

[illegible]

The treemap visualization displays the package structure of the LuceneGazetteer project and its associated test suite. The packages are color-coded: LuceneGazetteer (orange), LuceneGazetteerTest (light orange), QueryBuilder (green), UniqueFuzzyScoringRewrite (light green), and GazetteerQuery (dark green). The treemap is organized into hierarchical boxes representing the package structure, with sub-packages and classes nested within them.

LuceneGazetteer (orange) contains:

- executeQuery
- getGeoName
- resolveParents
- getClosestLocations
- buildFilters
- sanitizeQueryText

LuceneGazetteerTest (light orange) contains:

- setUp
- testBorderCases
- testFilterDups
- testGeoName
- testLoadAncestry
- testResolveAncestry
- testResolveLocations
- testSanitizedInput

QueryBuilder (green) contains:

- build
- filterDups
- fuzzyMode
- location
- removeParents
- removeParentsIds
- toString

UniqueFuzzyScoringRewrite (light green) contains:

- addClause
- build
- getTopLevelBuilder
- getMaxSize

GazetteerQuery (dark green) contains:

- Gazetteer
- getGeoName

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The diagrams are organized into three columns:

- Column 1:**
 - MultipartLocationResolverTest**: Properties: `•`. Methods: `setUpClass`, `verifyCity`, `verifyLocation`. Associated objects: `parameters`, `newMultipartLocationResolverTest()`.
 - MultipartLocationName**: Properties: `•`. Methods: `getMatch`, `getMatchTimes`, `getMatch`, `getMatchTimes`, `toString`. Associated objects: `equals`, `getCountry`, `hashCode`.
 - ResolvedMultipartLocation**: Properties: `•`. Methods: `getCity`, `getState`, `getCountry`, `hashCode`. Associated objects: `equals`.
- Column 2:**
 - MultipartLocationResolver**: Properties: `•`. Methods: `logging`, `api`. Associated objects: `findCandidates`, `newMultipartLocationResolver()`.
 - DefaultScorer**: Properties: `•`. Methods: `score`. Associated objects: `searchResult`.
 - SearchResult**: Properties: `•`. Methods: `score`. Associated objects: `scorer`.
- Column 3:**
 - MultipartLocationResolverTest**: Properties: `•`. Methods: `setUpClass`, `verifyCity`, `verifyLocation`. Associated objects: `parameters`, `newMultipartLocationResolverTest()`.
 - MultipartLocationName**: Properties: `•`. Methods: `getMatch`, `getMatchTimes`, `getMatch`, `getMatchTimes`, `toString`. Associated objects: `equals`, `getCountry`, `hashCode`.
 - ResolvedMultipartLocation**: Properties: `•`. Methods: `getCity`, `getState`, `getCountry`, `hashCode`. Associated objects: `equals`.

The diagram illustrates the layout of the Android Studio IDE, showing various Java classes and methods highlighted in different colors. The layout is organized into several sections:

- AdaptNlpExtractor** (Top Left): A class with a method `extractLocationNames`. It contains several variables: `apache` (pink), `client` (yellow), `api` (orange), `logging` (brown), `tools` (yellow), `json` (teal), `http` (dark grey), `nlp` (light grey), `binding` (pink), `slf4j` (yellow), and `nlp` (light grey).
- Entity** (Middle Left): A class with a method `getEntity`. It contains several variables: `entity` (pink), `entityType` (yellow), `entityText` (pink), `entityType` (yellow), `entityText` (pink), `entityType` (yellow), `entityText` (pink), and `entityType` (yellow).
- LocationOccurrence** (Bottom Left): A class with a method `getLocationOccurrence`. It contains several variables: `locationOccurrence` (pink), `locationOccurrence` (yellow), `locationOccurrence` (pink), `locationOccurrence` (yellow), `locationOccurrence` (pink), and `locationOccurrence` (yellow).
- ApacheExtractor** (Top Right): A class with a method `extractLocationNames`. It contains several variables: `apache` (pink), `client` (yellow), `api` (orange), `logging` (brown), `tools` (yellow), `json` (teal), `http` (dark grey), `nlp` (light grey), `binding` (pink), `slf4j` (yellow), and `nlp` (light grey).
- LocationOccurrenceTest** (Middle Right): A class with a method `testEquals`. It contains several variables: `locationOccurrence` (pink), `locationOccurrence` (yellow), `locationOccurrence` (pink), `locationOccurrence` (yellow), `locationOccurrence` (pink), and `locationOccurrence` (yellow).
- TextBody** (Bottom Right): A class with a method `getTextBody`. It contains several variables: `textBody` (pink), `textBody` (yellow), `textBody` (pink), `textBody` (yellow), `textBody` (pink), and `textBody` (yellow).

The diagram uses a color-coded system to represent different types of variables or methods, such as pink for `Entity`, yellow for `LocationOccurrence`, and orange for `TextBody`. The layout is organized into a grid-like structure, with each class and its associated variables/methods clearly delineated.

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