

Schema.org: ItemList Examples

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[Introduction](#)

[Vocabulary](#)

[Scenario List](#)

[Original Proposal vs Role-like ListItems](#)

[Outstanding Questions](#)

[Ordered List with Scores](#)

[Original Proposal](#)

[Role-like Proposal](#)

[Unordered List](#)

[Breadcrumbs](#)

[Original Proposal](#)

[Role-like Proposal](#)

[MusicAlbum Contents](#)

[Original Proposal](#)

[Role-like Proposal](#)

[Sports Event Series](#)

[Original Proposal](#)

[Role-like Proposal](#)

[TV Series / Season / Episode](#)

[Original Proposal](#)

[Role-like Proposal](#)

[Original Proposal](#)

[Role-like Proposal](#)

[Recipe Instructions](#)

[Original Proposal](#)

[Role-like Proposal](#)

Introduction

In the interest of moving the ItemList proposal forward, the following are examples of uses for ItemList. The breadcrumbs example is meant to show how one might merge the [Breadcrumbs proposal](#) with ItemList. Similarly, the MusicAlbum example is used to show an alternative to adding a "trackNumber" property to MusicRecording.

Vocabulary

The latest proposed vocabulary as of 08/05/2014.

<http://sdo-itemlist.appspot.com/ItemList>

itemListElement
itemListOrder
numberOfElements

<http://sdo-itemlist.appspot.com/ListItem>

item
position
next
previous
positionBasis

In addition to these ItemList terms, there are also existing related terms.

<http://schema.org/Series>

numberOfEpisodes - similar to **numberOfElements**
numberOfSeasons - similar to **numberOfElements**

<http://schema.org/Season>

numberOfEpisodes - similar to **numberOfElements**
partOfSeries - would be inverse of **itemListElement**
seasonNumber - similar to **position**
position - similar to **itemPosition** (see [discussion of non-numeric values](#))

<http://schema.org/Episode> - episodeNumber, position, partOfSeries, partOfSeason

partOfSeries - would be inverse of **itemListElement**
partOfSeason - would be inverse of **itemListElement**
episodeNumber - similar to **position**
position - similar to **itemPosition**

<http://schema.org/collection> - expected range would be similar to ItemList

<http://schema.org/WebPage> - isPartOf, breadcrumb; see also CollectionPage

Scenario List

- top music artists based on # of weeks on chart
- unordered product catalog
- breadcrumbs
- tracks on a music album
- a series of sports games (e.g. MLB World Series)
- television series seasons / episodes

- ordered results of a sporting event
- recipe; list of ingredients / preparation steps

Original Proposal vs Role-like ListItems

People on the W3C list have discussed using a syntax similar to Roles for describing the items of the list. Each example will be given using the original proposal and a proposal with a role-like syntax. In the role-like syntax, there is no "item" property on ListItem. Instead, the list's incoming property name is replicated.

In the examples below, the differences are highlighted with colors. The original proposal shows the "item" property in red. In the role-like syntax examples, the new property is in blue.

Outstanding Questions

1. For a ranked list, how should ties be indicated? In the example below, I have given the two elements the same value for "position".
2. What is the range for positionBasis? Ideally it would be sortable types (Number, DateTime, and PriceSpecification), but it might be easier to just use TEXT and let the consumer convert the text.
3. Do we still need a separate type for Breadcrumbs? I am assuming we can extend the range of the breadcrumb property to include ItemList.
4. ItemList works oddly for MusicAlbum contents. Is this the approach we want to take? One drawback to this approach is the inability to have track numbers that are not integers. For example, *Here Comes the Sun* should be track B1 on *Abbey Road*, not 7.
5. In general, when do we use a ItemList vs a simple array of things? (aka property repetition) - when we care about order, and we don't expect items to always carry orderable properties.

Ordered List with Scores

Original Proposal

```
{
  "@context": "http://schema.org",
  "@type": "ItemList",
  "@url": "http://en.wikipedia.org/wiki/Billboard_200",
```

```
"name": "Top music artists",
"description": "The artists with the most cumulative weeks at
number one according to Billboard 200",
"numberOfElements": 4,
"itemListElement": [
  {
    "@type": "ListItem",
    "position": 1,
    "positionBasis": "132",
    "item": {
      "@type": "MusicGroup",
      "name": "Beatles"
    }
  },
  {
    "@type": "ListItem",
    "position": 2,
    "positionBasis": 67,
    "item": {
      "@type": "MusicGroup",
      "name": "Elvis Presley"
    }
  },
  {
    "@type": "ListItem",
    "position": 3,
    "positionBasis": 51,
    "item": {
      "@type": "MusicGroup",
      "name": "Michael Jackson"
    }
  },
  {
    "@type": "ListItem",
    "position": 3,
    "positionBasis": 51,
    "item": {
      "@type": "MusicGroup",
      "name": "Garth Brooks"
    }
  }
]
}
```

Role-like Proposal

```
{
  "@context": "http://schema.org",
  "@type": "ItemList",
  "@url": "http://en.wikipedia.org/wiki/Billboard_200",
  "name": "Top music artists",
  "description": "The artists with the most cumulative weeks at
number one according to Billboard 200",
  "numberOfElements": 4,
  "itemListElement": [
    {
      "@type": "ListItem",
      "position": 1,
      "positionBasis": "132",
      "about": {
        "@type": "MusicGroup",
        "name": "Beatles"
      }
    },
    {
      "@type": "ListItem",
      "position": 2,
      "positionBasis": 67,
      "about": {
        "@type": "MusicGroup",
        "name": "Elvis Presley"
      }
    },
    {
      "@type": "ListItem",
      "position": 3,
      "positionBasis": 51,
      "about": {
        "@type": "MusicGroup",
        "name": "Michael Jackson"
      }
    },
    {
      "@type": "ListItem",
      "position": 3,
      "positionBasis": 51,
      "about": {
```

```

        "@type": "MusicGroup",
        "name": "Garth Brooks"
    }
}
]
}

```

Unordered List

Original Proposal

```

{
  "@context": "http://schema.org",
  "@type": "ItemList",
  "name": "Product catalog",
  "itemListElement": [
    {
      "@type": "ListItem",
      "item": {
        "@type": "Product",
        "name": "Widget"
      }
    },
    {
      "@type": "ListItem",
      "item": {
        "@type": "Product",
        "name": "More Widgets"
      }
    },
    {
      "@type": "ListItem",
      "item": {
        "@type": "Product",
        "name": "Yet more widgets"
      }
    }
  ]
}

```

Role-like Proposal

```

{

```

```

"@context": "http://schema.org",
"@type": "ItemList",
"name": "Product catalog",
"itemListElement": [
  {
    "@type": "ListItem",
    "about": {
      "@type": "Product",
      "name": "Widget"
    }
  },
  {
    "@type": "ListItem",
    "about": {
      "@type": "Product",
      "name": "More Widgets"
    }
  },
  {
    "@type": "ListItem",
    "about": {
      "@type": "Product",
      "name": "Yet more widgets"
    }
  }
]
}

```

Breadcrumbs

The example below is an attempt to recreate the effort from the [existing Breadcrumbs proposal](#). It implements two breadcrumb trails as two separate lists:

- Books > Authors > Stephen King
- Books > Fiction > Horror

Original Proposal

```

{
  "@context": "http://schema.org",
  "@type": "WebPage",
  "name": "Book example",
  "breadcrumb": [
    {

```

```

"@type": "ItemList",
"name": "Author breadcrumbs for my site",
"itemListElement": [
  {
    "@type": "ListItem",
    "@id": "http://www.example.com/books",
    "item": "Books",
    "next": "http://www.example.com/books/authors",
  },
  {
    "@type": "ListItem",
    "@id": "http://www.example.com/books/authors",
    "item": "Authors",
    "next":
"http://www.example.com/books/authors/stephenking",
    "previous": "http://www.example.com/books",
  },
  {
    "@type": "ListItem",
    "@id":
"http://www.example.com/books/authors/stephenking",
    "item": "Stephen King",
    "previous": "http://www.example.com/books/authors",
  }
]
},
{
  "@type": "ItemList",
  "name": "Genre breadcrumbs for my site",
  "itemListElement": [
    {
      "@type": "ListItem",
      "@id": "http://www.example.com/books",
      "item": "Books",
      "next": "http://www.example.com/books/fiction",
    },
    {
      "@type": "ListItem",
      "@id": "http://www.example.com/books/fiction",
      "item": "Fiction",
      "next": "http://www.example.com/books/fiction/horror",
      "previous": "http://www.example.com/books",
    },
  ],

```



```

    {
      "@type": "ListItem",
      "@id": "http://www.example.com/books/fiction/horror",
      "item": "Horror",
      "previous": "http://www.example.com/books/fiction",
    }
  ]
}
]
}

```

Role-like Proposal

```

{
  "@context": "http://schema.org",
  "@type": "WebPage",
  "name": "Book example",
  "breadcrumb": [
    {
      "@type": "ItemList",
      "name": "Author breadcrumbs for my site",
      "itemListElement": [
        {
          "@type": "ListItem",
          "@id": "http://www.example.com/books",
          "breadcrumb": "Books",
          "next": "http://www.example.com/books/authors",
        },
        {
          "@type": "ListItem",
          "@id": "http://www.example.com/books/authors",
          "breadcrumb": "Authors",
          "next":
"http://www.example.com/books/authors/stephenking",
          "previous": "http://www.example.com/books",
        },
        {
          "@type": "ListItem",
          "@id":
"http://www.example.com/books/authors/stephenking",
          "breadcrumb": "Stephen King",
          "previous": "http://www.example.com/books/authors",
        }
      ]
    }
  ]
}

```

```

    ]
  },
  {
    "@type": "ItemList",
    "name": "Genre breadcrumbs for my site",
    "itemListElement": [
      {
        "@type": "ListItem",
        "@id": "http://www.example.com/books",
        "breadcrumb": "Books",
        "next": "http://www.example.com/books/fiction",
      },
      {
        "@type": "ListItem",
        "@id": "http://www.example.com/books/fiction",
        "breadcrumb": "Fiction",
        "next": "http://www.example.com/books/fiction/horror",
        "previous": "http://www.example.com/books",
      },
      {
        "@type": "ListItem",
        "@id": "http://www.example.com/books/fiction/horror",
        "breadcrumb": "Horror",
        "previous": "http://www.example.com/books/fiction",
      }
    ]
  }
]
}

```

MusicAlbum Contents

The current [MusicAlbum proposal](#) adds a `trackNumber` property to `MusicRecording` to allow authors to mark up the order of tracks on an album. An alternative would be to extend the range of `MusicAlbum > track` to expect an `ItemList`.

Original Proposal

```

{
  "@context": "http://schema.org",
  "@type": "MusicAlbum",
  "name": "King of Limbs",
  "byArtist": {
    "@type": "MusicGroup",
    "name": "Radiohead",

```

```

},
track: [
  "@type": "ItemList",
  "numberOfElements": 8,
  "itemListElement": [
    {
      "@type": "ListItem",
      "position": 1,
      "item": {
        "@type": "MusicRecording",
        "name": "Bloom"
      }
    },
    {
      "@type": "ListItem",
      "position": 2,
      "item": {
        "@type": "MusicRecording",
        "name": "Morning Mr. Magpie"
      }
    },
    {
      "@type": "ListItem",
      "position": 3,
      "item": {
        "@type": "MusicRecording",
        "name": "Little by Little"
      }
    }
  ]
}

```

Role-like Proposal

```

{
  "@context": "http://schema.org",
  "@type": "MusicAlbum",
  "name": "King of Limbs",
  "byArtist": {
    "@type": "MusicGroup",
    "name": "Radiohead",
  },
  "track": [

```

```

"@type": "ItemList",
"numberOfElements": 8,
"itemListElement": [
  {
    "@type": "ListItem",
    "position": 1,
    "track": {
      "@type": "MusicRecording",
      "name": "Bloom"
    }
  },
  {
    "@type": "ListItem",
    "position": 2,
    "track": {
      "@type": "MusicRecording",
      "name": "Morning Mr. Magpie"
    }
  },
  {
    "@type": "ListItem",
    "position": 3,
    "track": {
      "@type": "MusicRecording",
      "name": "Little by Little"
    }
  }
]
}

```

Sports Event Series

Modeling the first three games of the 2013 World Series of Major League Baseball

Original Proposal

```

{
  "@context": "http://schema.org",
  "@type": "SportsEvent",
  "name": "2013 World Series",
  "subEvent": {
    "@type": "ItemList",
    "itemListElement": [
      {
        "@type": "ListItem",

```

```

    "position": "1",
    "item": {
      "@type": "SportsEvent",
      "@id": "http://mlb.com/ws2013g1",
      "name": "2013 World Series - Game One"
    }
  }, {
    "@type": "ListItem",
    "position": "2",
    "item": {
      "@type": "SportsEvent",
      "@id": "http://mlb.com/ws2013g2",
      "name": "2013 World Series - Game Two"
    }
  }, {
    "@type": "ListItem",
    "position": "3",
    "item": {
      "@type": "SportsEvent",
      "@id": "http://mlb.com/ws2013g3",
      "name": "2013 World Series - Game Three"
    }
  }
]
}

```

Role-like Proposal

```

{
  "@context": "http://schema.org",
  "@type": "SportsEvent",
  "name": "2013 World Series",
  "subEvent": {
    "@type": "ItemList",
    "itemListElement": [
      {
        "@type": "ListItem",
        "position": "1",
        "subEvent": {
          "@type": "SportsEvent",
          "@id": "http://mlb.com/ws2013g1",
          "name": "2013 World Series - Game One"
        }
      }
    ]
  }
}

```

```

    }
  }, {
    "@type": "ListItem",
    "position": "2",
    "subEvent": {
      "@type": "SportsEvent",
      "@id": "http://mlb.com/ws2013g2",
      "name": "2013 World Series - Game Two"
    }
  }, {
    "@type": "ListItem",
    "position": "3",
    "subEvent": {
      "@type": "SportsEvent",
      "@id": "http://mlb.com/ws2013g3",
      "name": "2013 World Series - Game Three"
    }
  }
]
}
}

```

TV Series / Season / Episode

Schema.org already has vocabulary in place to describe the list of seasons associated with a TV series and the episodes within one or more seasons. The ItemList proposal introduces synonymous mechanisms via its vocabulary and the below example illustrates this.

Original Proposal

```

// Season + Episode [existing vocabulary]
{
  "@context": "http://schema.org",
  "@type": "Season",
  "@id": "http://en.wikipedia.org/wiki/Grey%27s\_Anatomy\_\(season\_10\)",
  "name": "Grey's Anatomy - Season 10",
  "numberOfEpisodes": "24",
  "episode": [
    {
      "@type": "Episode",
      "name": "Seal Our Fate",
      "episodeNumber": "1"
    }, {
      "@type": "Episode",

```

```

        "name": "I Want You With Me",
        "episodeNumber": "2"
    }, {
        "@type": "Episode",
        "name": "Everybody's Crying Mercy",
        "episodeNumber": "3"
    }
]
}

// Season + ItemList + ListItem + Episode [new vocabulary]
{
    "@context": "http://schema.org",
    "@type": "Season",
    "@id": "http://en.wikipedia.org/wiki/Grey%27s\_Anatomy\_\(season\_10\)",
    "name": "Grey's Anatomy - Season 10",
    "episode": {
        "@type": "ItemList",
        "itemListElement": [
            {
                "@type": "ListItem",
                "position": "1",
                "item": {
                    "@type": "Episode",
                    "name": "Seal Our Fate"
                }
            }, {
                "@type": "ListItem",
                "position": "2",
                "item": {
                    "@type": "Episode",
                    "name": "I Want You With Me"
                }
            }, {
                "@type": "ListItem",
                "position": "3",
                "item": {
                    "@type": "Episode",
                    "name": "Everybody's Crying Mercy"
                }
            }
        ]
    }
}

```

```

}

// Series + Season
{
  "@context": "http://schema.org",
  "@type": "Series",
  "@id": "http://en.wikipedia.org/wiki/Grey%27s\_Anatomy",
  "name": "Grey's Anatomy",
  "season": [
    {
      "@type": "Season",
      "name": "Grey's Anatomy - Season 1"
    }, {
      "@type": "Season",
      "name": "Grey's Anatomy - Season 2"
    }, {
      "@type": "Season",
      "name": "Grey's Anatomy - Season 3"
    }
  ]
}

```

```

// Series + ItemList + ListItem + Season

"@context": "http://schema.org",
"@type": "Series",
"@id": "http://en.wikipedia.org/wiki/Grey%27s\_Anatomy",
"name": "Grey's Anatomy",
"season": {
  "@type": "ItemList",
  "itemListElement": [
    {
      "@type": "ListItem",
      "position": "1",
      "item": {
        "@type": "Season",
        "name": "Grey's Anatomy - Season 1"
      }
    }, {
      "@type": "ListItem",
      "position": "2",
      "item": {
        "@type": "Season",

```



```

        "name": "Grey's Anatomy - Season 2"
    }, {
        "@type": "ListItem",
        "position": "3",
        "item": {
            "@type": "Season",
            "name": "Grey's Anatomy - Season 3"
        }
    }
]
}
}

```

Role-like Proposal

```

// Season + Episode [existing vocabulary]
{
    "@context": "http://schema.org",
    "@type": "Season",
    "@id": "http://en.wikipedia.org/wiki/Grey%27s\_Anatomy\_\(season\_10\)",
    "name": "Grey's Anatomy - Season 10",
    "numberOfEpisodes": "24",
    "episode": [
        {
            "@type": "Episode",
            "name": "Seal Our Fate",
            "episodeNumber": "1"
        }, {
            "@type": "Episode",
            "name": "I Want You With Me",
            "episodeNumber": "2"
        }, {
            "@type": "Episode",
            "name": "Everybody's Crying Mercy",
            "episodeNumber": "3"
        }
    ]
}

// Season + ItemList + ListItem + Episode [new vocabulary]
{

```

```

"@context": "http://schema.org",
"@type": "Season",
"@id": "http://en.wikipedia.org/wiki/Grey%27s\_Anatomy\_\(season\_10\)",
"name": "Grey's Anatomy - Season 10",
"episode": {
  "@type": "ItemList",
  "itemListElement": [
    {
      "@type": "ListItem",
      "position": "1",
      "episode": {
        "@type": "Episode",
        "name": "Seal Our Fate"
      }
    }, {
      "@type": "ListItem",
      "position": "2",
      "episode": {
        "@type": "Episode",
        "name": "I Want You With Me"
      }
    }, {
      "@type": "ListItem",
      "position": "3",
      "episode": {
        "@type": "Episode",
        "name": "Everybody's Crying Mercy"
      }
    }
  ]
}
}
}

```

```

// Series + Season
{
  "@context": "http://schema.org",
  "@type": "Series",
  "@id": "http://en.wikipedia.org/wiki/Grey%27s\_Anatomy",
  "name": "Grey's Anatomy",
  "season": [
    {
      "@type": "Season",
      "name": "Grey's Anatomy - Season 1"
    }
  ]
}

```

```

    }, {
      "@type": "Season",
      "name": "Grey's Anatomy - Season 2"
    }, {
      "@type": "Season",
      "name": "Grey's Anatomy - Season 3"
    }
  ]
}

// Series + ItemList + ListItem + Season

"@context": "http://schema.org",
"@type": "Series",
"@id": "http://en.wikipedia.org/wiki/Grey%27s\_Anatomy",
"name": "Grey's Anatomy",
"season": {
  "@type": "ItemList",
  "itemListElement": [
    {
      "@type": "ListItem",
      "position": "1",
      "season": {
        "@type": "Season",
        "name": "Grey's Anatomy - Season 1"
      }
    }, {
      "@type": "ListItem",
      "position": "2",
      "season": {
        "@type": "Season",
        "name": "Grey's Anatomy - Season 2"
      }
    }, {
      "@type": "ListItem",
      "position": "3",
      "season": {
        "@type": "Season",
        "name": "Grey's Anatomy - Season 3"
      }
    }
  ]
}

```

```
}
```

Sports Event Results

The latest draft of the sports vocabulary has the concept of lists in the form of results from a competition. In the sports draft proposal, a simple array is used, with a property called 'place' to maintain the rank.

Original Proposal

```
{
  "@context": "http://schema.org",
  "@type": "SportsEvent",
  "name": "2010 Winter Olympics - Snowboarding Finals",
  resultDecision: [
    {
      "@type": "PlaceDecision",
      "numberedPosition": "1",
      "competitor": {
        "@type": "Person",
        "name": "Maelle Ricker"
      }
    }, {
      "@type": "PlaceDecision",
      "numberedPosition": "2",
      "competitor": {
        "@type": "Person",
        "name": "Deborah Anthonioz"
      }
    }, {
      "@type": "DidNotFinishDecision",
      "competitor": {
        "@type": "Person",
        "name": "Jane Doe"
      }
    }
  ]
}
```

This same example, but using ItemList might looks like.

```
{
```

```

"@context": "http://schema.org",
"@type": "SportsEvent",
"name": "2010 Winter Olympics - Snowboarding Finals",
"result":
{
  "@type": "ItemList",
  "itemListElement": [
    {
      "@type": "ListItem",
      "position": "1",
      "item": {
        "@type": "PlaceDecision",
        "competitor": {
          "@type": "Person",
          "name": "Maelle Ricker"
        }
      }
    }, {
      "@type": "ListItem",
      "position": "2",
      "item": {
        "@type": "PlaceDecision",
        "competitor": {
          "@type": "Person",
          "name": "Deborah Anthonioz"
        }
      }
    }, {
      "@type": "ListItem",
      "item": {
        "@type": "DidNotFinishDecision",
        "competitor": {
          "@type": "Person",
          "name": "Jane Doe"
        }
      }
    }
  ]
}

```

Revised version of above eliminating usage of "PlaceDecision"

```

{
  "@context": "http://schema.org",
  "@type": "SportsEvent",
  "name": "2010 Winter Olympics - Snowboarding Finals",
  "result": {
    "@type": "ItemList",
    "itemListElement": [
      {
        "@type": "ListItem",
        "position": "1",
        "item": {
          "@type": "Person",
          "name": "Maelle Ricker"
        }
      }, {
        "@type": "ListItem",
        "position": "2",
        "item": {
          "@type": "Person",
          "name": "Deborah Anthonioz"
        }
      }, {
        "@type": "ListItem",
        "item": {
          "@type": "DidNotFinishDecision",
          "competitor": {
            "@type": "Person",
            "name": "Jane Doe"
          }
        }
      }
    ]
  }
}

```

Role-like Proposal

```

{
  "@context": "http://schema.org",
  "@type": "SportsEvent",
  "name": "2010 Winter Olympics - Snowboarding Finals",
  "result":
    {

```

```

"@type": "ItemList",
"itemListElement": [
  {
    "@type": "ListItem",
    "position": "1",
    "result": {
      "@type": "PlaceDecision",
      "competitor": {
        "@type": "Person",
        "name": "Maelle Ricker"
      }
    }
  }, {
    "@type": "ListItem",
    "position": "2",
    "result": {
      "@type": "PlaceDecision",
      "competitor": {
        "@type": "Person",
        "name": "Deborah Anthonioz"
      }
    }
  }, {
    "@type": "ListItem",
    "result": {
      "@type": "DidNotFinishDecision",
      "competitor": {
        "@type": "Person",
        "name": "Jane Doe"
      }
    }
  }
]
}

```

Recipe Instructions

The Recipe class currently packs all instructions into a single text field: `recipeInstructions`. The order of instructions could be clarified using `ItemList`.

Original Proposal

```

{

```

```

"@context": "http://schema.org",
"@type": "Recipe",
"name": "Mom's World Famous Banana Bread",
"recipeInstructions": {
  "@type": "ItemList",
  "itemListElement": [
    {
      "@type": "ListItem",
      "position": 1,
      "item": "Preheat the oven to 350 degrees."
    },
    {
      "@type": "ListItem",
      "position": 2,
      "item": "Mix in the ingredients in a bowl. Add
the flour last."
    },
    {
      "@type": "ListItem",
      "position": 3,
      "item": "Pour the mixture into a loaf pan."
    },
    {
      "@type": "ListItem",
      "position": 4,
      "item": "Bake for one hour."
    }
  ]
}
}

```

Role-like Proposal

```

{
  "@context": "http://schema.org",
  "@type": "Recipe",
  "name": "Mom's World Famous Banana Bread",
  "recipeInstructions": {
    "@type": "ItemList",
    "itemListElement": [
      {
        "@type": "ListItem",
        "position": 1,

```



```
    "recipeInstructions": "Preheat the oven to 350 degrees."
  },
  {
    "@type": "ListItem",
    "position": 2,
    "recipeInstructions": "Mix in the ingredients in a bowl. Add
the flour last."
  },
  {
    "@type": "ListItem",
    "position": 3,
    "recipeInstructions": "Pour the mixture into a loaf pan."
  },
  {
    "@type": "ListItem",
    "position": 4,
    "recipeInstructions": "Bake for one hour."
  }
]
}
```