

atlas Reference Manual  
0.2.4r1

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# Chapter 1

## atlas Directory Hierarchy

### 1.1 atlas Directories

This directory hierarchy is sorted roughly, but not completely, alphabetically:

sources . . . . .	8
error . . . . .	3
gkmod . . . . .	4
interface . . . . .	5
io . . . . .	6
memory . . . . .	7
structure . . . . .	9
test . . . . .	11
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## Chapter 2

# atlas Directory Documentation

### 2.1 sources/error/ Directory Reference

#### Files

- file `error.cpp`
- file `error.h`
- file `kl_error.cpp`
- file `kl_error.h`

## 2.2 sources/gkmod/ Directory Reference

### Files

- file **blocks.cpp**
- file **blocks.h**
- file **blocks\_fwd.h**
- file **bruhat.cpp**
- file **bruhat.h**
- file **bruhat\_fwd.h**
- file **descents.h**
- file **descents\_fwd.h**
- file **involutions.cpp**
- file **involutions.h**
- file **involutions\_fwd.h**
- file **kgb.cpp**
- file **kgb.h**
- file **kgb\_fwd.h**
- file **kl.cpp**
- file **kl.h**
- file **kl\_fwd.h**
- file **klcomputations.cpp**
- file **klcomputations.h**
- file **klcomputations\_fwd.h**
- file **klsupport.cpp**
- file **klsupport.h**
- file **klsupport\_fwd.h**
- file **wgraph.cpp**
- file **wgraph.h**

## 2.3 sources/interface/ Directory Reference

### Files

- file `commands.cpp`
- file `commands.h`
- file `commands_fwd.h`
- file `emptyhelp.cpp`
- file `emptyhelp.h`
- file `emptymode.cpp`
- file `emptymode.h`
- file `helpmode.cpp`
- file `helpmode.h`
- file `input.cpp`
- file `input.h`
- file `input_noreadline.c`
- file `input_readline.c`
- file `io.cpp`
- file `io.h`
- file `main.cpp`
- file `mainhelp.cpp`
- file `mainhelp.h`
- file `mainmode.cpp`
- file `mainmode.h`
- file `realhelp.cpp`
- file `realhelp.h`
- file `realmode.cpp`
- file `realmode.h`
- file `special.cpp`
- file `special.h`
- file `version.h`

## 2.4 sources/io/ Directory Reference

### Files

- file **basic\_io.cpp**
- file **basic\_io.h**
- file **basic\_io\_def.h**
- file **block\_io.cpp**
- file **block\_io.h**
- file **cartan\_io.cpp**
- file **cartan\_io.h**
- file **complexredgp\_io.cpp**
- file **complexredgp\_io.h**
- file **complexredgp\_io\_fwd.h**
- file **interactive.cpp**
- file **interactive.h**
- file **interactive\_fwd.h**
- file **interactive\_lattice.cpp**
- file **interactive\_lattice.h**
- file **interactive\_lietype.cpp**
- file **interactive\_lietype.h**
- file **ioutils.cpp**
- file **ioutils.h**
- file **kgb\_io.cpp**
- file **kgb\_io.h**
- file **kl\_io.cpp**
- file **kl\_io.h**
- file **layout.h**
- file **poset\_io.cpp**
- file **poset\_io.h**
- file **prettyprint.cpp**
- file **prettyprint.h**
- file **prettyprint\_def.h**
- file **realform\_io.cpp**
- file **realform\_io.h**
- file **realredgp\_io.cpp**
- file **realredgp\_io.h**
- file **realredgp\_io\_fwd.h**
- file **realweyl.cpp**
- file **realweyl.h**
- file **realweyl\_fwd.h**
- file **realweyl\_io.cpp**
- file **realweyl\_io.h**
- file **wgraph\_io.cpp**
- file **wgraph\_io.h**

## 2.5 sources/memory/ Directory Reference

### Files

- file `allocator.cpp`
- file `allocator.h`
- file `allocator_def.h`
- file `pool.cpp`
- file `pool.h`
- file `stlset.h`
- file `stlvector.h`
- file `typenumber.cpp`
- file `typenumber.h`
- file `typestring.cpp`
- file `typestring.h`

## 2.6 sources/ Directory Reference

### Directories

- directory **error**
- directory **gkmod**
- directory **interface**
- directory **io**
- directory **memory**
- directory **structure**
- directory **test**
- directory **utilities**

## 2.7 sources/structure/ Directory Reference

### Files

- file **bitvector.h**
- file **bitvector\_def.h**
- file **bitvector\_fwd.h**
- file **cartan.cpp**
- file **cartan.h**
- file **cartan\_fwd.h**
- file **cartanclass.cpp**
- file **cartanclass.h**
- file **cartanclass\_fwd.h**
- file **complexredgp.cpp**
- file **complexredgp.h**
- file **complexredgp\_fwd.h**
- file **dynkin.cpp**
- file **dynkin.h**
- file **gradings.cpp**
- file **gradings.h**
- file **gradings\_fwd.h**
- file **lattice.cpp**
- file **lattice.h**
- file **lattice\_def.h**
- file **latticetypes.cpp**
- file **latticetypes.h**
- file **latticetypes\_fwd.h**
- file **lietype.cpp**
- file **lietype.h**
- file **lietype\_fwd.h**
- file **prerootdata.cpp**
- file **prerootdata.h**
- file **prerootdata\_fwd.h**
- file **realform.h**
- file **realredgp.cpp**
- file **realredgp.h**
- file **realredgp\_fwd.h**
- file **rootdata.cpp**
- file **rootdata.h**
- file **rootdata\_def.h**
- file **rootdata\_fwd.h**
- file **subquotient.h**
- file **subquotient\_def.h**
- file **subquotient\_fwd.h**
- file **tits.cpp**
- file **tits.h**
- file **tits\_fwd.h**
- file **topology.cpp**
- file **topology.h**
- file **tori.cpp**

- file `tori.h`
- file `tori_fwd.h`
- file `weyl.cpp`
- file `weyl.h`
- file `weyl_fwd.h`
- file `weylsize.cpp`
- file `weylsize.h`

## 2.8 sources/test/ Directory Reference

### Files

- file **kltest.cpp**
- file **kltest.h**
- file **test.cpp**
- file **test.h**
- file **testprint.cpp**
- file **testprint.h**
- file **testrun.cpp**
- file **testrun.h**

## 2.9 sources/utilities/ Directory Reference

### Files

- file **abelian.cpp**
- file **abelian.h**
- file **abelian2\_fwd.h**
- file **abelian\_fwd.h**
- file **arithmetic.cpp**
- file **arithmetic.h**
- file **arithmetic\_def.h**
- file **bitmap.cpp**
- file **bitmap.h**
- file **bitmap\_def.h**
- file **bitmap\_fwd.h**
- file **bits.cpp**
- file **bits.h**
- file **bitset.cpp**
- file **bitset.h**
- file **bitset\_def.h**
- file **bitset\_fwd.h**
- file **comparison.h**
- file **constants.cpp**
- file **constants.h**
- file **ctr\_iterator.h**
- file **graph.cpp**
- file **graph.h**
- file **intutils.h**
- file **intutils\_def.h**
- file **matrix.h**
- file **matrix\_def.h**
- file **matrix\_fwd.h**
- file **partition.cpp**
- file **partition.h**
- file **partition\_def.h**
- file **polynomials.h**
- file **polynomials\_def.h**
- file **polynomials\_fwd.h**
- file **poset.cpp**
- file **poset.h**
- file **poset\_fwd.h**
- file **set.h**
- file **setutils.cpp**
- file **setutils.h**
- file **setutils\_def.h**
- file **size.cpp**
- file **size.h**
- file **size\_def.h**
- file **smithnormal.h**
- file **smithnormal\_def.h**
- file **tags.h**

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