




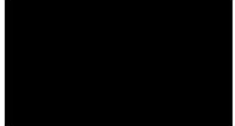







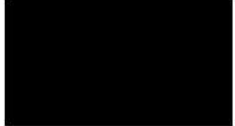

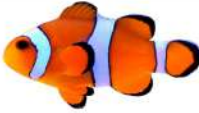

















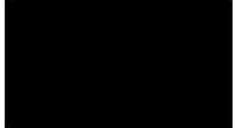
LAMPIRAN A

Source Code

Source code selengkapnya termasuk dengan *data* bisa dilihat di (<https://github.com/EzraelVio/Fish-Viola-Jones>) dibawah lisense *GNU General Public License v3.0*. *Prototype System* Klasifikasi Genus Ikan Menggunakan *Viola-Jones Featues Extraction* dan *Boosting* berbasis *Decision Tree*.



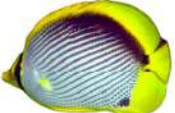
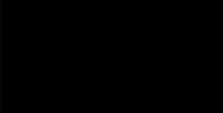

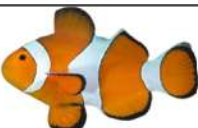





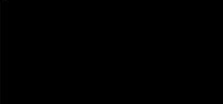



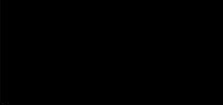


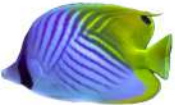
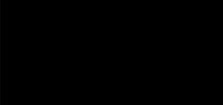



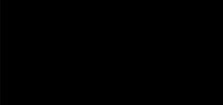



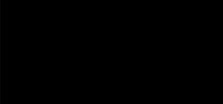



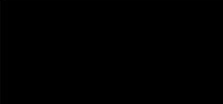


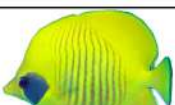


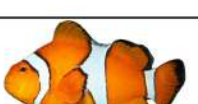
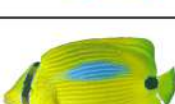

LAMPIRAN B
Tabel data *training*

Tabel 2.1: Gambar-gambar yang digunakan untuk training

No.	Abudefduf	Amphiprion	Chaetodon	Negative
1				
2				
3				
4				
5				
6				
7				
8				









Continued on next page

Tabel 2.1 – continued from previous page

No.	Abudefduf	Amphiprion	Chaetodon	Negative
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				

Continued on next page

Tabel 2.1 – continued from previous page


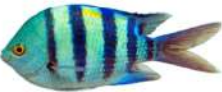






No.	Abudefduf	Amphiprion	Chaetodon	Negative
19				
20				

LAMPIRAN C











Tabel pengolahan data gambar validasi

Pada kolom *Window* terdapat koordinat klasifikasi dan hasil klasifikasi.
[6,110] class: 1 berarti, 'diklasifikasikan di $x = 6$, $y = 110$ dengan hasil klasifikasi 1'.

Tabel 3.1: Hasil prediksi menggunakan *cascade* dan *sliding window*





Image	Window 1	Window 2	Window 3	Final Result
	[6,110] class: 1	[116,25] class: 1	[233,41] class: 1	Abudefduf
	[1,109] class: 3	[116,30] class: 2	[233,41] class: 1	None
	[7,102] class: 3	[116,33] class: 2	[233,55] class: 2	Abudefduf
	[5,105] class: 3	[116,44] class: 3	[233,55] class: 1	Chaetodon
	[5,102] class: 2	[116,39] class: 1	[233,64] class: 2	Amphiprion
	[8,107] class: 1	[116,23] class: 1	[233,40] class: 1	Abudefduf
	[3,108] class: 1	[116,36] class: 2	[233,55] class: 1	Chaetodon
	[23,110] class: 1	[116,10] class: 2	[233,35] class: 2	Amphiprion
Continued on next page				

Tabel 3.1 – continued from previous page

Image	Window 1	Window 2	Window 3	Final Result
	[7,103] class: 2	[116,22] class: 3	[233,45] class: 1	None
	[24,111] class: 1	[116,11] class: 1	[233,22] class: 1	Abudefduf
	[10,102] class: 2	[116,17] class: 2	[233,40] class: 3	Abudefduf
	[3,108] class: 1	[116,29] class: 2	[233,40] class: 3	None
	[6,108] class: 1	[116,42] class: 1	[233,54] class: 1	Abudefduf
	[6,108] class: 1	[116,42] class: 3	[233,54] class: 3	Chaetodon
	[3,103] class: 1	[116,33] class: 3	[233,51] class: 3	Chaetodon
	[0,110] class: 1	[116,26] class: 2	[233,59] class: 3	None
	[6,102] class: 1	[116,32] class: 2	[233,50] class: 1	Abudefduf
	[5,109] class: 1	[116,28] class: 1	[233,44] class: 1	Abudefduf











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Tabel 3.1 – continued from previous page








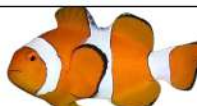


Image	Window 1	Window 2	Window 3	Final Result
	[8,99] class: 1	[116,30] class: 1	[233,59] class: 1	Abudefduf
	[5,106] class: 1	[116,27] class: 2	[233,35] class: 1	Abudefduf
	[8,102] class: 3	[117,69] class: 3	[233,54] class: 1	Chaetodon
	[16,106] class: 1	[116,23] class: 1	[233,28] class: 1	Abudefduf
	[7,112] class: 1	[116,33] class: 2	[233,58] class: 3	None
	[10,108] class: 1	[116,31] class: 3	[233,42] class: 1	Abudefduf
	[3,106] class: 3	[116,29] class: 1	[233,47] class: 2	None
	[13,89] class: 1	[116,12] class: 2	[233,30] class: 2	Amphiprion
	[18,98] class: 1	[116,26] class: 2	[233,35] class: 3	None
	[15,95] class: 1	[116,13] class: 2	[233,27] class: 3	None

Continued on next page

Tabel 3.1 – continued from previous page

Image	Window 1	Window 2	Window 3	Final Result
	[16,91] class: 1	[116,0] class: 1	[233,71] class: 1	Abudefduf
	[16,95] class: 2	[116,23] class: 2	[233,43] class: 3	Amphiprion
	[10,87] class: 1	[116,9] class: 1	[233,41] class: 1	Abudefduf
	[19,94] class: 1	[116,31] class: 1	[233,43] class: 1	Abudefduf
	[17,91] class: 1	[116,0] class: 1	[233,73] class: 1	Abudefduf
	[21,86] class: 1	[116,17] class: 2	[233,35] class: 1	Abudefduf
	[20,89] class: 2	[116,20] class: 2	[233,34] class: 2	Amphiprion
	[15,91] class: 1	[116,10] class: 1	[233,34] class: 1	Abudefduf
	[10,55] class: 1	[116,17] class: 2	[233,39] class: 3	None
	[17,93] class: 2	[116,25] class: 2	[233,46] class: 1	Amphiprion
Continued on next page				

Tabel 3.1 – continued from previous page











Image	Window 1	Window 2	Window 3	Final Result
	[18,89] class: 1	[116,10] class: 1	[233,28] class: 1	Abudefduf
	[14,93] class: 1	[116,25] class: 2	[233,33] class: 1	Abudefduf
	[21,94] class: 2	[116,9] class: 1	[233,19] class: 1	Abudefduf
	[15,96] class: 2	[116,22] class: 2	[233,37] class: 3	Amphiprion
	[16,91] class: 1	[116,25] class: 2	[233,37] class: 3	None
	[21,98] class: 3	[116,10] class: 1	[233,36] class: 1	Abudefduf
	[18,92] class: 1	[116,8] class: 1	[233,60] class: 2	Abudefduf
	[19,95] class: 1	[116,0] class: 1	[233,11] class: 1	Abudefduf
	[14,97] class: 3	[116,32] class: 2	[233,33] class: 1	None
	[19,88] class: 2	[116,15] class: 2	[233,28] class: 1	Amphiprion

Continued on next page

Tabel 3.1 – continued from previous page




Image	Window 1	Window 2	Window 3	Final Result
	[12,89] class: 3	[116,23] class: 1	[233,72] class: 1	Abudefdud
	[14,87] class: 2	[116,12] class: 1	[233,36] class: 1	Abudefdud
	[32,116] class: 2	[116,19] class: 1	[233,19] class: 1	Abudefdud
	[35,118] class: 2	[116,29] class: 1	[233,40] class: 3	None
	[32,115] class: 1	[116,30] class: 1	[233,40] class: 3	Abudefdud
	[66,150] class: 0	[116,57] class: 1	[233,28] class: 1	Abudefdud
	[37,115] class: 1	[116,28] class: 2	[233,31] class: 2	Amphiprion
	[32,119] class: 2	[116,26] class: 2	[233,32] class: 1	Amphiprion
	[30,117] class: 1	[116,24] class: 2	[233,31] class: 1	Abudefdud
	[36,116] class: 2	[116,17] class: 2	[233,21] class: 3	Amphiprion
Continued on next page				

Tabel 3.1 – continued from previous page

Image	Window 1	Window 2	Window 3	Final Result
	[31,119] class: 1	[116,18] class: 1	[233,14] class: 2	Abudefduf
	[32,115] class: 1	[116,27] class: 2	[233,30] class: 1	Abudefduf
	[32,119] class: 1	[116,23] class: 1	[233,15] class: 1	Abudefduf
	[34,113] class: 1	[116,21] class: 1	[233,40] class: 3	Abudefduf
	[20,110] class: 1	[116,21] class: 1	[233,20] class: 2	Abudefduf
	[33,115] class: 2	[116,33] class: 2	[233,30] class: 1	Amphiprion
	[35,117] class: 1	[116,26] class: 2	[233,31] class: 2	Amphiprion
	[34,114] class: 1	[116,28] class: 1	[233,38] class: 1	Abudefduf
	[43,115] class: 1	[116,23] class: 1	[233,41] class: 1	Abudefduf
	[36,117] class: 1	[116,23] class: 1	[233,42] class: 1	Abudefduf

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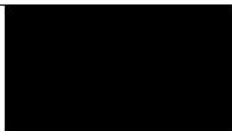















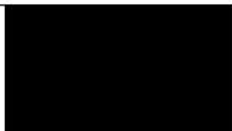




Tabel 3.1 – continued from previous page

Image	Window 1	Window 2	Window 3	Final Result
	[34,116] class: 1	[116,21] class: 1	[233,18] class: 1	Abudefduf
	[32,117] class: 2	[116,40] class: 2	[233,28] class: 1	Amphiprion
	[29,115] class: 1	[116,30] class: 1	[233,22] class: 1	Abudefduf
	[35,117] class: 2	[116,22] class: 1	[233,41] class: 1	Abudefduf
	[34,116] class: 1	[116,24] class: 2	[233,20] class: 2	Amphiprion
	[40,118] class: 1	[116,22] class: 1	[233,34] class: 2	Abudefduf
	[40,118] class: 1	[116,12] class: 1	[233,67] class: 1	Abudefduf





LAMPIRAN D

Gambar Pelatihan Tes Lapangan

Tabel 4.1: Gambar-gambar yang digunakan untuk *training* tes lapangan

No.	Emas	Lele	Nila	Negative
1				
2				
3				
4				
5				
6				
7				
8				
Continued on next page				




Tabel 4.1 – continued from previous page

No.	Emas	Lele	Nila	Negative
9				

LAMPIRAN E

Tabel pengolahan data gambar validasi tes lapangan

Tabel 5.1: Hasil prediksi menggunakan *cascade* dan *sliding window*

Image	Window 1	Window 2	Window 3	Final Result
	[7,84] class: 1	[116,45] class: 1	[233,68] class: 1	Ikan Emas
	[17,104] class: 1	[116,40] class: 1	[233,50] class: 1	Ikan Emas
	[24,31] class: 1	[116,64] class: 1	[233,81] class: 3	Ikan Emas