## Glossary of deep sequencing jargon

BAM	<ul> <li>binary file format (complement to SAM); should be the result of an alignment of sequenced reads to a reference genome</li> <li>each line = 1 mapped read, with information about its mapping quality, its sequence, its location in the genome etc.</li> <li>highly recommended format for storing data</li> <li>to make a BAM file human-readable, one can, for example, use the program samtools view</li> </ul>
bed	<ul> <li>text file</li> <li>used for genomic intervals, e.g. genes, peak regions etc.</li> <li>actually, there is a rather strict definition of the format that can be found at UCSC         (http://genome.ucsc.edu/FAQ/FAQformat.html#format1)     </li> <li>for deepTools, the first 3 columns are important: chromosome, start position of the region, end position of the genome</li> </ul>
bedGraph	<ul> <li>text file</li> <li>similar to bed file, except that it can ONLY contain 4 columns and 4th column MUST be a score</li> </ul>
bigWig	<ul> <li>binary version of a bedGraph file</li> <li>usually contains 4 columns: chromosome, start of genomic bin, end of genomic bin, score</li> <li>the score can be anything, e.g. an average read coverage</li> <li>very useful to</li> </ul>
FASTQ	<ul> <li>text file</li> <li>contains raw read information (e.g. base calls, sequencing quality measures etc.), but not information about where in the genome the read originated from</li> </ul>
SAM	<ul> <li>should be the result of an alignment of sequenced reads to a reference genome</li> <li>each line = 1 mapped read, with information about its mapping quality, its sequence, its location in the genome etc.</li> <li>it is recommended to generate the binary (compressed) version of this file format: BAM</li> </ul>