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/Applications/Anaconda-Navigator.app/Contents/MacOS/python /Users/
kycchung/Desktop/Capstone-master/evaluation_easyocr.py
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Character accuracy in EasyOCR/Contract

```
Characters predicted 35101.00
Errors              250.00
Character accuracy   99.29
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Throughput in EasyOCR/Contract

```
Characters predicted 35101.00
Errors              250.00
OCR time            1188.49
Page                13.00
OCR time per page   91.42
```

	Penalty	Throughput
0	0	29.53
1	1	29.32
2	2	29.11
3	3	28.90
4	4	28.69
5	5	28.48
6	6	28.27
7	7	28.06
8	8	27.85
9	9	27.64

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Accuracy by Character Class in EasyOCR/Contract

```
Characters predicted 35101
Errors 250
```

	Class_type	Count_predicted	Count_error	Accuracy
0	Lowercase	31667	63	99.80
1	Uppercase	1976	11	99.44
2	Number	553	64	88.43
3	Symbol	905	112	87.62

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Accuracy by frequency in EasyOCR/Contract

	Character	Count_predicted	Count_error	Accuracy_by_frequency
0	"	16	0	100.00
1	#	12	4	66.67
2	\$	7	6	14.29
3	%	1	0	100.00
4	'	93	4	95.70
5	(	203	14	93.10
6	)	203	7	96.55
7	*	16	10	37.50
8	,	228	39	82.89
9	/	35	21	40.00
10	0	61	12	80.33
11	1	133	14	89.47
12	2	99	12	87.88
13	3	35	3	91.43

14	4	47	8	82.98
15	5	49	5	89.80
16	6	47	1	97.87
17	7	41	8	80.49
18	8	19	0	100.00
19	9	22	1	95.45
20	:	23	3	86.96
21	;	8	0	100.00
22	=	4	3	25.00
23	@	2	0	100.00
24	A	87	6	93.10
25	B	42	0	100.00
26	C	253	0	100.00
27	D	86	0	100.00
28	E	143	0	100.00
29	F	81	0	100.00
30	G	48	0	100.00
31	H	60	0	100.00
32	I	126	2	98.41
33	K	50	0	100.00
34	L	22	0	100.00
35	M	46	0	100.00
36	N	120	0	100.00
37	O	113	2	98.23
38	P	121	0	100.00
39	Q	24	0	100.00
40	R	157	0	100.00
41	S	126	0	100.00
42	T	166	1	99.40
43	U	13	0	100.00
44	V	20	0	100.00
45	W	52	0	100.00
46	X	6	0	100.00
47	Y	14	0	100.00
48	[	22	0	100.00
49	]	18	1	94.44
50	a	2364	6	99.75
51	b	442	1	99.77
52	c	1216	1	99.92
53	d	1176	0	100.00
54	e	4370	0	100.00
55	f	899	2	99.78
56	g	500	8	98.40
57	h	1299	0	100.00
58	i	2395	1	99.96
59	j	49	1	97.96
60	k	65	0	100.00
61	l	909	3	99.67
62	m	883	0	100.00
63	n	2385	1	99.96
64	o	2671	21	99.21
65	p	951	0	100.00
66	q	47	0	100.00
67	r	2363	5	99.79
68	s	1975	1	99.95
69	t	2918	0	100.00
70	u	686	0	100.00

71	v	269	0	100.00
72	w	211	10	95.26
73	x	74	0	100.00
74	y	547	2	99.63
75	z	3	0	100.00
76	{	7	0	100.00
77	}	7	0	100.00

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Grouped error in EasyOCR/Contract

Character	Predicted	Count_error
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#	"	4
\$	S	5
	{}	1
'	=	2
	{}	2
(	'	1
	(i	1
	0	1
	{}	11
)	,	1
	{}	6
*	#	3
	{}	7
,	;	35
	=	1
	{}	3
/	'	1
	,	1
	N	1
	L	7
	{}	11
0	0	12
1	!	1
	"	1
	'	3
	I	2
	i	1
	{}	6
2	?	2
	Z	7
	z	1
	{}	2
3	I	1
	a	1
	{}	1
4	t	1
	{}	7
5	S	4
	{}	1
6	{}	1
7	"	1
	Z	1
	{}	6
9	'	1
:	=	1

	{}	2
=	{}	3
A	{}	6
I	V	1
	{}	1
0	Q	2
T	{}	1
]	{}	1
a	{}	6
b	{}	1
c	{}	1
f	i	1
	{}	1
g	a	3
	q	5
i	{}	1
j	i	1
l	I	1
	J	1
	L	1
n	o	1
o	0	6
	0	9
	q	1
	{}	5
r	{}	5
s	\$	1
w	W	10
y	v	2

Note: {} indicates no prediction made by the OCR engine  
Number of missed prediction: 99

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Error table with prediction confidence for EasyOCR/Contract

	Character	Predicted	OCR confidence	
0		3	a	24.0
1		g	q	28.7
2		g	q	28.7
3		y	v	28.7
4		o	q	28.7
5		w	W	35.5
6		w	W	35.5
7		w	W	35.5
8		,	;	41.4
9		g	q	45.4
10		l	J	45.4
11		l	L	45.4
12		j	i	45.4
13		y	v	45.4
14		g	q	45.4
15		,	;	46.9
16		,	;	47.2
17		w	W	48.4
18		w	W	48.4
19		w	W	48.4
20		w	W	48.6

21	w	W	48.6
22	w	W	48.6
23	o	O	49.2
24	'	=	49.9
25	o	0	52.2
26	o	0	52.2
27	,	=	52.9
28	'	=	54.8
29	,	;	56.8
30	5	S	57.3
31	0	0	57.3
32	(	(i	58.2
33	,	;	58.7
34	,	;	59.0
35	5	S	59.3
36	0	Q	59.7
37	0	Q	59.7
38	o	0	59.8
39	,	;	60.2
40	,	;	60.2
41	,	;	60.7
42	/	L	61.0
43	5	S	61.2
44	2	?	61.5
45	o	0	61.8
46	n	o	62.1
47	s	\$	62.3
48	o	0	62.5
49	0	0	62.7
50	,	;	62.8
51	,	;	63.5
52	\$	S	63.6
53	0	0	63.6
54	0	0	63.6
55	0	0	63.6
56	0	0	63.6
57	0	0	63.6
58	,	;	64.4
59	/	,	64.5
60	o	0	64.6
61	o	0	64.8
62	1	!	65.1
63	1	"	65.1
64	,	;	66.2
65	/	L	66.2
66	o	0	66.6
67	,	;	66.6
68	,	;	66.7
69	/	L	66.7
70	3	I	67.1
71	#	"	67.1
72	1	'	67.3
73	l	I	67.3
74	2	?	67.3
75	,	;	67.4
76	#	"	67.5
77	/	N	67.7

78	o	0	67.8
79	,	;	68.4
80	,	;	68.4
81	f	i	68.7
82	(	0	68.9
83	2	z	70.3
84	/	l	70.6
85	/	l	70.9
86	,	;	70.9
87	,	;	71.2
88	#	"	73.3
89	1	'	73.3
90	g	a	73.4
91	\$	S	73.6
92	,	;	74.1
93	7	"	74.3
94	w	W	74.3
95	4	t	74.6
96	,	;	74.7
97	,	;	74.7
98	,	;	75.0
99	1	i	75.1
100	/	l	75.3
101	,	;	75.4
102	o	0	76.1
103	,	;	76.7
104	o	0	77.0
105	,	;	77.1
106	o	0	77.4
107	,	;	78.1
108	1	I	79.4
109	I	V	79.8
110	/	l	80.2
111	#	"	80.8
112	\$	S	80.9
113	\$	S	80.9
114	,	;	81.1
115	:	=	82.2
116	,	;	82.3
117	,	;	82.5
118	g	a	82.6
119	g	a	82.6
120	g	q	82.6
121	2	Z	83.8
122	2	Z	84.5
123	1	'	84.8
124	o	0	84.8
125	)	,	84.8
126	,	;	85.5
127	o	0	85.8
128	1	I	86.6
129	2	Z	87.2
130	,	;	87.6
131	2	Z	87.6
132	2	Z	87.9
133	/	'	88.1
134	5	S	88.1

135	,	;	88.9
136	0	0	89.7
137	0	0	89.7
138	\$	S	89.7
139	0	0	89.7
140	0	0	89.7
141	0	0	89.7
142	(	'	93.7
143	*	#	93.8
144	*	#	93.8
145	*	#	93.8
146	9	'	95.1
147	2	Z	95.6
148	2	Z	97.8
149	,	;	97.9
150	7	Z	99.3

Average confidence: 68.24

Process finished with exit code 0