

## LAMPIRAN

### Source Code panggil 1 image hasil:

```
I = imread ("C:\KULIAH\SEMESTER 7\TUGAS
AKHIR\SPLIT_DATASET_TA\IMAGE\a (26).png");
C = semanticseg(I, net);
B = labeloverlay(I,C, 'Transparency',0.4)
%figure,imshow(B)
expectedResult = imread("C:\KULIAH\SEMESTER 7\TUGAS
AKHIR\SPLIT_DATASET_TA\LABEL\a (26).png");
actual = uint8(C);
expected = uint8(expectedResult);
figure,imshowpair(actual, expected)
iou = jaccard(C,expectedResult);
T(i,:)=num2cell(iou');p
```

### Hasil Training Dataset:

Epoch	Iteration	Time Elapsed (hh :mm :ss)	Mini -batch Accuracy	Mini -batch Loss	Base Learning Rate
1	1	00:01:14	25.57%	9.5667	0.0010
1	10	00:13 :05	91.82%	1.2123	0.0010
1	20	00:26:12	90.51%	0.8400	0.0010
1	30	00:39:00	92.62%	1.0382	0.0010
1	40	00:52:07	91.42%	0.3443	0.0010
1	50	01:05:01	92.80%	0.2460	0.0010
1	60	01:18:12	92.90%	0.1936	0.0010
1	70	01:31 :09	91.41%	0.2054	0.0010
1	80	01:44:04	93.23%	0.2331	0.0010
2	90	01:57:01	92.07%	0.2182	0.0010
2	100	02:09:54	92.95%	0.1773	0.0010
2	110	02:22:52	94.94%	0.1923	0.0010
2	120	02:35:58	92.56%	0.1811	0.0010
2	130	02:48:58	90.44%	0.1994	0.0010

<b>Epoch</b>	<b>Iteration</b>	<b>Time Elapsed (hh :mm :ss)</b>	<b>Mini -batch Accuracy</b>	<b>Mini -batch Loss</b>	<b>Base Learning Rate</b>
2	140	03 :02:00	92.85%	0.1788	0.0010
2	150	03 :14:56	93 .36%	0.1732	0.0010
2	160	03 :27:54	93.12%	0.1515	0.0010
2	170	03 :40:59	93 .93%	0.1333	0.0010
3	180	03 :54:00	93.99%	0.1388	0.0010
3	190	04:06:56	92.75%	0.1468	0.0010
3	200	04:19 :58	90.10%	0.1967	0.0010
3	210	04:33 :00	94.45%	0.1417	0.0010
3	220	04:46:04	92.65%	0.1897	0.0010
3	230	04:59:08	91.03%	0.2131	0.0010
3	240	05:12:22	93.75%	0.1948	0.0010
3	250	05:25:32	93 .44%	0.1470	0.0010
3	260	05:38:34	96.02%	0.1014	0.0010
4	270	05:51:43	94.84%	0.1241	0.0010
4	280	06:04:42	93 .38%	0.1832	0.0010
4	290	06:17:47	90.87%	0.2115	0.0010
4	300	06:30:55	92.13%	0.2151	0.0010
4	310	06:44:01	95.14%	0.1090	0.0010
4	320	06:57:13	94.61%	0.1275	0.0010
4	330	07:10:04	94.66%	0.1211	0.0010
4	340	07:23 :10	89.51%	0.3025	0.0010
5	350	07:36:15	94.27%	0.1325	0.0010
5	360	07:49:16	94.84%	0.1210	0.0010
5	370	08:02:20	95.30%	0.1136	0.0010
5	380	08:15:22	94.05%	0.1451	0.0010
5	390	08:28:31	93.97%	0.1343	0.0010

<b>Epoch</b>	<b>Iteration</b>	<b>Time Elapsed (hh :mm :ss)</b>	<b>Mini -batch Accuracy</b>	<b>Mini -batch Loss</b>	<b>Base Learning Rate</b>
5	400	08:41:38	94.95%	0.1176	0.0010
5	410	08:54:49	97.58%	0.0648	0.0010
5	420	09:07:52	96.46%	0.0953	0.0010
5	430	09:20:47	95.58%	0.0965	0.0010
6	440	09:33 :39	94.87%	0.1238	0.0010
6	450	09:47:10	95.83%	0.1088	0.0010
6	460	10:00:37	94.19%	0.1299	0.0010
6	470	10:13 :16	96.61%	0.0936	0.0010
6	480	10:26:06	96.98%	0.0848	0.0010
6	490	10:39 :06	93.26%	0.1745	0.0010
6	500	10:51:54	95.81%	0.1379	0.0010
6	510	11 :04:45	96.28%	0.1023	0.0010
6	520	11 :17:39	95.47%	0.1291	0.0010
7	530	11 :30:33	95.53%	0.1136	0.0010
7	540	11 :43 :13	96.05%	0.0977	0.0010
7	550	11 :56:06	95.92%	0.1147	0.0010
7	560	12:08:52	88.32%	0.1997	0.0010
7	570	12:21:52	96.07%	0.0865	0.0010
7	580	12:34:54	98.00%	0.0620	0.0010
7	590	12:47:56	95.41%	0.1182	0.0010
7	600	13 :01:00	91.13%	0.1925	0.0010
8	610	13 :13:50	96.87%	0.0839	0.0010
8	620	13 :26:51	97.35%	0.0766	0.0010
8	630	13 :39 :53	96.95%	0.0799	0.0010
8	640	13 :52 :43	95.68%	0.1090	0.0010

<b>Epoch</b>	<b>Iteration</b>	<b>Time Elapsed (hh :mm :ss)</b>	<b>Mini -batch Accuracy</b>	<b>Mini -batch Loss</b>	<b>Base Learning Rate</b>
8	650	14:05:39	97.33%	0.0714	0.0010
8	660	14:18:34	96.79%	0.0813	0.0010
8	670	14:31 :33	96.82%	0.0837	0.0010
8	680	14:44:32	96.14%	0.0959	0.0010
8	690	14:57:37	97.78%	0.0535	0.0010
9	700	15:10:38	89.96%	0.2019	0.0010
9	710	15:23 :17	98.27%	0.0463	0.0010
9	720	15:36:12	97.72%	0.0596	0.0010
9	730	15:49:04	97.17%	0.0732	0.0010
9	740	16:01:52	96.34%	0.0896	0.0010
9	750	16:14:36	95.94%	0.1004	0.0010
9	760	16:27:30	97.69%	0.0578	0.0010
9	770	16:40:11	96.95%	0.0721	0.0010
9	780	16:53 :14	96.69%	0.0869	0.0010
10	790	17:06:00	97.65%	0.0567	0.0010
10	800	17:18:GO	9G.05%	0.1320	0.0010
10	810	17:31 :39	98.22%	0.0458	0.0010
10	820	17:44:34	97.49%	0.0633	0.0010
10	830	17:57:17	96.84%	0.0784	0.0010
10	840	18:10:11	97.20%	0.0642	0.0010
10	850	18:23 :06	96.57%	0.0917	0.0010
10	860	18:36:06	98.26%	0.0509	0.0010
10	870	18:49:04	97.46%	0.0711	0.0010
11	880	19:01:53	98.68%	0.0431	0.0010
11	890	19:14:41	97.99%	0.0602	0.0010

<b>Epoch</b>	<b>Iteration</b>	<b>Time Elapsed (hh :mm :ss)</b>	<b>Mini -batch Accuracy</b>	<b>Mini -batch Loss</b>	<b>Base Learning Rate</b>
11	900	19 :27:30	97.07%	0.0721	0.0010
11	910	19:40:25	97.71%	0.0693	0.0010
11	920	19:53 :29	97.25%	0.0664	0.0010
11	930	20:06:28	97.55%	0.0672	0.0010
11	940	20:19 :09	97.81%	0.0641	0.0010
11	950	20:32:05	92.13%	0.1795	0.0010
12	960	20:44:51	97.29%	0.0746	0.0010
12	970	20:57:48	97.94%	0.0510	0.0010
12	980	21:10:40	94.13%	0.1564	0.0010
12	990	21:23 :40	97.85%	0.0604	0.0010
12	1000	21:36:30	97.91%	0.0523	0.0010
12	1010	21:49:38	97.05%	0.0777	0.0010
12	1020	22:02:20	97.33%	0.0894	0.0010
12	1030	22:15:03	98.25%	0.0455	0.0010
12	1040	22:27:59	98.39%	0.0396	0.0010
13	1050	22:40:51	98.38%	0.0436	0.0010
13	1060	22:53 :45	98.82%	0.0351	0.0010
13	1070	23 :06:28	98.12%	0.0458	0.0010
13	1080	23 :19:21	98.19%	0.0491	0.0010
13	1090	23 :32:04	96.86%	0.0817	0.0010
13	1100	23 :44:58	97.52%	0.0639	0.0010
13	1110	23 :57:45	89.95%	0.1986	0.0010
13	1120	24:10:30	98.91%	0.0339	0.0010
13	1130	24:23 :21	99 .16%	0.0276	0.0010
14	1140	24:36:21	98.43%	0.0473	0.0010

<b>Epoch</b>	<b>Iteration</b>	<b>Time Elapsed (hh :mm :ss)</b>	<b>Mini -batch Accuracy</b>	<b>Mini -batch Loss</b>	<b>Base Learning Rate</b>
14	1150	24:49:09	97.00%	0.0809	0.0010
14	1160	25:02:15	89.46%	0.1888	0.0010
14	1170	20:10:22	97.65%	0.0601	0.0010
14	1180	25:28:39	98.88%	0.0324	0.0010
14	1190	25:41:45	98.97%	0.0332	0.0010
14	1200	25:54:50	98.25%	0.0498	0.0010
14	1210	26:07:38	83.42%	0.3069	0.0010
15	1220	26:20:47	98.00%	0.0614	0.0010
15	1230	26:33:44	98.26%	0.0454	0.0010
15	1240	26:46:45	97.89%	0.0535	0.0010
15	1250	26:59:45	98.00%	0.0542	0.0010
15	1260	27:12:43	98.05%	0.053	0.0010
15	1270	27:25:52	98.77%	0.0368	0.0010
15	1280	27:39:00	98.74%	0.0367	0.0010
15	1290	27:52:08	98.33%	0.0460	0.0010
15	1300	28:05:11	98.78%	0.0358	0.0010
16	1310	28:18:18	97.59%	0.0623	0.0010
16	1320	28:31:10	97.94%	0.0569	0.0010
16	1330	28:44:16	97.57%	0.0617	0.0010
16	1340	28:57:23	98.99%	0.0314	0.0010
16	1350	29:10:25	99.04%	0.0258	0.0010
16	1360	29:23:40	92.18%	0.1735	0.0010
16	1370	29:36:17	95.69%	0.1147	0.0010
16	1380	29:49:05	98.46%	0.0420	0.0010
16	1390	30:02:16	97.94%	0.0585	0.0010

<b>Epoch</b>	<b>Iteration</b>	<b>Time Elapsed (hh :mm :ss)</b>	<b>Mini -batch Accuracy</b>	<b>Mini -batch Loss</b>	<b>Base Learning Rate</b>
17	1400	30:15:03	98.15%	0.0503	0.0010
17	1410	30:28 :01	98.17%	0.0451	0.0010
17	1420	30:41 :05	99.04%	0.0309	0.0010
17	1430	30:54 :03	90.02%	0.1816	0.0010
17	1440	31 :07 :06	98.58%	0.0347	0.0010
17	1450	31 :20 :09	99.00%	0.0289	0.0010
17	1460	31 :33 :02	97.44%	0.0643	0.0010
17	1470	31 :45:56	91.18%	0.1589	0.0010
18	1480	31 :58 :54	98.18%	0.0505	0.0010
18	1490	32:11 :38	98.91%	0.0316	0.0010
18	1500	32:24 :35	98.09%	0.0510	0.0010
18	1510	32:37 :33	98.21%	0.0513	0.0010
18	1520	32:50 :35	98.98%	0.0327	0.0010
18	1530	33 :03 :30	98.41%	0.0393	0.0010
18	1540	33 :16 :15	98.58%	0.0399	0.0010
18	1550	33 :29 :10	98.03%	0.0533	0.0010
18	1560	33 :42:12	99.15%	0.0248	0.0010
19	1570	33 :55:09	91.54%	0.1677	0.0010
19	1580	34:08 :04	98.81%	0.0335	0.0010
19	1590	34:21 :03	99.30%	0.0202	0.0010
19	1600	34:34 :00	98.20%	0.0490	0.0010
19	1610	34:46:54	98.80%	0.0351	0.0010
19	1620	34:59:48	97.42%	0.0669	0.0010
19	1630	35:12:40	98.68%	0.0341	0.0010
19	1640	35:25:35	98.91%	0.0297	0.0010

<b>Epoch</b>	<b>Iteration</b>	<b>Time Elapsed (hh :mm :ss)</b>	<b>Mini -batch Accuracy</b>	<b>Mini -batch Loss</b>	<b>Base Learning Rate</b>
19	1650	35:38:26	98.07%	0.0547	0.0010
20	1660	35:51:18	99.09%	0.0288	0.0010
20	1670	36:04:17	97.21%	0.0746	0.0010
20	1680	36:17:00	98.87%	0.0288	0.0010
20	1690	36:29:59	98.65%	0.0341	0.0010
20	1700	36:42:56	97.84%	0.0550	0.0010
20	1710	36:55:58	98.46%	0.0376	0.0010
20	1720	37:08:50	97.89%	0.0550	0.0010
20	1730	37:21:46	98.87%	0.0310	0.0010
20	1740	37:34:46	98.16%	0.0525	0.0010