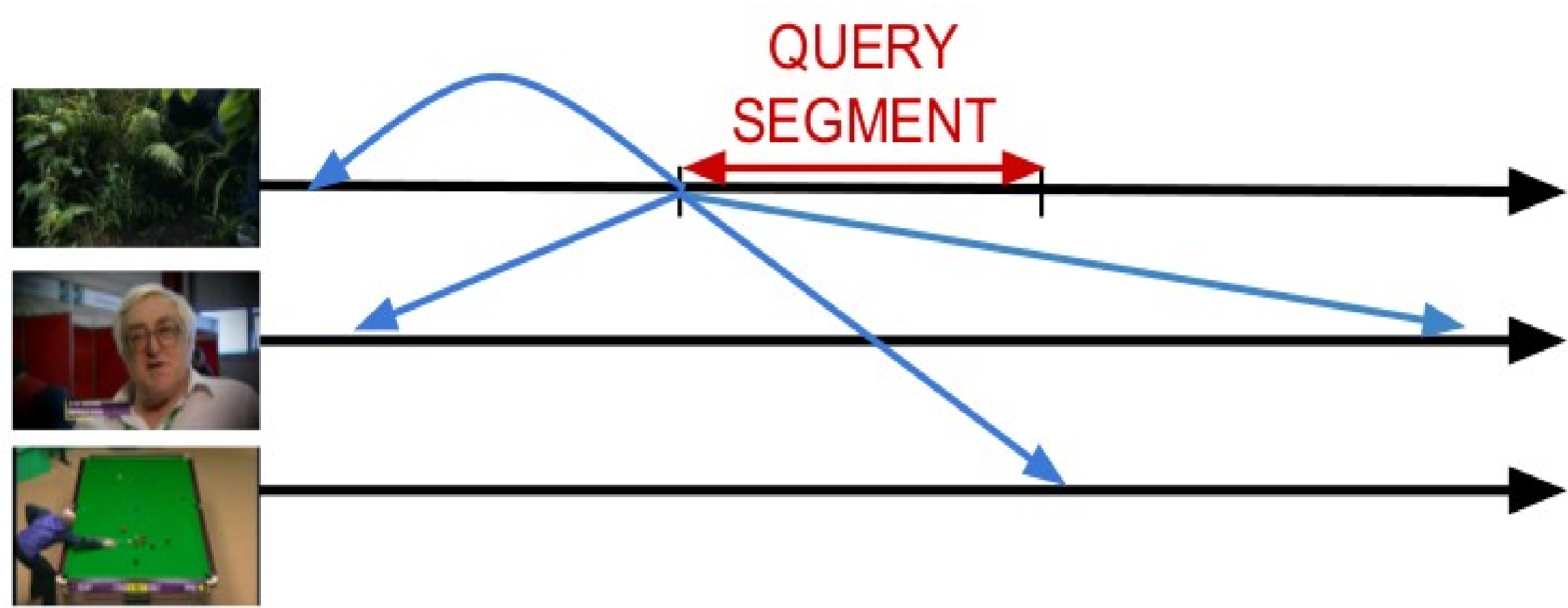


Combination of:

- **text-based similarity** calculated on subtitles
- **visual similarity** between keyframes calculated using Feature Signatures
- preference based on whether the query and retrieved answer come from the same **TV serie**

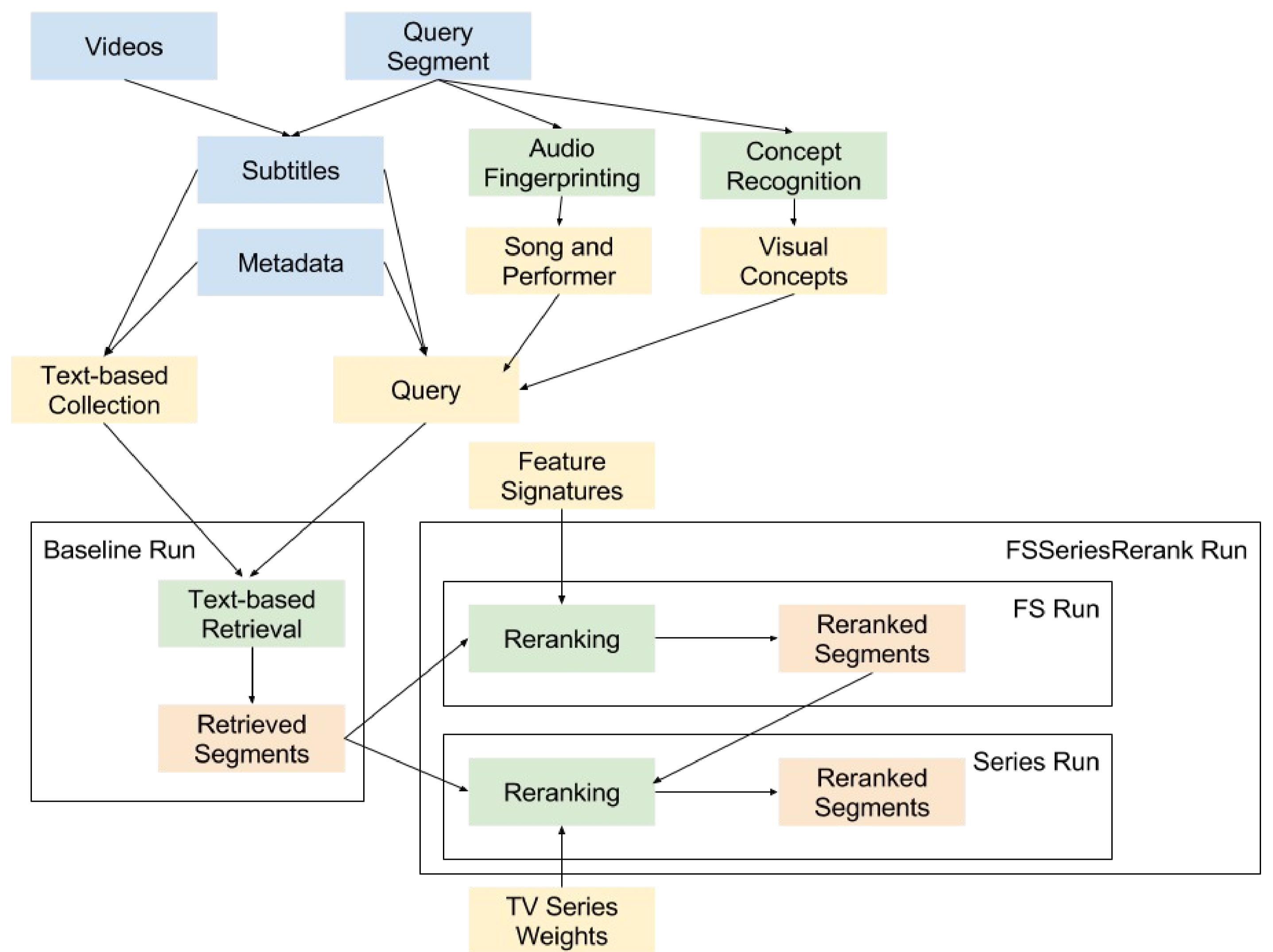
Hyperlinking

- Find data segments which are similar to the query ones.
- Users can browse the archive using the links between query segments and related data segments.



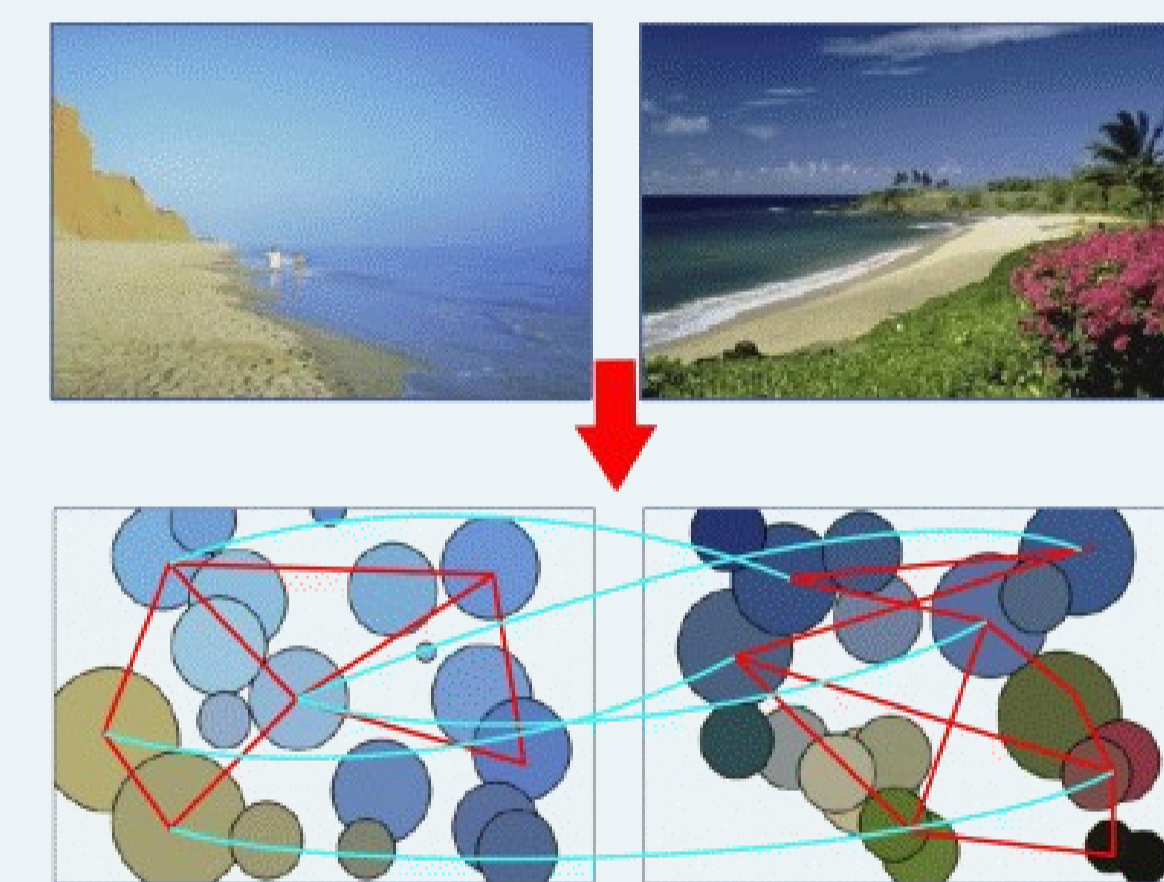
1. Baseline

- All recordings are **segmented** into 60-second passages, new passage is created every 10 seconds.
- Terrier IR Platform
- Text-based retrieval using **subtitles**
- **Metadata** (title, description, broadcast channel)
- **Context** of the query (20 seconds before and after the query segment)
- **Audio information** from Doreso fingerprinting service
- **Visual concepts** recognized in each query keyframe with associated confidence score



4. Feature Signatures (FS)

- Feature Signatures approximate distribution of color and texture in the image.
- Identify keyframes with a similar background.
- Pre-calculated weights for each segment combined with the Baseline run.



5. FSSeriesRerank

- The results returned by the FS system were linearly combined with the same weights as those used in the Series run and reranked accordingly.

| Run | Postfiltering | MAP | P10 | MAP-bin | MAP-tol |
|----------------|---------------|---------------|---------------|---------------|---------------|
| Series | No | 0.1312 | 0.2600 | 0.1443 | 0.1131 |
| FSSeriesRerank | No | 0.0987 | 0.1980 | 0.1094 | 0.0984 |
| FS | No | 0.1441 | 0.2750 | 0.1560 | 0.1234 |
| Baseline | No | 0.1405 | 0.2740 | 0.1536 | 0.1214 |
| Series | Yes | 0.1971 | 0.4313 | 0.2005 | 0.1718 |
| FSSeriesRerank | Yes | 0.1553 | 0.3414 | 0.1573 | 0.1340 |
| FS | Yes | 0.2131 | 0.4545 | 0.2138 | 0.1846 |
| Baseline | Yes | 0.2095 | 0.4495 | 0.2118 | 0.1826 |

Tab1. Performance comparison of results submitted to the Video Hyperlinking Task.

2. Postfiltering

- Remove retrieved segments occurring in the query video.

3. Series

- Information on whether the videos came from the same TV series
- Pre-calculated weights for each segment combined with the Baseline run.

Conclusion

- FS run outperformed the Baseline run - helpful in the retrieval of similar backgrounds and settings.
- Information about TV series did not outperform the Baseline run.