RGFA/RGFATools v.1.2 Cheatsheet (1/2)

Create graph	RGFA.new
from GFA file	RGFA.from_file("filename")
from string	string.to_rgfa
from string array (e.g.)	["H\tVN:i:1.0",
	"S\tA\t*\tLN:i:1200"].to_rgfa
Write GFA to file	gfa.to_file(filename)
Write GFA to standard output	puts gfa
Create deep copy	gfa.clone
Validate after manual edits	gfa.validate!
Output statistics (normal/compact)	puts gfa.info; puts gfa.info(true)
Turn off validations	gfa.turn_off_validations
Segments first	gfa.require_segments_first_order
Enable progress logging	gfa.enable_progress_logging
Name of all segments	gfa.segment_names
Name of all paths	gfa.path_names
All segments, links, paths, etc	gfa.segments; gfa.links; gfa.paths;
Iterate over segments, links, etc	gfa.each_segment { s }
Find segment	gfa.segment(segment_name)
exception if does not exist	<pre>gfa.segment!(segment_name)</pre>
Find path	<pre>gfa.path(path_name) (or: path!)</pre>
All paths through segment	gfa.paths_with(segment_name)
Find link	gfa.link([:S1,:E],[:S2,:B]) (or: link!)
(or, if multiple may exist)	gfa.links_between([:S1,:E],[:S2,:B])
All links of segment end	gfa.links_of([:S1,:E])
(also segment instead of name)	<pre>gfa.links_of([segment!(:S1),:E])</pre>
Target of all links	gfa.neighbours([:S1,:E])
Find containment	gfa.containment(container, contained)
	gfa.containment!(container, contained)
(or, if multiple may exist)	gfa.containments_between(c_ner, c_ned)
All containments for a segment	gfa.containing(contained)
	gfa.contained_in(container)
Add line (examples)	gfa << "H\tVZ:i:1.0"
	gfa << "S\ta\t*\tLN:i:1200"
Rename segment or path	gfa.rename("old", "new")
Segment coverage	s.coverage
Segment coverage (more accurate)	s.coverage(unit_length: avreadlen)
Segment K-mer coverage	s.coverage(count_tag: :KC)
Segment length	s.length
Other end of a link	link.other_end([s1,:E])
Other end of other end of link	link.other_end([s1,:E])
	.revert_end_type
Read req.field/tag value	segment.from; segment.LN
raise if tag not available	segment.LN!
tag string	segment.field_to_s(:LN)
Set/create custom tag (ab, Z type)	segment.ab = "value"
of i or B/i type	s.ab = 12; $s.ab = [1,2,3]$
of f or B/f type	s.ab = 12.0; s.ab = [1.2,2.3,3.0]
of J type (hash/array)	s.ab = {"a" => 12}; s.ab = ["a","b",1]

${\it RGFA/RGFATools~v.1.2~Cheatsheet~(2/2)}$

)
)
a