

# GeoELAN A4 Guide, v2.0, 2022-11-05

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<code>geoelan --help</code>	<b>General help</b>
<code>geoelan COMMAND --help</code>	Help for specific COMMAND, e.g. <code>geoelan eaf2geo --help</code>

	Workflow	Example
1.	Concatenate media files, generate ELAN-file	<code>geoelan virb2eaf --video VIRB0001-1.MP4 --indir DIR_TO_SEARCH/ --outdir OUTDIR/</code>
2.	Annotate the generated ELAN-file. One tier for each event type.	
3.	Geo-reference annotations on selected tier. Outputs KML/GeoJSON.	<code>geoelan eaf2geo --eaf VIRB0001-1.eaf --fit FITFILE.fit --geoshape point-single</code>

Command	Description	Example
<code>gopro2eaf</code>	[GoPro] Generate ELAN-file with geo-tier	<code>geoelan gopro2eaf -v VIDEO.MP4 -i INDIR/ -o OUTDIR/ --geo-tier</code>
<code>virb2eaf</code>	[VIRB] Generate ELAN-file with geo-tier	<code>geoelan virb2eaf -v VIDEO.MP4 -i INDIR/ -o OUTDIR/ --geo-tier</code>
<code>eaf2geo</code>	Geo-reference annotations and generate KML-file	<code>geoelan eaf2geo -e ELANFILE.eaf -f FITFILE.fit --geoshape point-single</code>
<code>locate</code>	Locate and match MP4 and/or FIT-files	<code>geoelan locate -i INDIR/ --csv</code>
<code>inspect</code>	Print the contents of a FIT/GPMF-file	<code>geoelan inspect -f FITFILE.fit --verbose</code> <code>geoelan inspect -g GOPRO_VIDEO.mp4 --verbose</code>
<code>manual</code>	View or save manual as PDF	<code>geoelan manual --pdf</code>

Argument	Description	Applicable to	Possible values
<code>--downsample</code>	Point output divisor (e.g. <b>10</b> : 7200 points → 720 points)	<code>gopro2eaf</code> , <code>virb2eaf</code> , <code>eaf2geo</code> , <code>inspect</code>	1 (default) to max number of logged points
<code>--geoshape</code>	Point/s or line/s in output KML	<code>eaf2geo</code>	See table below
<code>--cdata</code>	Extended information bubble in Google Earth	<code>eaf2geo</code>	

<code>geoshape</code> value	Description	Shape	Note
<code>point-all</code>	Points intersecting with an annotation will gain a description	Points	
<code>point-multi</code>	Points intersecting with an annotation will be exported	Points	
<code>point-single</code>	Each annotation will be averaged to a <i>single point</i>	Points	Ignores <code>--downsample</code>
<code>line-all</code>	Points intersecting with an annotation will gain a description	Line, continuous	
<code>line-multi</code>	Each annotation will be exported as a line	Line, broken-up	
<code>circle-2d</code>	Each annotation will generate a circle (c.f. <code>point-single</code> )	Circle	Ignores <code>--downsample</code>
<code>circle-3d</code>	Each annotation will generate a cylinder (c.f. <code>point-single</code> )	Circle	Ignores <code>--downsample</code>