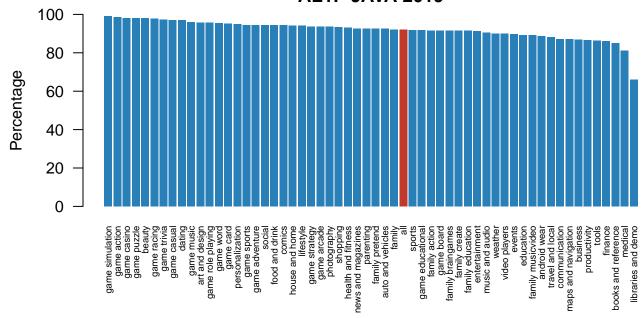AL1P JAVA 2019