Agile techniques have revolutionized the field of project management over the last decade, especially in changing environments where project goals and priorities are often modified. In this presentation, the origin of agile project management is explained, together with its merits along with its failures. The agile way of managing a project is put in contrast to the traditional methods used. The agile process is covered in detail, along with the roles that the team members play. Finally, the different tools that are being used to implement agile methods in project management are described.