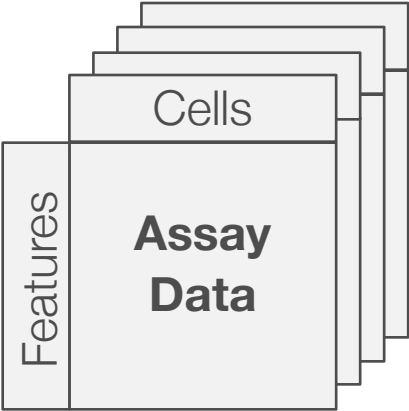
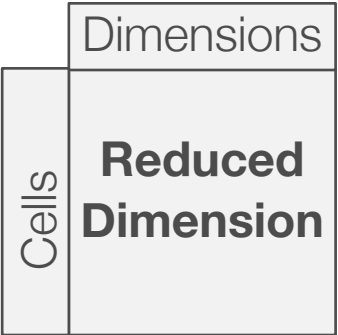
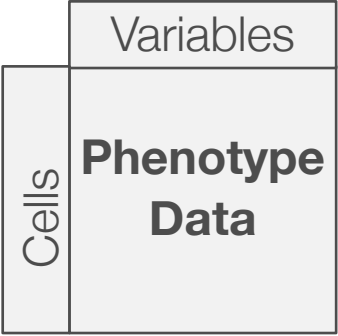
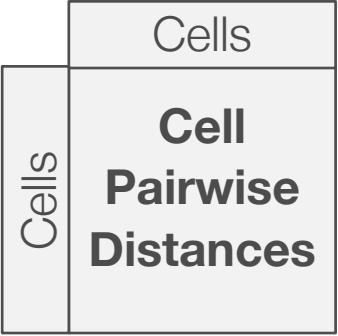
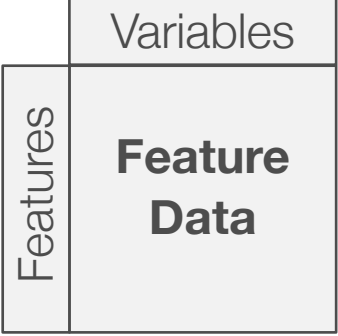
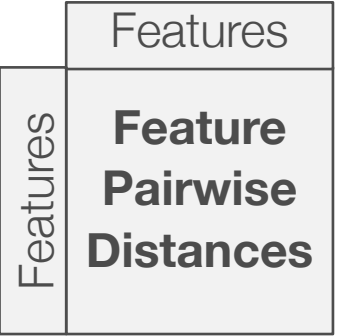
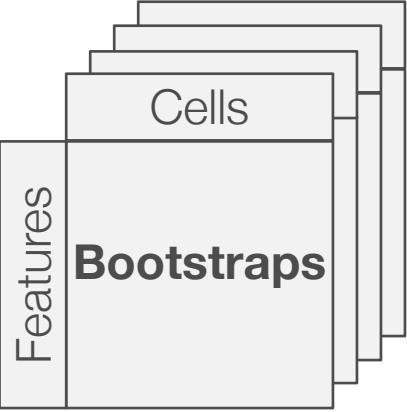



# SCESet: an R S4 class for single-cell RNA-seq data

Inherits Bioconductor's ExpressionSet class, so contains all ExpressionSet slots not listed below

Required Slots		Optional Slots	
	<p>The assay data slot holds all of the expression data, both raw and transformed. It can hold any number of numeric matrices of the correct size.</p> <p>Accessor functions are available for expected slots: 'exprs', 'counts', 'is_exprs', 'tpm', 'cpm', 'fpkm', 'norm_exprs', 'stand_exprs'. Plus there is the more general 'get_exprs' function to obtain any named element in the assay data slot.</p>		<p>A numeric matrix with columns representing components for a reduced dimension representation of cells (rows), for example principal components.</p> <p>Accessor and assignment function 'reducedDimension', plus plotting methods.</p>
	<p>Cell phenotype information. An 'AnnotatedDataFrame' with cells as rows and columns as phenotype variables. Columns can include quality control metrics.</p> <p>Accessor and assignment function 'pData', plus many associated plotting methods.</p>		<p>Pairwise distances between cells, using any appropriate distance metric.</p> <p>Accessor and assignment functions 'cellPairwiseDistances' and 'cellDist'.</p>
	<p>Feature (i.e. gene or transcript) annotation information. An 'AnnotatedDataFrame' with features as rows and columns as feature variables, which can include quality control metrics.</p> <p>Accessor and assignment function 'fData', plus many associated plotting methods.</p>		<p>Pairwise distances between features, using any appropriate distance metric.</p> <p>Accessor and assignment functions 'featurePairwiseDistances'. and 'featDist'.</p>
<div><b>Further slots</b><p><b>logged:</b> logical scalar indicating whether or not the expression data in the 'exprs' slot have been log2-transformed.</p><p><b>logExprsOffset:</b> numeric scalar, providing an offset applied to expression data in the 'exprs' slot when undergoing log2-transformation to avoid trying to take logs of zero. Default is one.</p><p><b>lowerDetectionLimit:</b> numeric scalar giving the lower limit for an expression value to be classified as “expressed”. Default is zero.</p><p><b>useForExprs:</b> character string (one of 'exprs', 'tpm', 'counts' or 'fpkm') indicating which expression representation both internal methods and external packages should use. Defaults to 'exprs'.</p><p><b>featureControlInfo:</b> AnnotatedDataFrame that can contain information/metadata about sets of control features. This is used for normalisation integrated with the <i>scrn</i> package.</p></div>			<p>A numeric array containing bootstrap samples of expression values, as for example produced by the software tools <i>kallisto</i> or <i>Salmon</i> for quantifying transcript abundance.</p>
			<p>A list to contain consensus clustering results allowing integration with the <i>SC3</i> clustering package</p>