**Information Need 1**

1. Rock of Ages musical future tickets
2. Google, Bing
3. The number of duplicates removed when results were pooled: 2
4. The final pool size after duplicates are removed: 14
5. The total number of relevant results: 9

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| Number | Result URL | Is it relevant? | Relevance : why? |
| 1 | https://rockofagesmusical.com/ | yes | It has direct links to buy tickets of 2021 for the musical. |
| 2 | <https://rockofagesmusical.com/tickets/> | yes | It has the same link of the url to buy tickets above. |
| 3 | https://www.telecharge.com/Off-Broadway/Rock-of-Ages/Overview | no | It lists the past musicals in 2019, not 2021. |
| 4 | https://www.stubhub.com/rock-of-ages-atlanta-tickets/performer/100282433/ | no | It only provides information about the musical in Atlanta without links to buy tickets. |
| 5 | https://www.ticketsmarter.com/rock-of-ages | yes | It provides a search engine that lists and enables filtering of all tickets of the musical in 2021. |
| 6 | https://www.headout.com/broadway/rock-of-ages-e-10604/ | no | It only have information and comments about the musical. |
| 7 | <http://www.musicaltheatrenews.com/rock-of-ages-tour.html> | yes | It lists information about the future musical show and links to buy tickets of 2021. |
| 8 | https://www.stereoboard.com/rock-of-ages-tickets/new-york | no | It mainly has information on the accommodation where the musical is held, not the musical tickets to buy. |
| 9 | https://www.ticketmaster.com/rock-of-ages-touring-tickets/artist/1291934 | yes | Provides information and a direct platform to book tickets for the 2021 musical. |
| 10 | <https://www.ticketnetwork.com/performers/rock-of-ages-tickets> | yes | It offers tickets for the musical in the US. We can directly book tickets here. |
| 11 | <https://www.cheapoticketing.com/performers/rock-of-ages> | yes | It offers tours, schedules, and tickets for the musical in US. We can directly book tickets here. |
| 12 | https://www.stubhub.com/rock-of-ages-tickets/grouping/377745/ | yes | Provides information and a direct platform to book tickets for the 2021 musical. |
| 13 | https://www.tickets4musical.com/rock-of-ages-tickets | yes | Provides a link to book tickets for the 2021 musical. |
| 14 | https://www.rockofageshollywood.com/ | no | Only dead links to book tickets. |

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| Metric | Search Engine 1 = Google | Search Engine 2 = Bing |
| Precision at rank 5 | 0.4 | 0.8 |
| Precision at rank 8 | 0.375 | 0.75 |
| Precision at rank 12 | 0.25 | 0.5 |
| Average Precision at rank 8  (calculating only the relevant) | 0.6095238095238095 | 0.9150793650793649 |

**Information Need 2**

1. colored contact lenses wear clean
2. Google, Bing
3. The number of duplicates removed when results were pooled: 0
4. The final pool size after duplicates are removed: 16
5. The total number of relevant results: 7

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| Number | Result URL | Is it relevant? | Relevance : why? |
| 1 | https://www.everydayhealth.com/skin-beauty/colored-contact-lenses.aspx#:~:text=Even%20if%20you%20don't,24%20hours%20before%20wearing%20them. | yes | Detailed instructions on how to wear, clean and wash colored contact lenses |
| 2 | https://www.streetdirectory.com/travel\_guide/26309/health/how\_to\_care\_for\_color\_contact\_lenses.html | yes | Different suggestions for different types of lenses including colored contact lenses. |
| 3 | https://www.nvisioncenters.com/contacts/colored-contact-risks/ | no | Mainly about eye infections and possible hazards  of colored contact lenses, lack suggestion for wearing and cleaning. |
| 4 | https://honeycolor.com/help/lens-care-tips | no | Only instructions for wearing contact lenses not colored contact lenses. |
| 5 | https://chiaralens.com/en/blog/how-to-take-care-of-colored-contact-lenses/ | yes | Specified tips for taking care of colored contact lenses. |
| 6 | https://www.cdc.gov/contactlenses/decorative-contacts.html | yes | Suggestions for cleaning all types of lenses including colored contact lenses. |
| 7 | https://www.lens.me/blog/how-long-can-you-wear-clear-or-colored-contact-lenses-for | yes | Tips for wearing steps of colored contact lenses. |
| 8 | https://www.1800contacts.com/eyesociety/colored-contact-lenses/ | yes | Detailed tips for both wearing and cleaning colored contact lenses. |
| 9 | https://www.allaboutvision.com/contacts/colored-contacts-astigmatism/ | yes | Professional tips from doctors to wear and clean colored contact lenses. |
| 10 | https://www.refinery29.com/en-us/color-contacts-safety | no | Mainly talk about how to choose colored contact lenses for festivals, lack information about wearing and cleaning suggestions. |
| 11 | https://www.perfectlensworld.com/articles/clean-contact-lenses-properly | no | Only about contact lenses not colored ones. |
| 12 | https://www.wikihow.com/Clean-Contact-Lenses | no | Only about cleaning contact lenses not colored ones. |
| 13 | https://www.youtube.com/watch?v=w4ad2YQOxRU | no | Video about cleaning contact lenses not colored ones. |
| 14 | https://www.verywellhealth.com/best-contact-lens-solutions-4580534 | no | Only about contact lenses not colored ones. |
| 15 | https://eyecandys.com/ | no | Totally an ecommerce website for selling colored contact lenses, no suggestions for wearing or cleaning. |
| 16 | https://www.freshlookcontacts.com/ | no | Totally an ecommerce website for selling colored contact lenses, no suggestions for wearing or cleaning. |

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| Metric | Search Engine 1 = Google | Search Engine 2 = Bing |
| Precision at rank 5 | 0.6 | 0.2 |
| Precision at rank 8 | 0.75 | 0.125 |
| Precision at rank 12 | 0.5 | 0.08333333333333333 |
| Average Precision at rank 8  (calculating only the relevant) | 0.7884920634920635 | 1.0 |

**Information Need 3**

1. best Italian wine how choose
2. Google, Bing
3. The number of duplicates removed when results were pooled: 3
4. The final pool size after duplicates are removed: 13
5. The total number of relevant results: 12

(There is one result duplicated but shares same rank location 6 in both Google and Bing: https://www.winemag.com/2019/06/18/a-beginners-guide-to-italian-wine/)

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| Number | Result URL | Is it relevant? | Relevance : why? |
| 1 | https://www.thespruceeats.com/top-italian-wines-to-try-3511441 | yes | Lists top brands of Italian wine. |
| 2 | https://www.delish.com/entertaining/wine/advice/g2445/italian-wine-guide/ | no | Only some weird links to urls mainly about wine in other countries and an advertisement for wine tasting classes, no details about how to choose the best Italian wines. |
| 3 | https://winefolly.com/deep-dive/italian-red-wines/ | yes | Detailed guides for choosing best Italian wines and brands. |
| 4 | https://www.independent.wine/2020/02/19/italian-red-wine-a-complete-guide-to-finding-your-favourite/ | yes | A complete guide to teach people how to choose Italian wines. |
| 5 | https://www.independent.wine/2020/04/07/the-ultimate-guide-to-the-best-italian-wine/ | yes | A complete guide to choose the best Italian wines with maps and tasting notes. |
| 6 | https://www.winemag.com/2019/06/18/a-beginners-guide-to-italian-wine/ | yes | Guide for beginners to choose best Italian wines based on their labels and countries of origin. |
| 7 | https://wine.lovetoknow.com/wiki/Best\_Italian\_Wines | yes | Detailed tips to choose best Italian wines based on brands and countries of origin. |
| 8 | https://www.winescholarguild.org/blog/top-ten-italian-red-wines-beginner-guide.html | yes | Provides ten best Italian wines for beginners. |
| 9 | https://www.reversewinesnob.com/search/label/italy/ | no | It is actually a wine brand’s website to introduce their products. |
| 10 | https://italianrestaurant.webagency22.com/how-to-choose-an-italian-wine/ | yes | Good article including detailed steps to choose best Italian wines with illustration. |
| 11 | https://wineindustryadvisor.com/2019/12/11/wine-spectators-selection-of-best-italian-wine-producers | yes | Recommendations of Italian wine from wine Spectators. |
| 12 | https://blog.vinfolio.com/2018/03/28/the-best-italian-wine-producers-to-add-to-your-collection/ | yes | Introduce top Italian wine producers and their brands. |
| 13 | https://www.forbes.com/sites/tomhyland/2018/12/21/best-italian-wines-of-the-year/?sh=42e6b1af33d6 | yes | Recommends Best Italian Wines  of different types with details. |

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| Metric | Search Engine 1 = Google | Search Engine 2 = Bing |
| Precision at rank 5 | 0.8 | 0.4 |
| Precision at rank 8 | 0.875 | 0.625 |
| Precision at rank 12 | 0.5833333333333334 | 0.4166666666666667 |
| Average Precision at rank 8  (calculating only the relevant) | 0.8260204081632653 | 0.4692857142857143 |