GenomicRanges cheatsheets

Explore the contents of "GRanges" object



```
create a GRanges object:
gr <- GRanges(seqnames = ,
              ranges = IRanges(start= , end = ),
              strand = , ...)
subset: []
gr[gr$exon id == 1]
gr[2:3, "exon_id"]
split:
split(gr, seqnames(gr))
How to extract the chromosome seg from a BSgenome data?
library("BSgenome.Hsapiens.UCSC.hg19")
genome<-BSgenome.Hsapiens.UCSC.hg19
ch1<-getSeg(genome,"chr1")
Get the first 20 bases of each chromosome:
getSeq(genome,start=1, end=20)
Get the first 20 bases of chr1
getSeq(genome,"chr1",end=20)
Use GRanges to specify where to get
getSeq(genome,gr)
```

Ranges: operations
reduce(gr, ignore.strand=T)

coverage(gr)
coverage(gr)\$chr1
findOverlaps(gr1, gr2)

(optional:)
shift(gr, -5)
shift(gr, 1:8)
flank(gr, 3)
resize(gr,10)
disjoin(gr)
disjoin(gr, ignore.strand=T)

^{*} gr here is the name of the GRanges object.