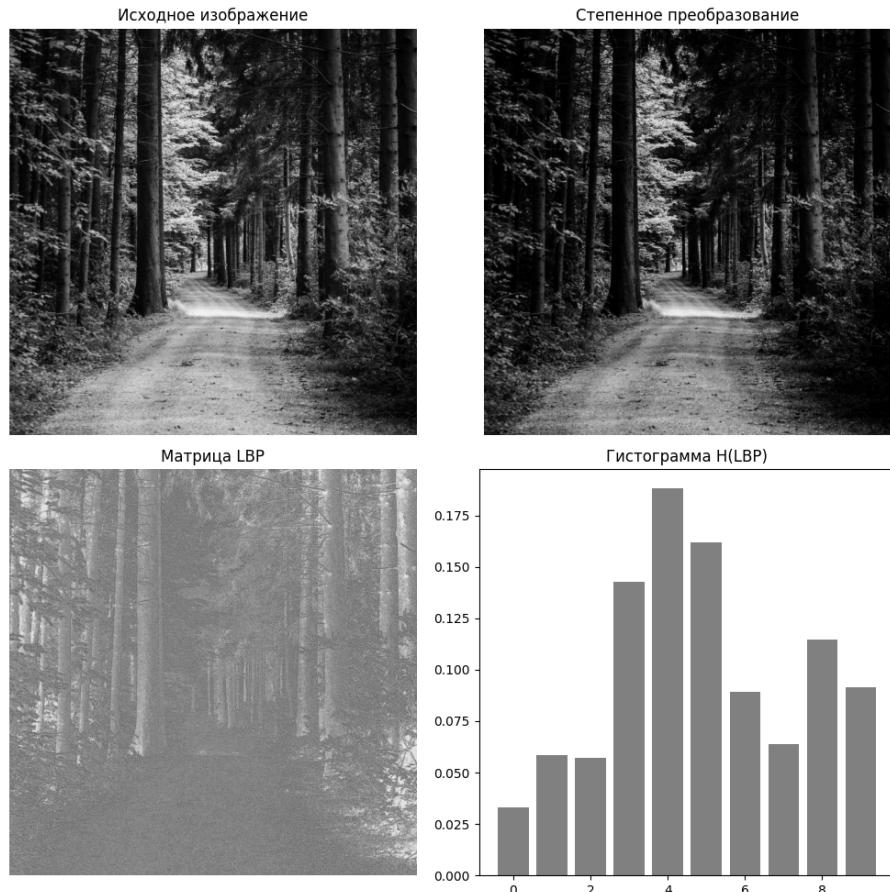


: Coarseness=0.0002, Contrast=8.3215, Busyness=0.0001

: Coarseness=0.0002, Contrast=7.1574, Busyness=0.0001

2



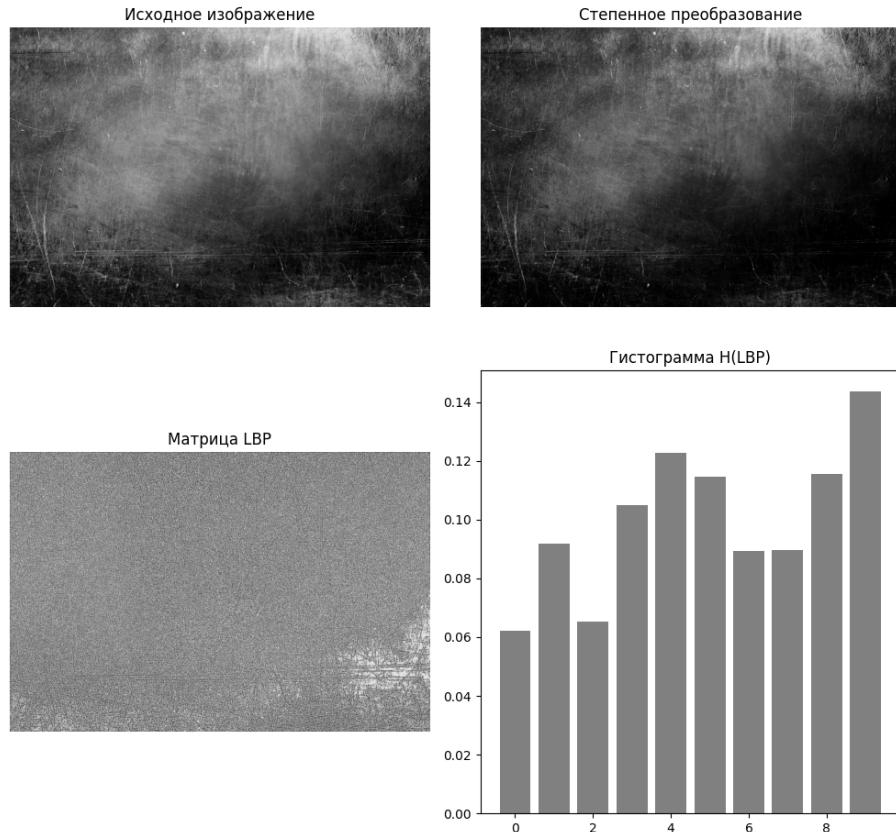


: Coarseness=0.0001, Contrast=11.1095, Busyness=0.0000

: Coarseness=0.0001, Contrast=9.6524, Busyness=0.0000

3





: Coarseness=0.0000, Contrast=4.2755, Busyness=0.0000

: Coarseness=0.0000, Contrast=5.0123, Busyness=0.0000

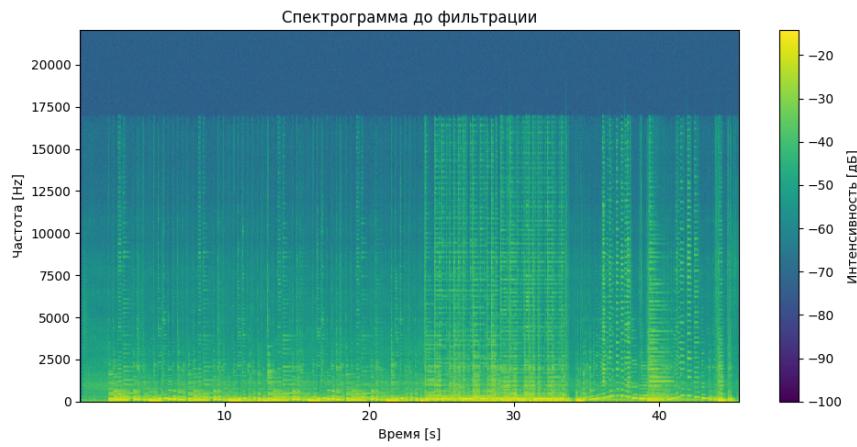


Figure 8:



Figure 9:

## №9

40–50

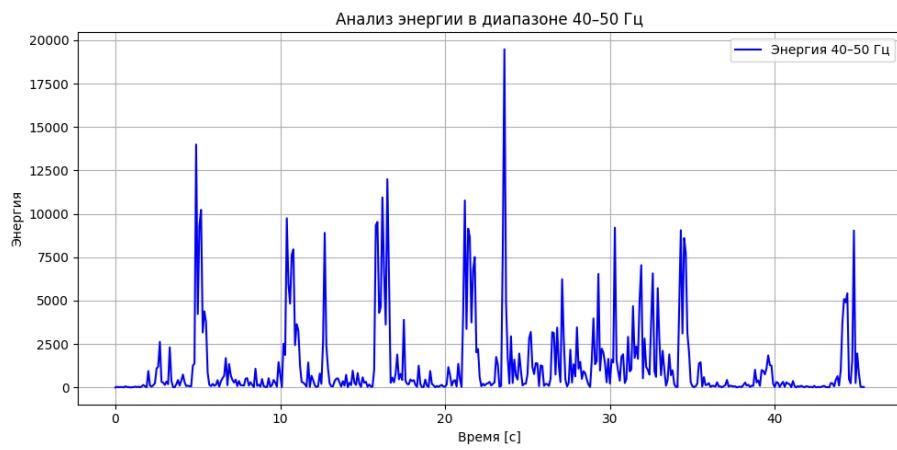


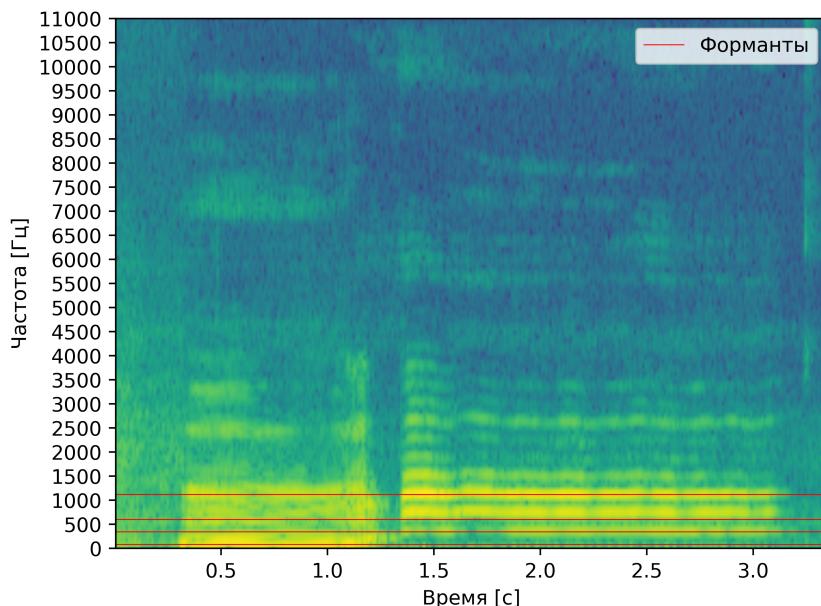
Figure 10: 40–50

- 28.468s @ 86.1Hz — energy=0.21
- 29.756s @ 86.1Hz — energy=0.21
- 44.791s @ 129.2Hz — energy=0.19
- 27.179s @ 86.1Hz — energy=0.19
- 23.882s @ 86.1Hz — energy=0.18
- 31.695s @ 86.1Hz — energy=0.17
- 24.555s @ 172.3Hz — energy=0.17
- 33.622s @ 86.1Hz — energy=0.17
- 25.867s @ 86.1Hz — energy=0.16
- 26.517s @ 172.3Hz — energy=0.16

## №10.

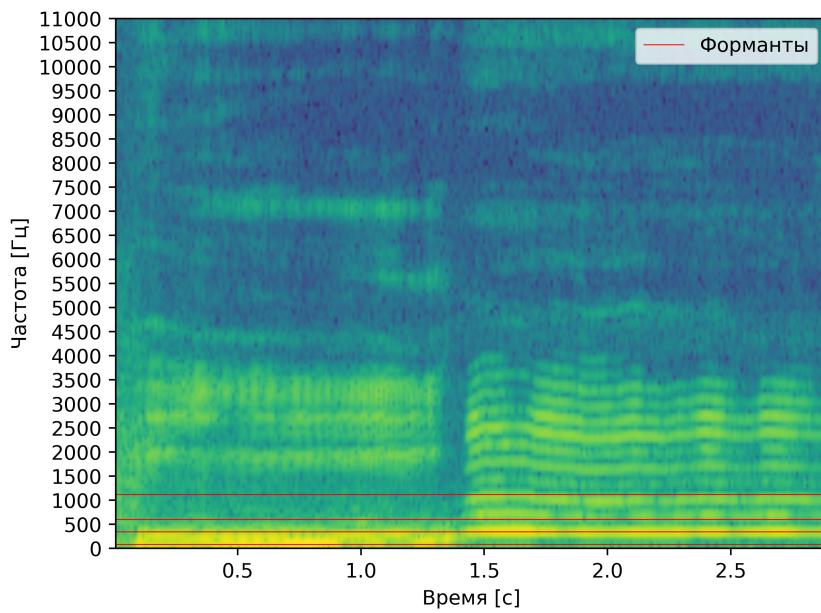
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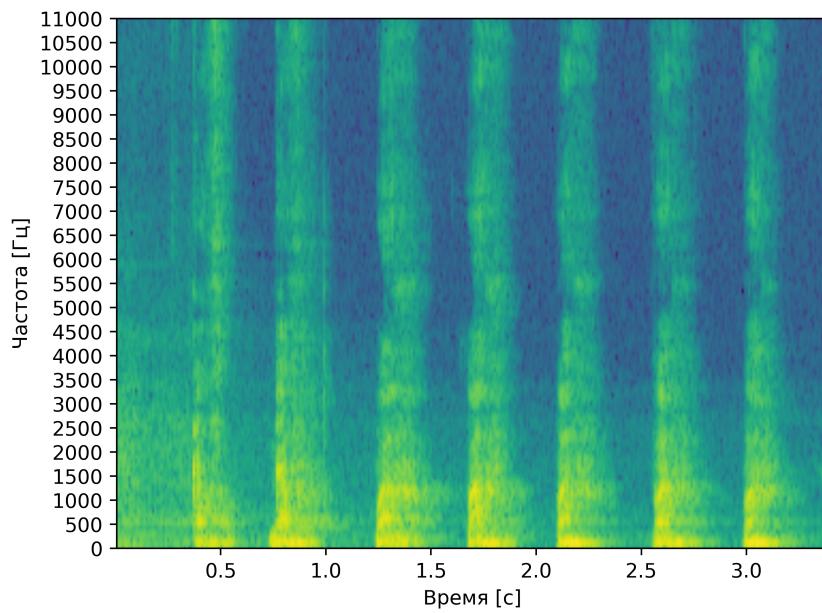
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861 , **FIIV** 1119  
: 1894

“ ”



: 86

: **FI** : 344 , **FIII** : 602 , **86** , , **FIV** 1119 **FII**  
: 3186



: 1808