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| Identifier | Page title | Planned actions | Jay comments: 22-09-08 |
| kg-item-10 | Goals for representing knowledge | Need create new svg | Create single SVG combining text-left and text-right |
| kg-item-11 | Ontology | Can’t see any graph | HTML text only |
| kg-item-12 | The Gene Ontology (1) | Yes, it needs to re-create svg | Reuse existing PNG in <amp-img>. Source:  flybase-transparent-w877-h200.png has background-transparent |
| kg-item-13 | The Gene Ontology (2) | Already have graph, looking clear and good | Reuse one of:  GO-biological-process.svg GO-cellular-components.svg GO-molecular-function.svg |
| kg-item-14 | The GO branches | Empty page, can’t see any text or graph | Recreate this diagram    The GO branches has 3 components. see source for each component  Top image  replace arrow 1  https://en.wikipedia.org/wiki/Insulin\_receptor#/media/File:Insulin\_glucose\_metabolism.jpg  similar image:  https://www.researchgate.net/figure/Insulin-binds-to-insulin-receptor-and-induces-its-dimerization-and-auto-phosphorylation\_fig1\_340230064  Middle image:  https://vpmmanifold.com/read/1-cytology/section/630bd1bd-dc3d-439c-bdd9-fe13efc81432  on that page, search for “Schematic: Schematic emphasizing differences between phases of mitosis.”  Bottom image:  <https://micro.magnet.fsu.edu/cells/mitochondria/mitochondria.html> |
| kg-item-15 | Knowledge Graphs | Not show any graph | This is a 3 column grid columns left and right are HTML text  Recreate SVG for triangle + triangle-text only:    Will not use “arrow” |
| kg-item-16 | Example knowledge graphs | Here I can’t see any graph | HTML text only |
| kg-item-17 | Google Knowledge Graph | It’s ok, not need to again create, okay | this slide is a two column grid Source: google-search-vemurafenib.png in <amp-img> Will not use any red arrows for this slide Image source: <https://www.google.com/search?q=vemurafenib&oq=Vemurafenib&aqs=chrome.0.69i59i131i433i512j0i512l9.3879j0j15&sourceid=chrome&ie=UTF-8> |
| kg-item-18 | Why Knowledge Graphs? | Unclear, text and image, yes it need to re-create svg with new clear image | Create new SVG using three sources  Right side image source (breast cancer):  https://www.google.com/search?q=breast+cancer&sxsrf=ALiCzsYwqH2w\_q9KbP2A6rDW87f77Y-Qng%3A1662649901437&ei=LQYaY6ifGsGoptQP9YGmSA&ved=0ahUKEwjo6YrGvYX6AhVBlIkEHfWACQkQ4dUDCA0&uact=5&oq=breast+cancer&gs\_lcp=Cgdnd3Mtd2l6EAMyBAgjECcyBQgAEJECMgUIABCRAjIFCAAQkQIyBQgAEJECMgsIABCABBCxAxCDATIFCAAQgAQyCwgAEIAEELEDEIMBMgsIABCABBCxAxCDATIFCAAQgAQ6CggAEEcQ1gQQsAM6BAgAEEM6CwguEIAEELEDEIMBOggILhCxAxCDAToOCC4QgAQQsQMQgwEQ1AI6CwgAEIAEELEDEMkDOgUIABCSAzoLCC4QgAQQxwEQ0QM6CAgAELEDEIMBOggIABCABBCxA0oECEEYAEoECEYYAFC4ClizHGD0IGgCcAF4AIABhQKIAYsOkgEFMy45LjGYAQCgAQHIAQjAAQE&sclient=gws-wiz  Middle image source:  https://en.wikipedia.org/wiki/BRAF\_(gene)  https://upload.wikimedia.org/wikipedia/commons/a/af/Protein\_BRAF\_PDB\_1uwh.png  Left image source:  reuse: vemurafenib-w670-h1121.png  Vemurafenib diagram Source:  https://www.google.com/search?q=vemurafenib&oq=Vemurafenib&aqs=chrome.0.69i59i131i433i512j0i512l9.3879j0j15&sourceid=chrome&ie=UTF-8 |
| kg-item-19 | Implicit relations for hypothesis generation ABC model | Unclear, yes it needs to re-create svg | Create as SVG    Image will display width of slide  Slide has title Slide has attachment with text about Swanson |
| kg-item-20 | Open Discovery and Closed Discovery | Unclear, Yes it need to re-create svg | Subset of kg-item-19 |
| kg-item-21 | Example question: drug repurposing | Unclear, Yes it need to re-create svg | This is a two column grid HTML text in column 1 New SVG in column 2 |
| kg-item-22 | Implicit relations for hypothesis generation | Unclear, Yes it need to re-create svg with new clear image | Reuse subset from kg-item-20  Under “Drug” reuse: vemurafenib-w670-h1121.png  Under genes, reuse (from kg-item-18): https://en.wikipedia.org/wiki/BRAF\_(gene)  https://upload.wikimedia.org/wikipedia/commons/a/af/Protein\_BRAF\_PDB\_1uwh.png  Under disease, reuse (from kg-item-18): https://www.google.com/search?q=breast+cancer&sxsrf=ALiCzsYwqH2w\_q9KbP2A6rDW87f77Y-Qng%3A1662649901437&ei=LQYaY6ifGsGoptQP9YGmSA&ved=0ahUKEwjo6YrGvYX6AhVBlIkEHfWACQkQ4dUDCA0&uact=5&oq=breast+cancer&gs\_lcp=Cgdnd3Mtd2l6EAMyBAgjECcyBQgAEJECMgUIABCRAjIFCAAQkQIyBQgAEJECMgsIABCABBCxAxCDATIFCAAQgAQyCwgAEIAEELEDEIMBMgsIABCABBCxAxCDATIFCAAQgAQ6CggAEEcQ1gQQsAM6BAgAEEM6CwguEIAEELEDEIMBOggILhCxAxCDAToOCC4QgAQQsQMQgwEQ1AI6CwgAEIAEELEDEMkDOgUIABCSAzoLCC4QgAQQxwEQ0QM6CAgAELEDEIMBOggIABCABBCxA0oECEEYAEoECEYYAFC4ClizHGD0IGgCcAF4AIABhQKIAYsOkgEFMy45LjGYAQCgAQHIAQjAAQE&sclient=gws-wiz |
| kg-item-23 | Querying a knowledge graph with SPARQL | Have diagram without text, black box | This slide uses a 2 column grid column 1 is HTML text Column 2: reproduce as SVG: |
| kg-item-24 | Metformin’s unique id: Q19484 Treats property id: P2175 (1) | Unclear, Yes it need to re-create svg  with bottom table . | This slide features a single SVG (no columns) recreating this image:  The URL goes to an attachment |
| kg-item-25 | Metformin’s unique id: Q19484 Treats property id: P2175 (2) | Unclear, Yes it need to re-create svg, with bottom table . | Like kg-item-24, this page features a single SVG recreating this image: |
| kg-item-26 | Example question: drug repurposing | Unclear, Yes it need to re-create svg | This page uses H2 and H3 for text grid column 1 will display an SVG recreating this image:  Grid column 2 will display an SVG recreating this image: |
| kg-item-27 | Example question: repurposing Metformin | Unclear, Yes it need to re-create svg with background remove | This page uses a two column grid. Column 1 will feature an SVG recreating this image:  Column 2 will feature an SVG recreating this image:    the URL will move to an attachment |

Design points

Like Sowa, for SVG use NotoSans and font-size: 18  
Text-box-width equals 120% of text-string-length