



000

001

010

011

100

101

110

111

123

1

123

10 1

123

100 10 1

123

100 10 1

123

100×1

100 10 1

123

100×1 $+$ 10×2

100 10 1

123

100×1 $+$ 10×2 $+$ 1×3

100 10 1

123

100 + 20 + 3

123

100 10 1

#

10^2 10^1 10^0

#

2^2 2^1 2^0

#

4 2 1

#

4 2 1

000

4 2 1

001

4 2 1

010

4 2 1

011

4 2 1

100

4 2 1

101

4 2 1

110

4 2 1

111

A

65

01000001

ASCII

...	A	B	C	D	E	F	G	H	I	...
...	65	66	67	68	69	70	71	72	73	...

72

73

33

H
72

I
73

33

H
72

I
73

!
33

0	<u>NUL</u>	16	<u>DLE</u>	32	<u>SP</u>	48	0	64	@	80	P	96	`	112	p
1	<u>SOH</u>	17	<u>DC1</u>	33	!	49	1	65	A	81	Q	97	a	113	q
2	<u>STX</u>	18	<u>DC2</u>	34	"	50	2	66	B	82	R	98	b	114	r
3	<u>ETX</u>	19	<u>DC3</u>	35	#	51	3	67	C	83	S	99	c	115	s
4	<u>EOT</u>	20	<u>DC4</u>	36	\$	52	4	68	D	84	T	100	d	116	t
5	<u>ENQ</u>	21	<u>NAK</u>	37	%	53	5	69	E	85	U	101	e	117	u
6	<u>ACK</u>	22	<u>SYN</u>	38	&	54	6	70	F	86	V	102	f	118	v
7	<u>BEL</u>	23	<u>ETB</u>	39	'	55	7	71	G	87	W	103	g	119	w
8	<u>BS</u>	24	<u>CAN</u>	40	(	56	8	72	H	88	X	104	h	120	x
9	<u>HT</u>	25	<u>EM</u>	41	)	57	9	73	I	89	Y	105	i	121	y
10	<u>LF</u>	26	<u>SUB</u>	42	*	58	:	74	J	90	Z	106	j	122	z
11	<u>VT</u>	27	<u>ESC</u>	43	+	59	;	75	K	91	[	107	k	123	{
12	<u>FF</u>	28	<u>FS</u>	44	,	60	<	76	L	92	\	108	l	124	|
13	<u>CR</u>	29	<u>GS</u>	45	-	61	=	77	M	93	]	109	m	125	}
14	<u>SO</u>	30	<u>RS</u>	46	.	62	>	78	N	94	^	110	n	126	~
15	<u>SI</u>	31	<u>US</u>	47	/	63	?	79	O	95	_	111	o	127	<u>DEL</u>

H
72

I
73

!
33

H

01001000

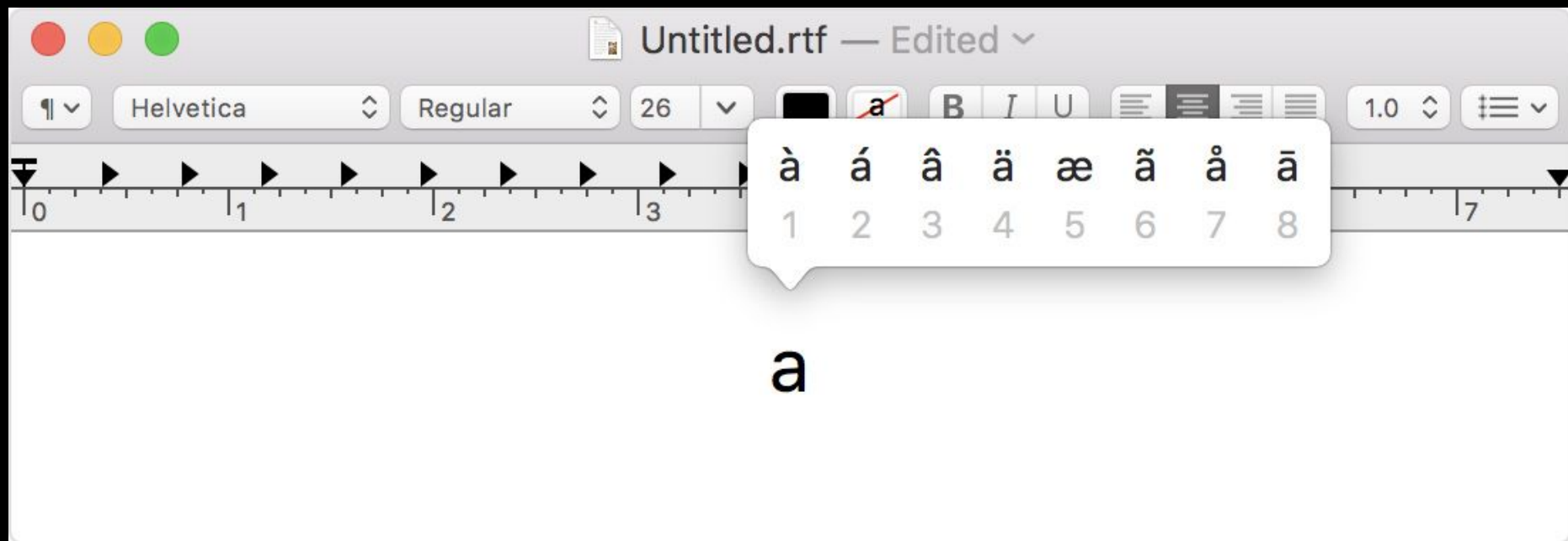
I

01001001

!

00100001

~ `	1 !	2 @	3 #	4 \$	5 %	6 ^	7 &	8 *	9 (	0)	- _	+ =	← Backspace
Tab ⇐ ⇒	Q	W	E	R	T	Y	U	I	O	P	{ [	} ]	| \ _
Caps Lock ⬆	A	S	D	F	G	H	J	K	L	: ;	" '	Enter ↵	
Shift ⬆	Z	X	C	V	B	N	M	< ,	> .	? /	Shift ⬆		
Ctrl	Win Key	Alt								Alt	Win Key	Menu	Ctrl





Search

FAVORITES



SMILEYS & PEOPLE



Unicode

4,036,991,159

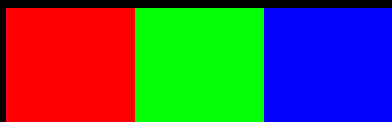
11110000 10011111 10011000 10110111







RGB

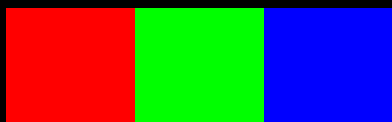


72 73 33

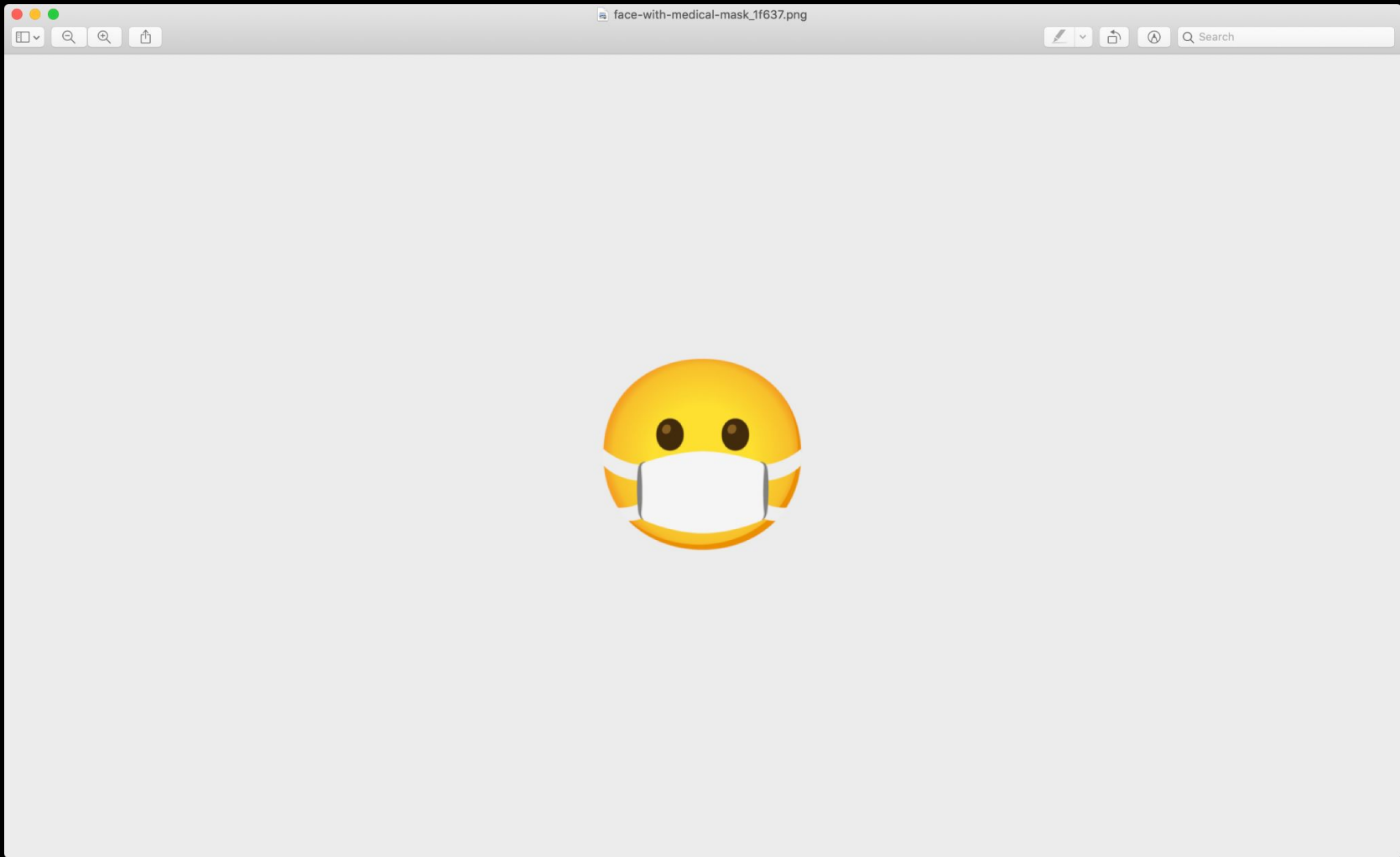
72

73

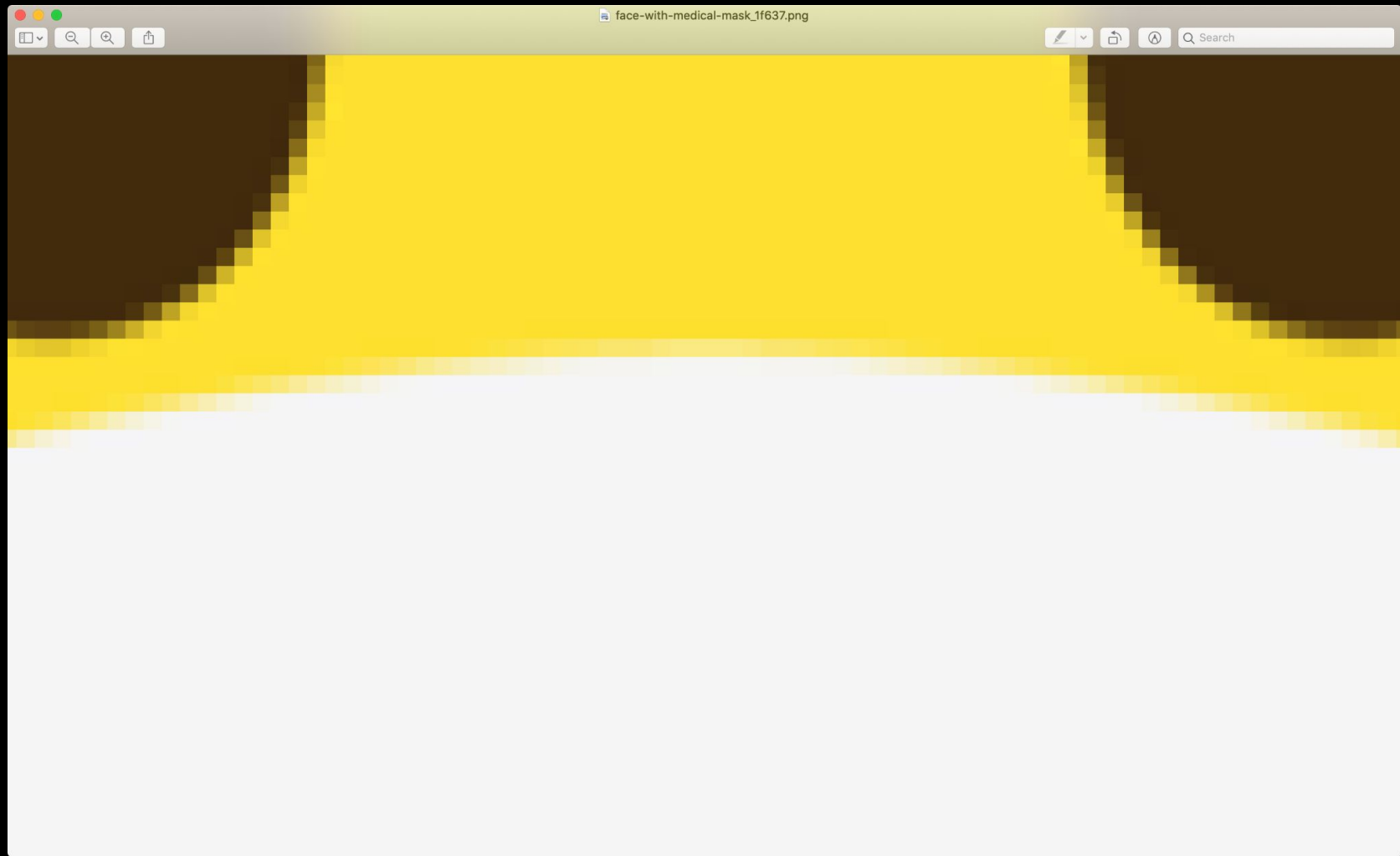
33













144 60 64

128 60 64

144 62 64

128 62 64

144 65 64

128 65 64

144 62 64

128 62 64

144 69 64

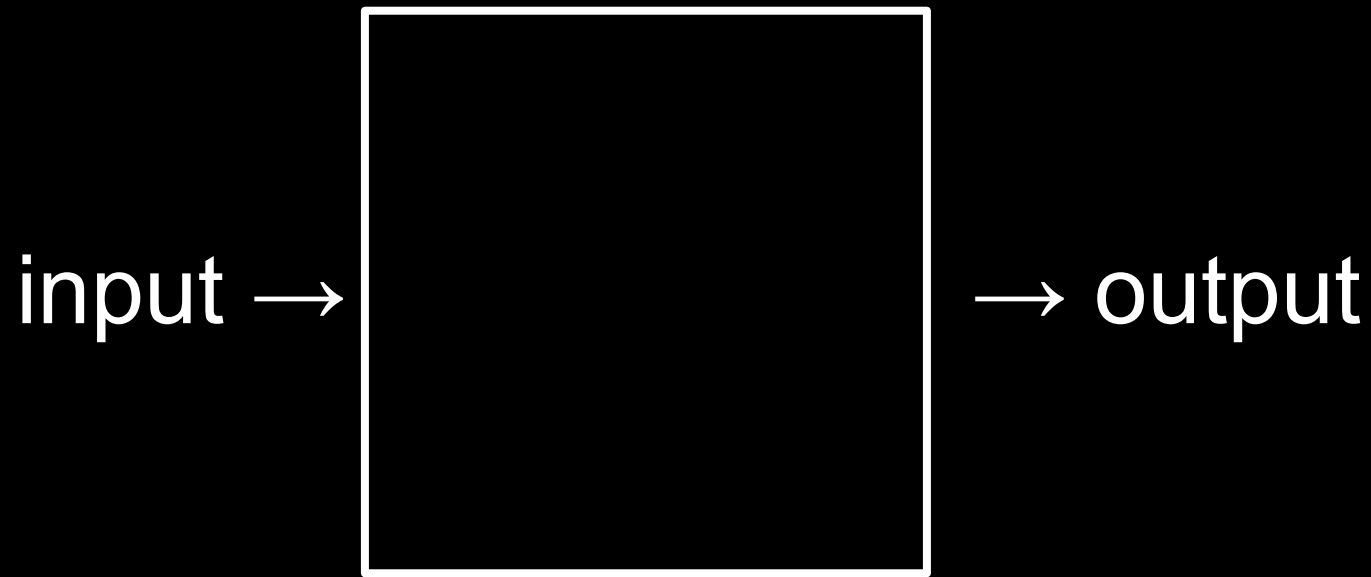
128 69 64

144 69 64

128 69 64

144 67 64

128 67 64





algorithm



Groups



Contacts

Q Search

A

Albus

C

Cedric

D

Draco

F

Fred

G

George

Ginny

H

Hagrid

Harry

Hermione

J

James

A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
P
Q
R
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T
U
V
W
X
Y
Z
#

< Contacts

Edit



John Harvard



message



call



video



mail



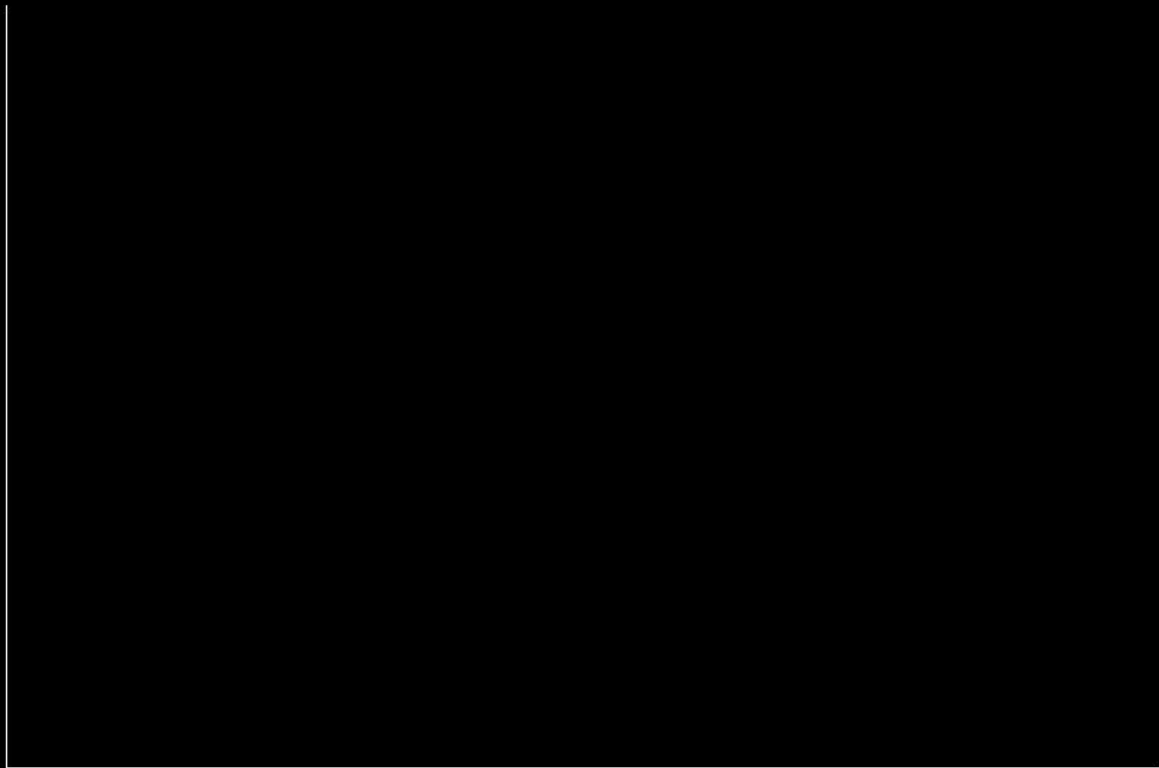
pay

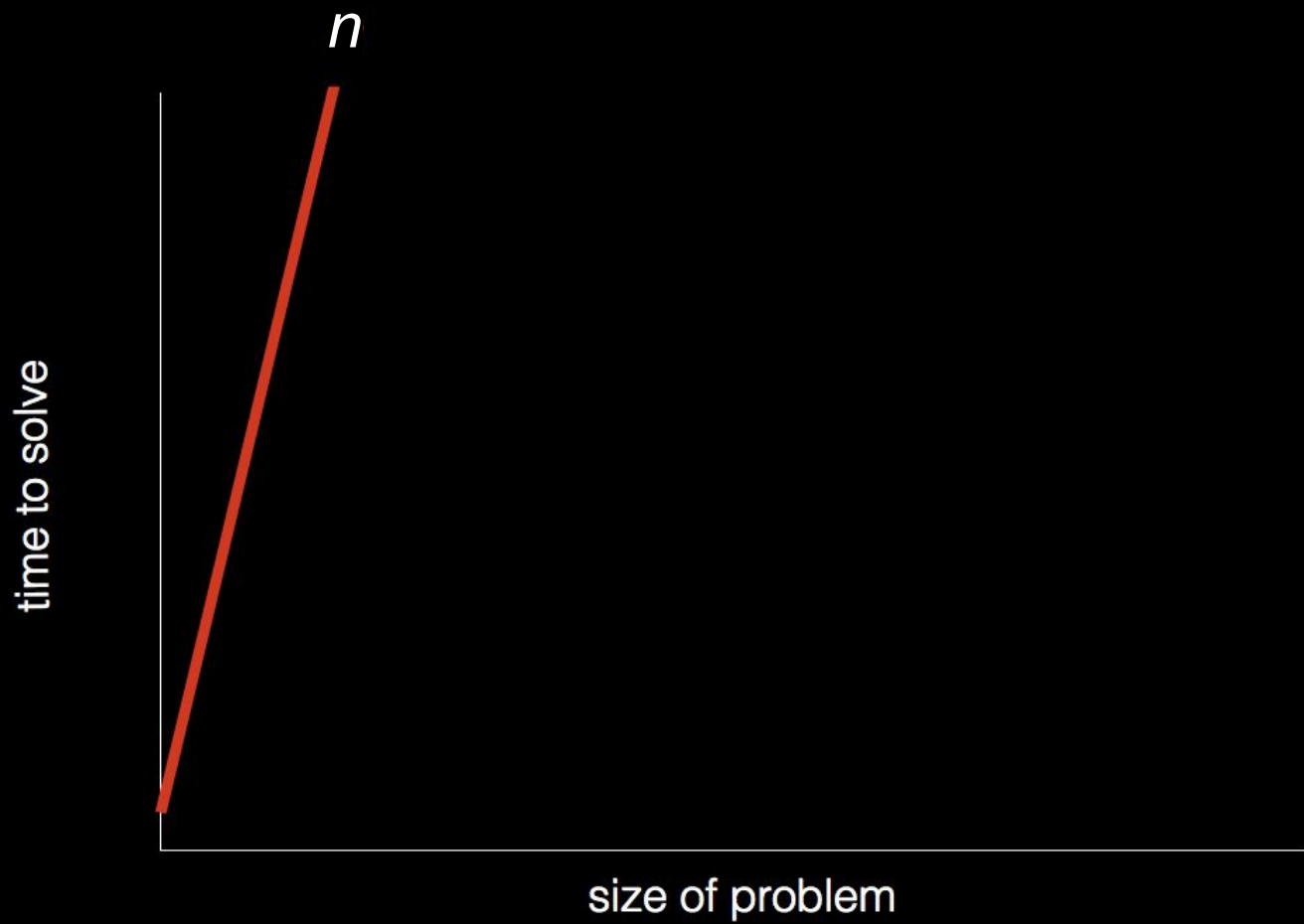
mobile

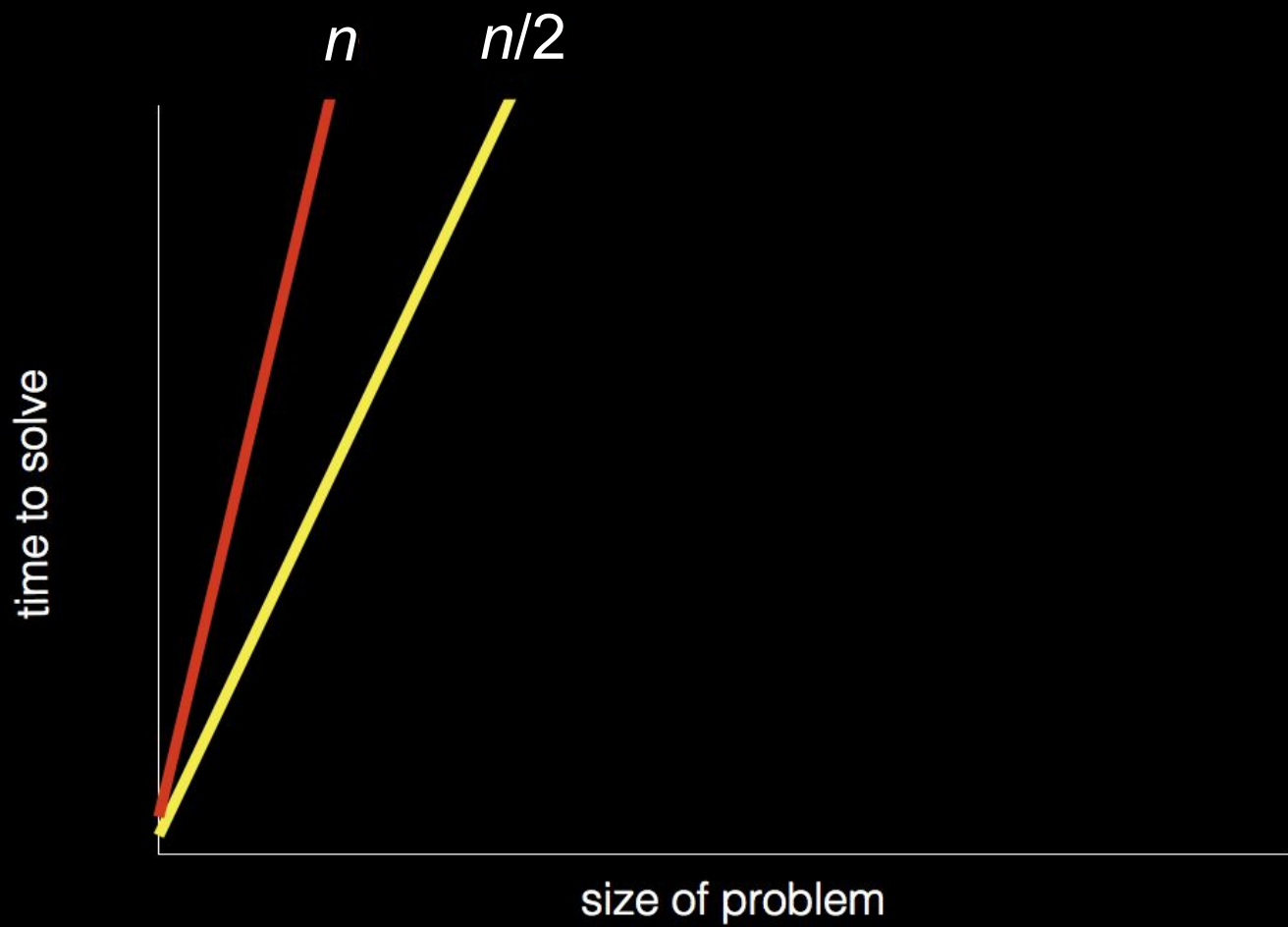
+1 (949) 468-2750

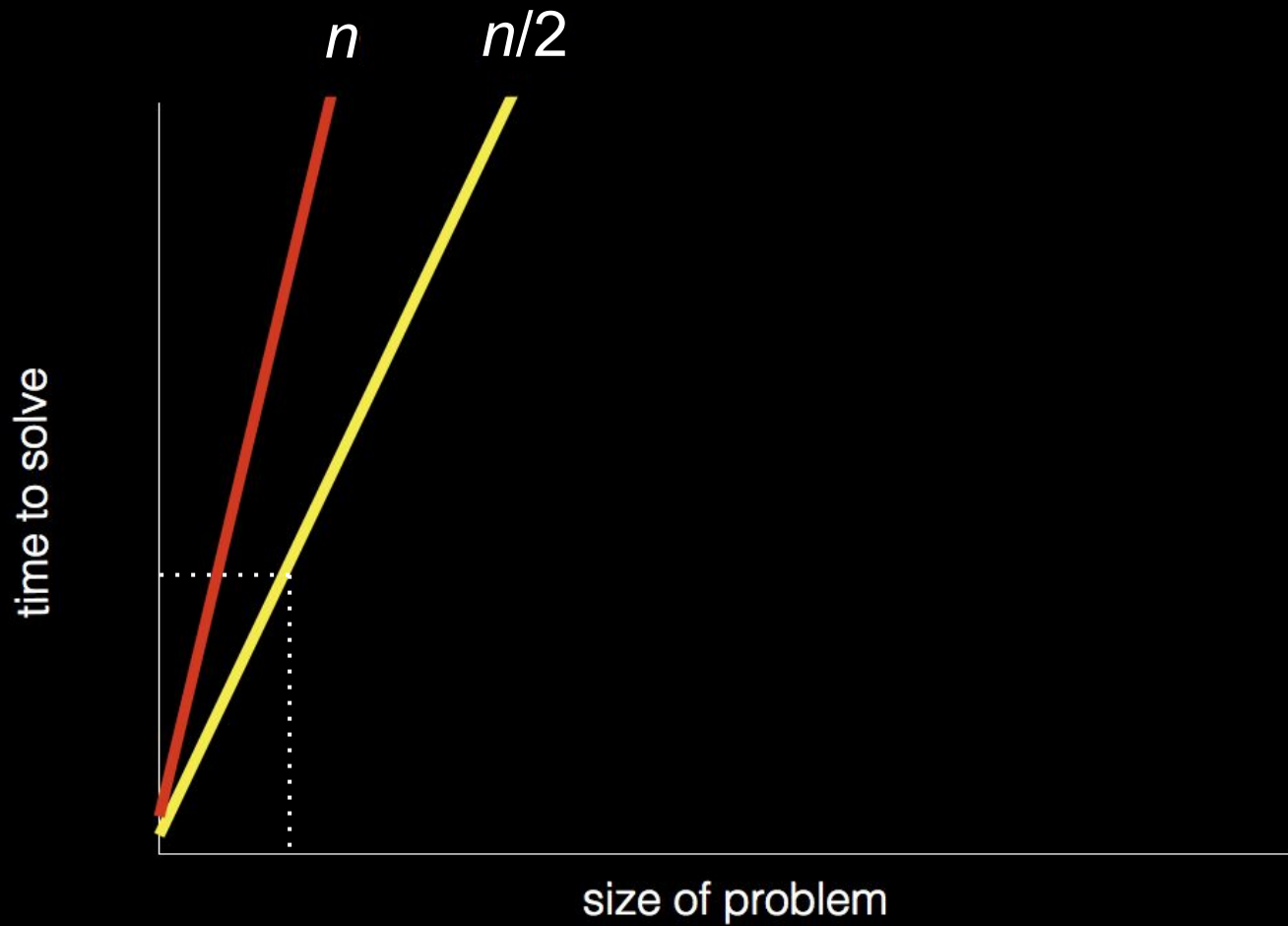
time to solve

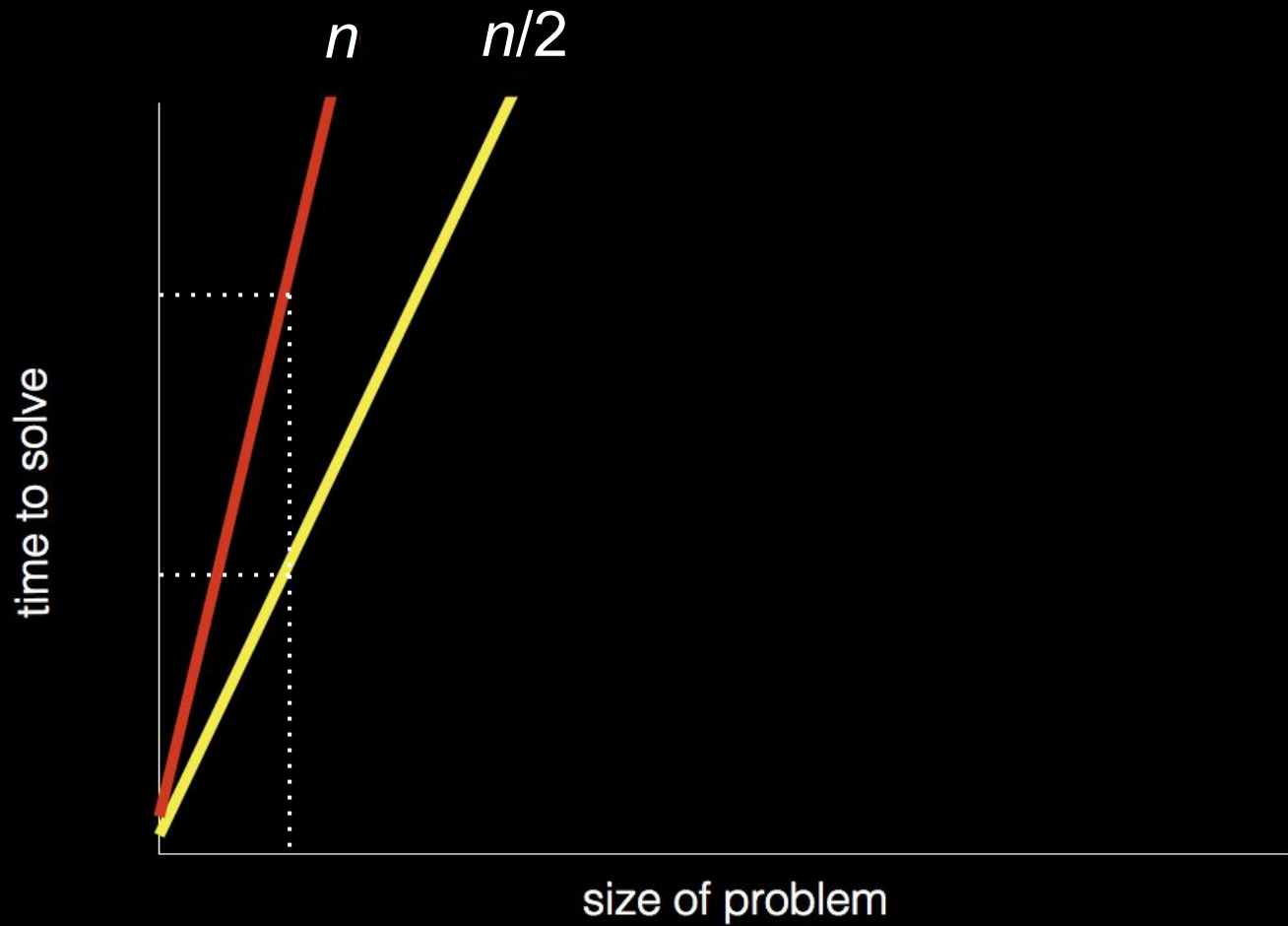
size of problem

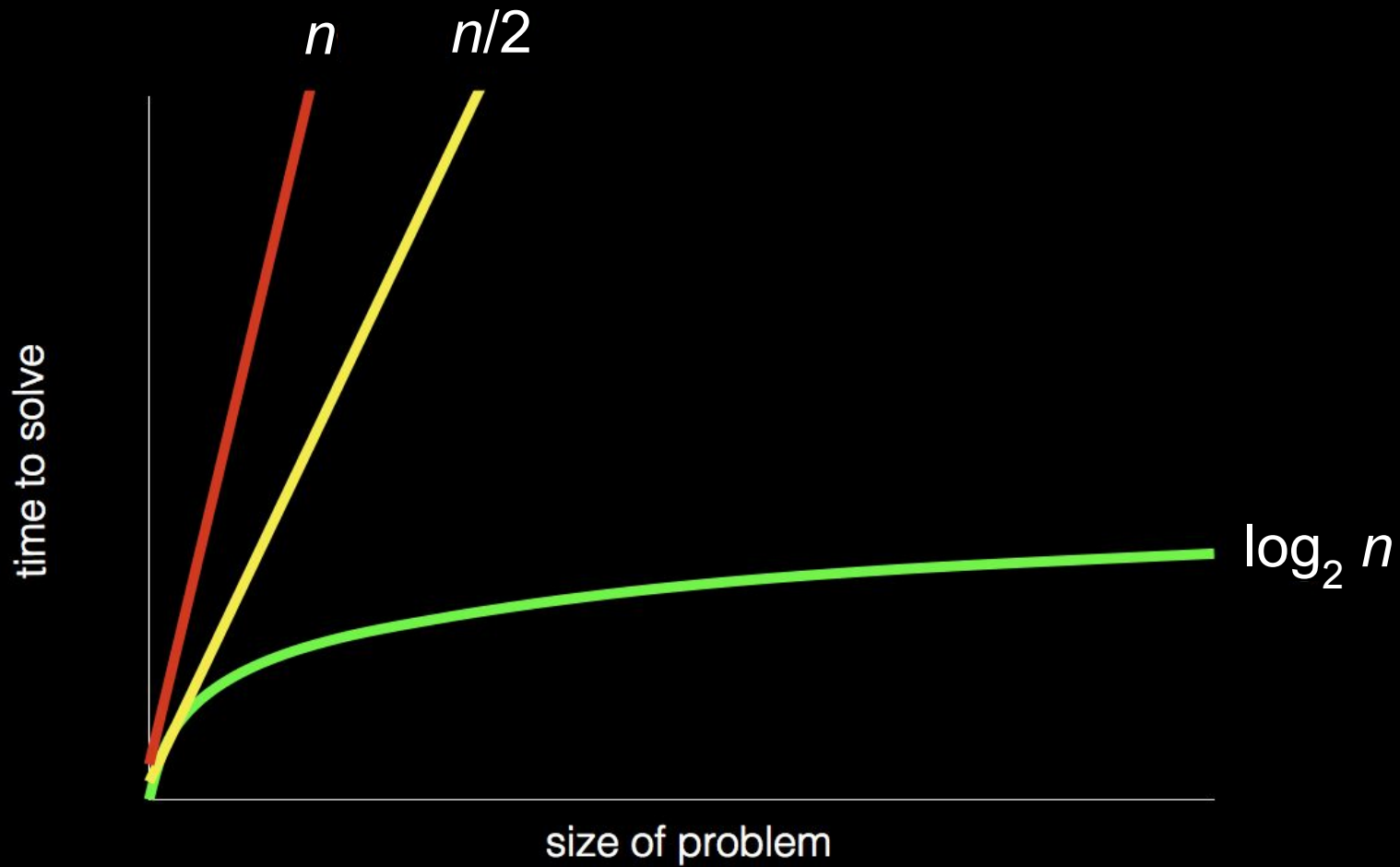












pseudocode

```
1  Pick up phone book
2  Open to middle of phone book
3  Look at page
4  If person is on page
5      Call person
6  Else if person is earlier in book
7      Open to middle of left half of book
8      Go back to line 3
9  Else if person is later in book
10     Open to middle of right half of book
11     Go back to line 3
12 Else
13     Quit
```

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13     Quit
```

- functions
 - arguments, return values
- conditionals
- Boolean expressions
- loops
- variables
- ...

```
#include <stdio.h>
```

```
int main(void)
```

```
{
```

```
    printf("hello, world\n");
```

```
}
```



```
print("hello, world")
```

