

## GeoELAN A4 Guide, v1.1, 2021-03-07

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`geoelan --help` or `geoelan SUBCOMMAND --help`

General help or specific help for SUBCOMMAND, e.g. `geoelan eaf2geo --help`

Workflow	Example
1. Concatenate clips, extract audio, generate ELAN-file, locate FIT-file.	<code>geoelan cam2eaf --video VIRB0001-1.MP4 --indir INDIR/ --outdir OUTDIR/</code>
2. Annotate the generated ELAN-file. One tier for each event type.	
3. Geo-reference annotations on selected tier. Outputs KML-file.	<code>geoelan eaf2geo --eaf VIRB0001-1.eaf --fit FITFILE.fit --geoshape point-single</code>

Sub-command	Description	Example
<code>cam2eaf</code>	Generate an ELAN-file, and concatenated media files	<code>geoelan cam2eaf -v VIDEO.MP4 -i INDIR/ -o OUTDIR/ --geo-tier</code> Concatenate all clips for session starting with <code>VIDEO.MP4</code> in <code>INDIR</code> . Geo-tier in ELAN-file.
<code>eaf2geo</code>	Geo-reference annotations and generate KML-file	<code>geoelan eaf2geo -e ELANFILE.eaf -f FITFILE.fit --geoshape point-single</code> Generate KML-file, one point/annotation. No video specified so UUID is selected from list.
<code>match</code>	Locate and match VIRB clips and FIT-files	<code>geoelan match -i INDIR/ --csv</code> Match all VIRB clips in <code>INDIR/</code> with the corresponding FIT-file. Result saved as CSV-file.
<code>check</code>	Print an overview or the contents of a FIT-file	<code>geoelan check -f FITFILE.fit -g 160</code> Print all <code>gps_metadata</code> in <code>FITFILE.fit</code> , followed by a summary and all logged UUIDs.
<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. <code>10</code> : 7200 points → 720 points)	<code>cam2eaf</code> , <code>eaf2geo</code> , <code>check</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 value</code>	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>

<b>--geoshape value</b>	<b>Description</b>	<b>Shape</b>	<b>Note</b>
<b>line-all</b>	Points intersecting with an annotation will gain a description	Line, continuous	
<b>line-multi</b>	Each annotation will be exported as a line	Line, broken-up	