

Software development in Bioinformatics

Yeah! I've come up with a new tool

Ooh... It's already there



Web

Images

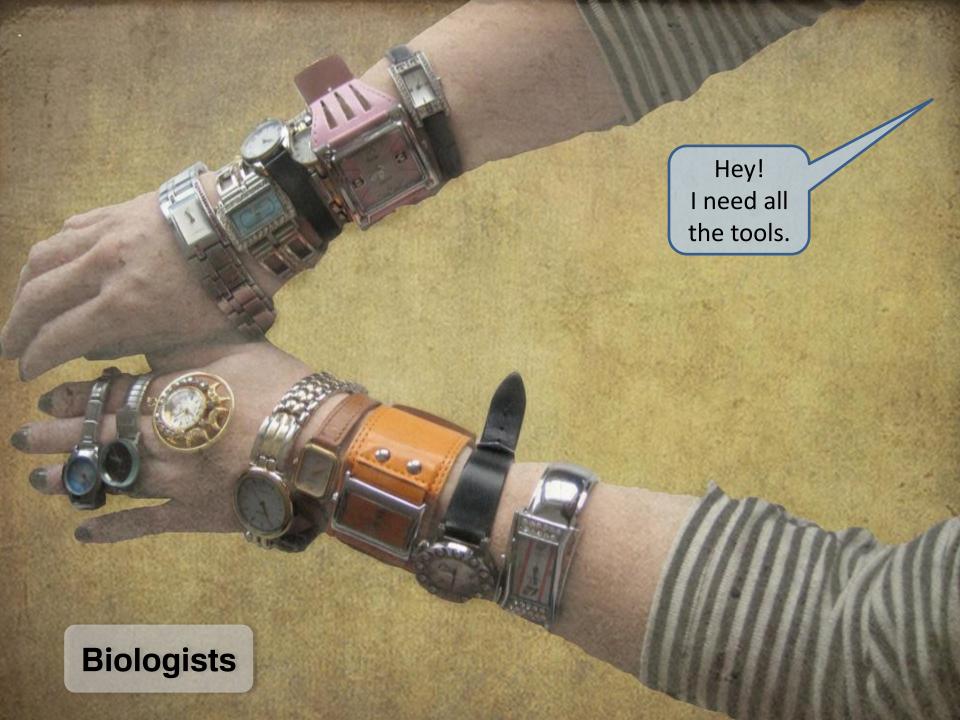
Maps

More ▼

About 68,700 results (0.27 seconds)







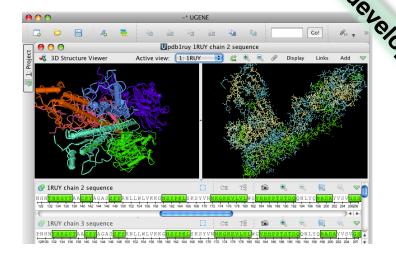


UGENE

15 TEB)

Sen. Source

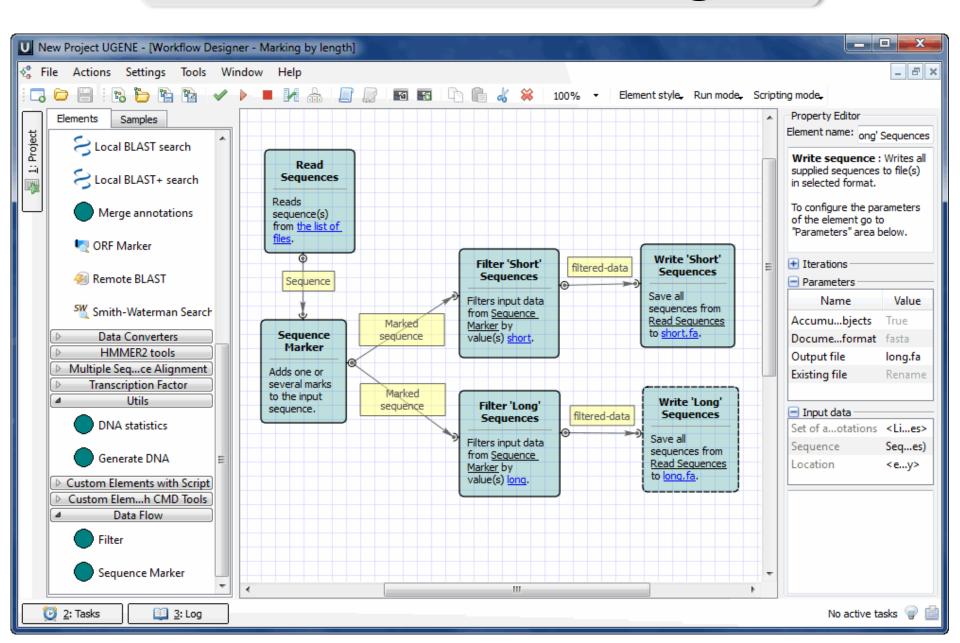
- Multiple Alignment: MUSCLE, Kalign, Clustal, Mafft, T-Coffee
- Ultra fast repeat finder

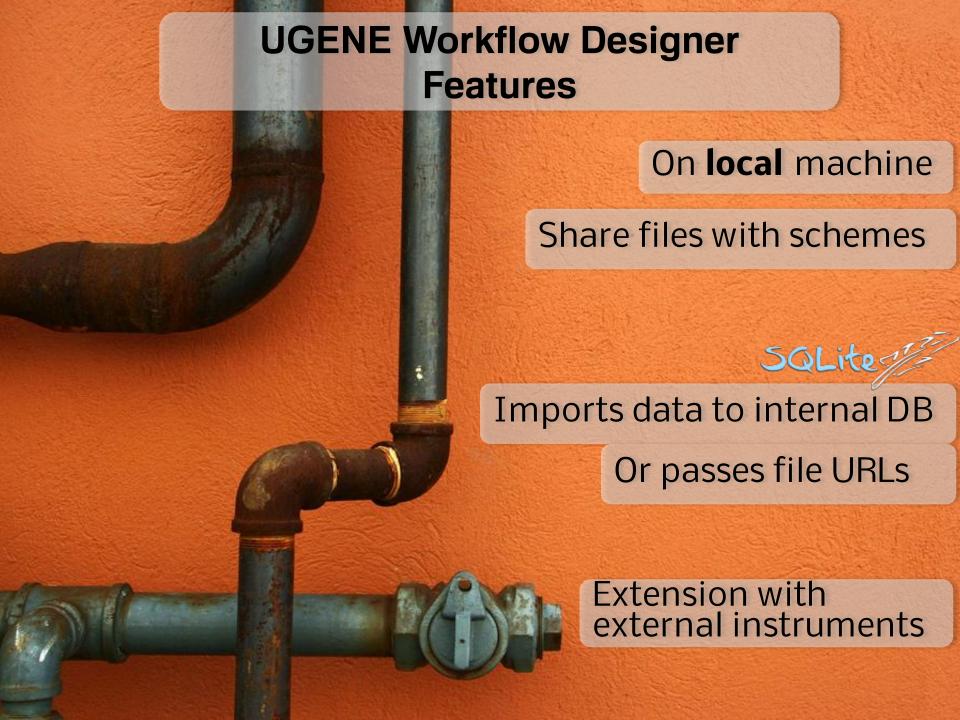




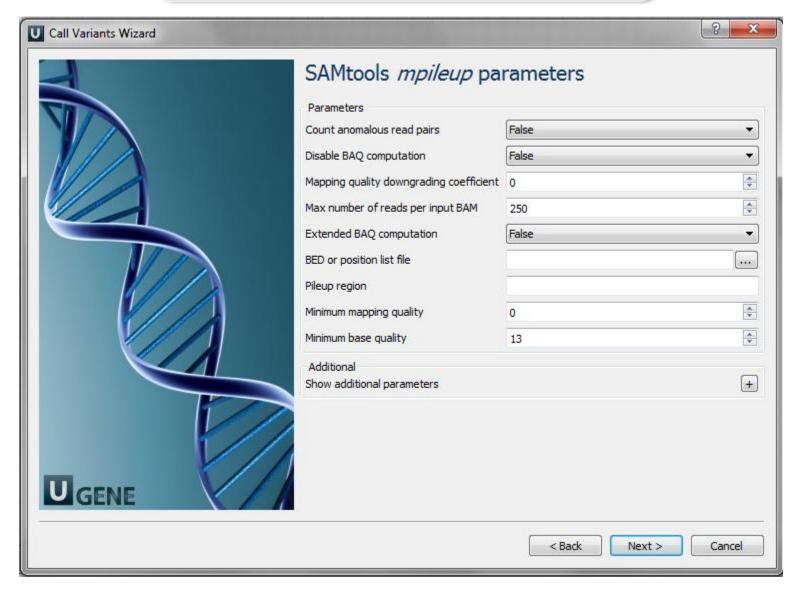
- HMMER, ORF Finder, Restriction sites
- Remote databases queries (BLAST, CDD, DAS, etc.)
- Phylogenetic trees
- TFBSs
- >20 data formats

UGENE Workflow Designer

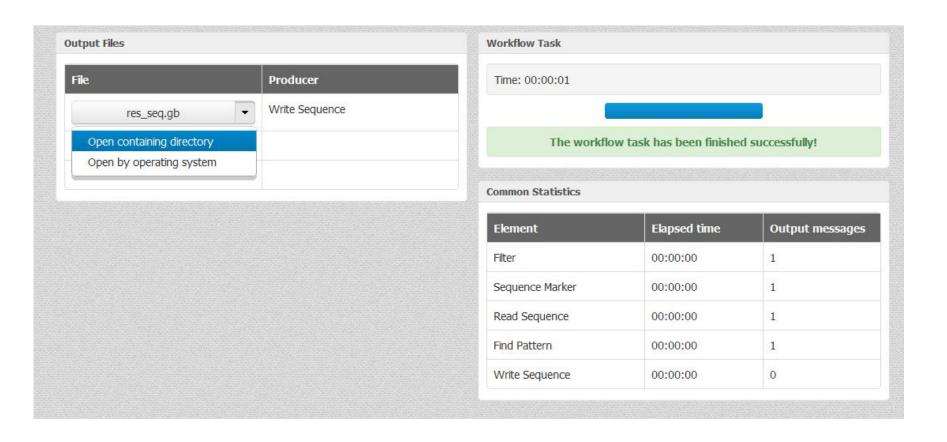


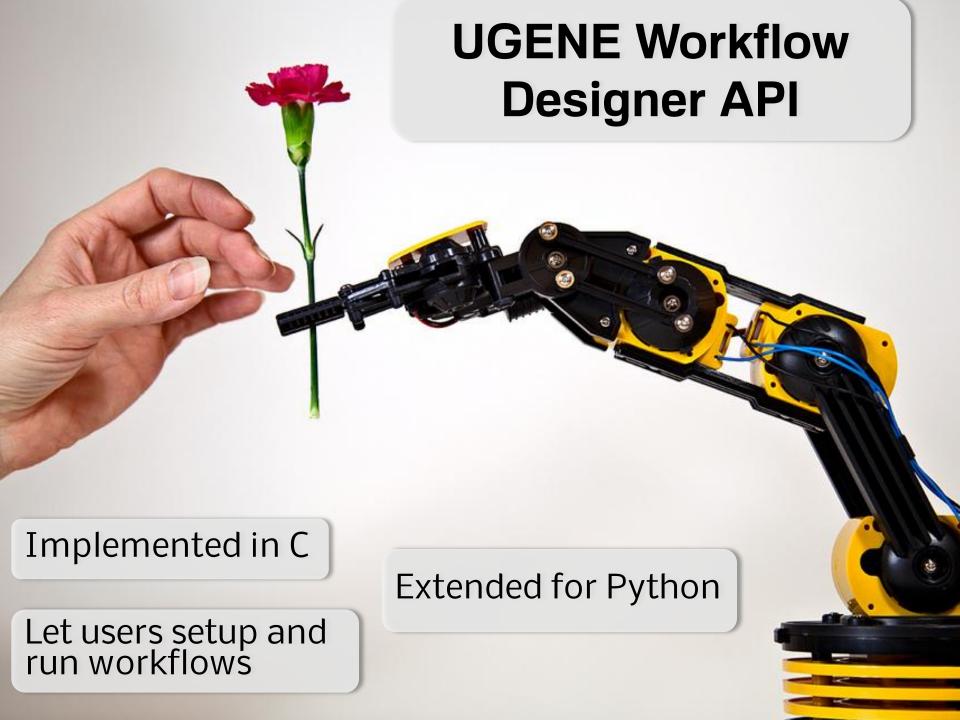


Wizards to setup the parameters



Dashboard for results and statistics





Running Single Algorithm Scheme

```
import u2py
u2py.initContext('./')

inputFile = '../../data/samples/FASTA/chrUn_gl0000231.fa'
outputFile = '../../data/samples/FASTA/ann.gb'

u2py.Scheme.launchSas('repeats-search', inputFile, outputFile)

u2py.releaseContext()
```

BioPython Objects

```
from Bio.Align import MultipleSeqAlignment
from Bio import AlignIO
import u2py
u2py.initContext( './' )
#read an alignment
inputAlignments = []
inputFile = open( '../../data/samples/CLUSTALW/COI_copy1.sto', 'rU' )
inputAlignments.append( AlignIO.read( inputFile, 'stockholm' ) )
inputFile.close( )
#create a scheme
scheme = u2py.Scheme( 'muscle', inputAlignments )
scheme.setElementAttribute( 'Write Alignment', 'document-format', 'stockholm' )
#run the scheme
outputAlignments = scheme.launch( )
scheme.cleanUp( )
u2py.releaseContext( )
```

