```
Material

    effectsOnMaterial

 compDefStrength
- impactDefStrength
- tensileDefStrength
- torsionDefStrenght
- shearDefStrength

    compFractStrength

impactFractStrengthtensileFractStrength

    torsionFractStrenght

    shearFractStrength

- plasticity

    density

    materialName

+ operator
+ operator!=()
+ operator=()
+ Material()
+ Material()
+ PerformMaterialCalculations()
+ setDeformationStrenghts()
+ setFractureStrength()
+ setDensity()
+ setMaterialName()
and 6 more...
SetupForce()
SetupShearForce()

    SetupImpactForce()

- SetupCompressionForce()
 SetupTensileForce()
 SetupTorsionForce()
- CalculateForcePenentration()
   CalculateForcePenentration()
 ApplyForcePenentration()

    DetermineWoundSeveritÿ()

                  -material
            Resource

    isRenewable

    isEdible

    resourceCategory

   - name
   - rarity
   + operator==()
   + operator!=()
   + operator=()
   + Resource()
   + Resource()
   + Resource()
   + setResourceCategory()
    + setIsRenewable()
   + setResourceName()
   + setRarity()
   and 12 more
               Plant
      growthRate

    growthDuration

     yieldSeedsbiomeVec
     + operator==()
     + operator!=
     + operator=()
+ Plant()
     + Plant()
     + setGrowthRate()
     + setGrowthDuration()
     + setYieldSeeds()
     + addBiome()
+ getGrowthRate()
     + getGrowthDuration()
     + ğetYieldsSeeds()
     + getBiomeVecŘef()
               Tree
       maxHeight

    maxDiameter

        - operator==()
      + operator=()
      + operator=()
        Tree()
Tree()
       + setMäxHeight()
       + setMaxDiameter()
```