



BlackFacts.com

Learn Black History. Teach Black History

Fact AI Overview

Current and Future Usage of AI Technologies in Blackfacts

Fact Linkage

The screenshot shows a web browser window with the Blackfacts website. The search results for 'elijah cummings' are displayed, showing 51 results. The first few fact cards are:

- Oct 17 2019**: 'A giant of integrity and knowledge has fallen': Washington reacts to the death of Rep. Elijah Cummings. Source: Washington Post: Breaking News, World, US, DC News & Analysis - The Washington Post.
- Jan 18 1951**: Cummings, Elijah E. (1951-2019). U.S. Congressman Elijah E. Cummings was born in Baltimore, Maryland on January 18, 1951. He received a B.A. degree from Howard University (Washington, D.C.) in 1973 and a J.D. degree from the University of Maryland (College Park) in 1976. Cummings, one of seven children of working class parents who...
- Oct 7 1897**: Elijah Muhammad. Name at birth: Eliza Pool or Elijah Poole. Source: Fact Monster - Black History. Sponsored by Christo Rey New York High School.
- Oct 7 1897**: Elijah Poole, aka The Honorable Elijah Muhammad, born. Source: Blackfacts.com. Sponsored by New York University.
- Oct 7 1897**: Elijah Muhammad - Birthday. Elijah Muhammad (born Elijah Robert Poole; October 7, 1897 – February 25, 1975) was a black-American religious leader, who led the Nation of Islam (NOI) from 1934 until his death in 1975.
- Mar 23 2012**: Elijah McCoy. Although the name Elijah McCoy may be unknown to most people, the enormity of his ingenuity and the quality of his inventions have created...

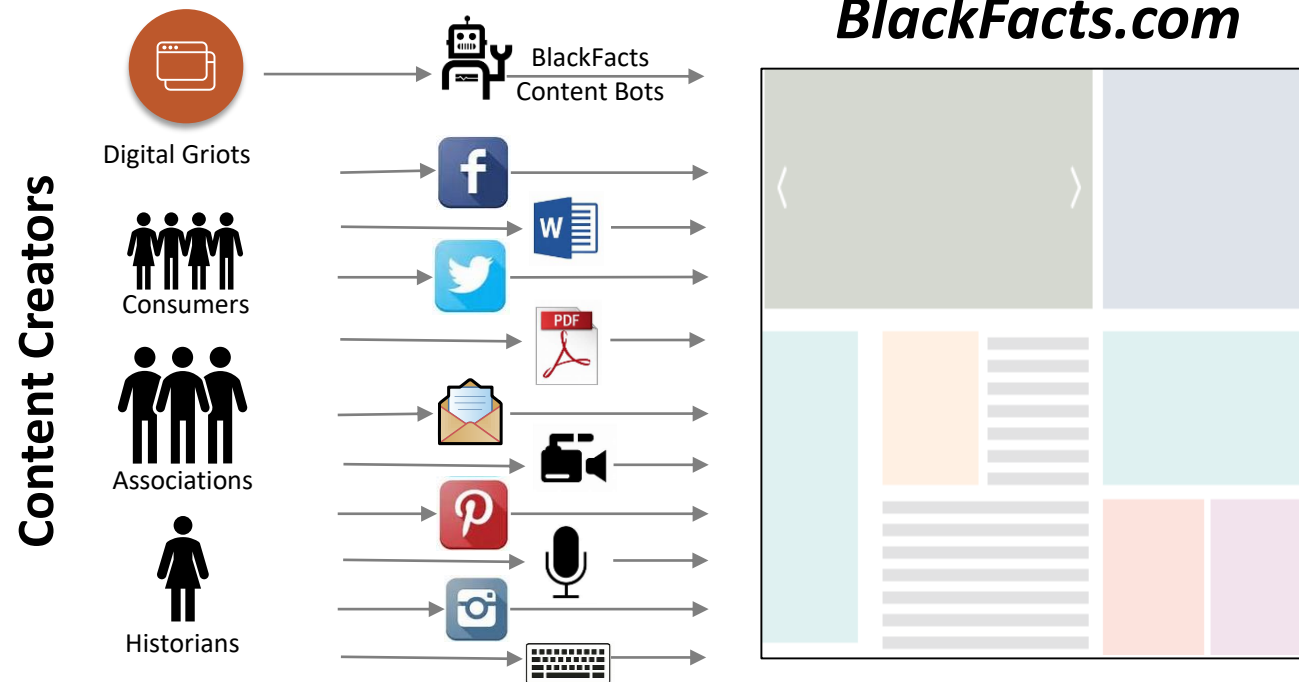
A core feature of Blackfacts is the linkage between 'Fact Cards' based on various types of searches.

This linkage is based on common factors between facts, and is the foundation of Blackfacts' efficacy as an educational tool, as it mirrors the human mind's process of associating pieces of information with each other.

This linkage can be based on both human and machine knowledge, but Blackfacts' future as The Black Wikipedia relies on evolving the machine learning functionality to a level where it will be able to categorize and link millions of facts accurately with minimal human intervention required.



Fact Sources



Black Facts content can come from a variety of sources, including:

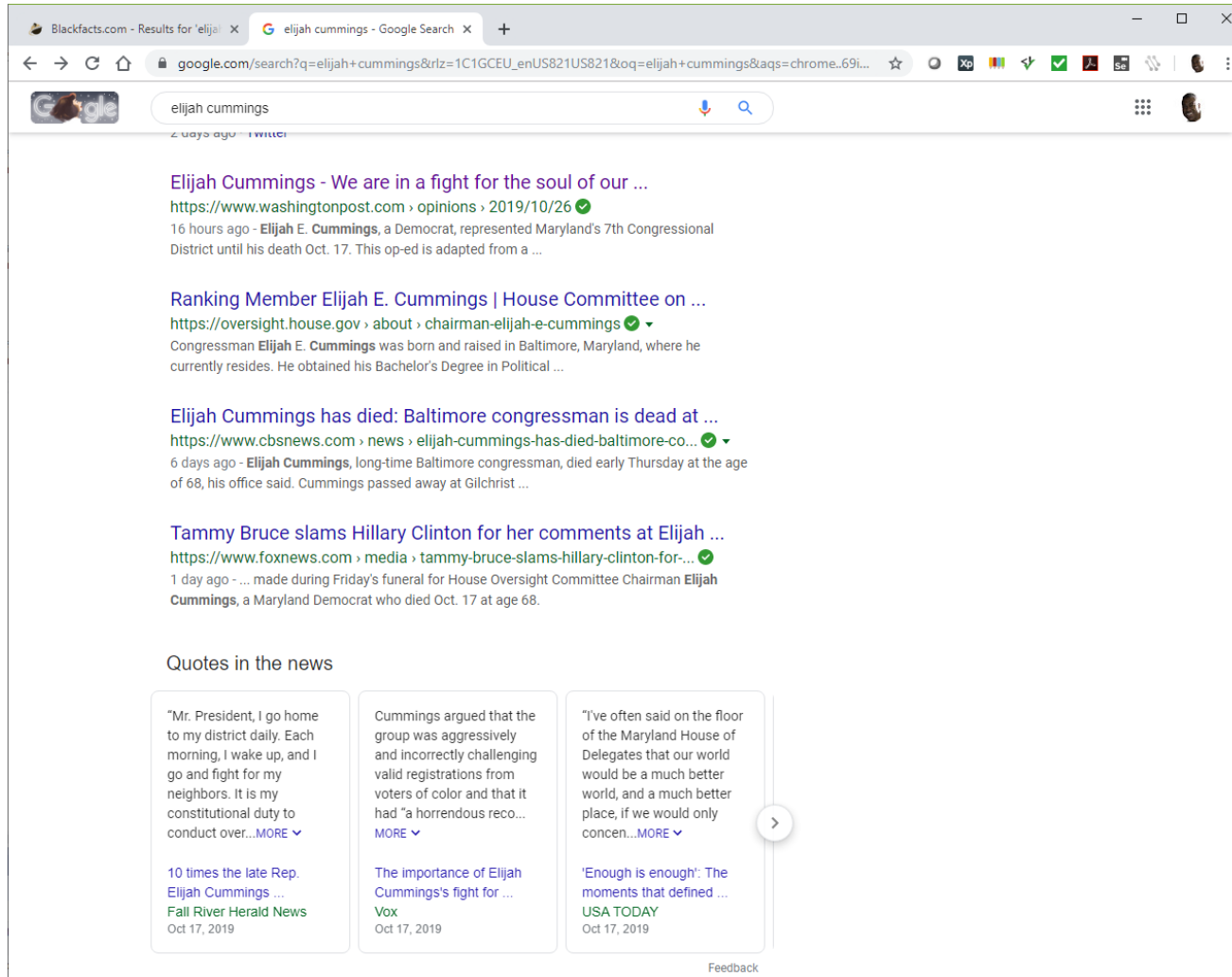
- Existing Historical Site Urls
- Online News Sites
- Member Uploaded Files
- Member Social Media Posts
- Member Emails
- Member Recorded Media

Regardless of the source, the text of the content is extracted as the 'lowest common denominator' required by the AI systems currently in use (image recognition etc is in the future) and analyzed by the AI systems to identify people, places, organizations, concepts, etc that can be used to link the Facts.

Fact submitters can also add additional people, places, etc into Blackfacts to augment the frequent lack of the AI systems recognizing them, as well as the AI systems linkages being limited to the submitted text (i.e. the text not mentioning well-known organization affiliations).



Add A Fact (Crowdsourcing Black History)



Currently, the most common Fact sources are online articles about historical or current people, events and organizations.

The image shows a Google search initiated outside of Blackfacts.com. Currently under development are in-site search tools as well as a browser extension that would enable submitting a Fact from any web page currently being viewed.



Add A Fact - Create

Blackfacts - Add Facts

blackfacts.com/add

Home About Us Marketplace Dashboard Featured My Blackfacts Just the Facts! Feedback

Facts by Date: Any Month Any Day Any Year SEARCH EVENTS

Facts by Channel: All Channels Type Search SEARCH ALL FACTS

Blackfacts.com - Black Fact Submission Page

ADD / EDIT BLACK FACTS: Logged in as Ken Granderson Fact: -- Add New Fact --

Step 1 - Create Your Fact Step 2 - Add Pictures Step 3 - Categorize Step 4 - Submit Fact Done!

Paste a Url, copy Word / PDF file or Type your Fact

Fact Type: Article Biography Business Event Meta Organization Place School Speech Video

Url: Paste Fact Url

Title: Fact Title

Smry: Fact Summary

Article Text: Fact Text

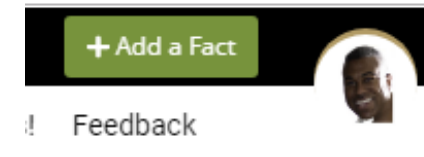
Creating a Fact:

1. Select the Fact Type.
2. Select values based on Fact Type (i.e. Date).
3. Create Fact Content by:
 - a. Typing Title / Summary / Text.
 - b. Copy / Paste / Type Url and click Url button.
 - c. Load Word document from computer by clicking Word button.
 - d. Load Adobe Acrobat document from computer by clicking Acrobat button.
 - e. Load Text file from computer by clicking Text button.
4. Edit Title / Summary / Text as needed.
5. Click the 'Step 2' arrow in the wizard bar above the data entry fields to continue.

Step 2 - Add Pictures

Blackfacts BETA RELEASE 11.5.3

This is the Add A Fact page, accessed by clicking the



button in the top right of any Blackfacts page, and logging in if necessary.



The 4 buttons by the 'Url' field enable adding Facts by pasting in a Url or uploading a Word, PDF or Text file. This presentation will demonstrate the Url scenario.



Add A Fact - Create

Blackfacts - Add Facts

blackfacts.com/add

Home About Us Marketplace Dashboard Featured My Blackfacts Just the Facts! Feedback

Facts by Date: Any Month Any Day Any Year SEARCH EVENTS

Facts by Channel: All Channels Type Search SEARCH ALL FACTS

Blackfacts.com - Black Fact Submission Page

ADD / EDIT BLACK FACTS: Logged in as Ken Granderson Fact: -- Add New Fact --

Step 1 - Create Your Fact Step 2 - Add Pictures Step 3 - Categorize Step 4 - Submit Fact Done!

Paste a Url, copy Word / PDF file or Type your Fact

Fact Type: ☒ Article ☐ Biography ☐ Business ☐ Event ☐ Meta ☐ Organization ☐ Place ☐ School ☐ Speech ☐ Video

Url:

Title:

Summary:

Article Text:

Creating a Fact:

1. Select the Fact Type.
2. Select values based on Fact Type (i.e. Date).
3. Create Fact Content by:
 - a. Typing Title / Summary / Text.
 - b. Copy / Paste / Type Url and click Url button.
 - c. Load Word document from computer by clicking Word button.
 - d. Load Adobe Acrobat document from computer by clicking Acrobat button.
 - e. Load Text file from computer by clicking Text button.
4. Edit Title / Summary / Text as needed.
5. Click the 'Step 2' arrow in the wizard bar above the data entry fields to continue.

Step 2 - Add Pictures

Blackfacts BETA RELEASE 11.5.3

This is the result of pasting the url https://www.washingtonpost.com/opinions/elijah-cummings-we-are-in-a-fight-for-the-soul-of-our-democracy/2019/10/26/cac744be-f4fd-11e9-a285-882a8e386a96_story.html into the 'Url' field, and clicking the green globe button.

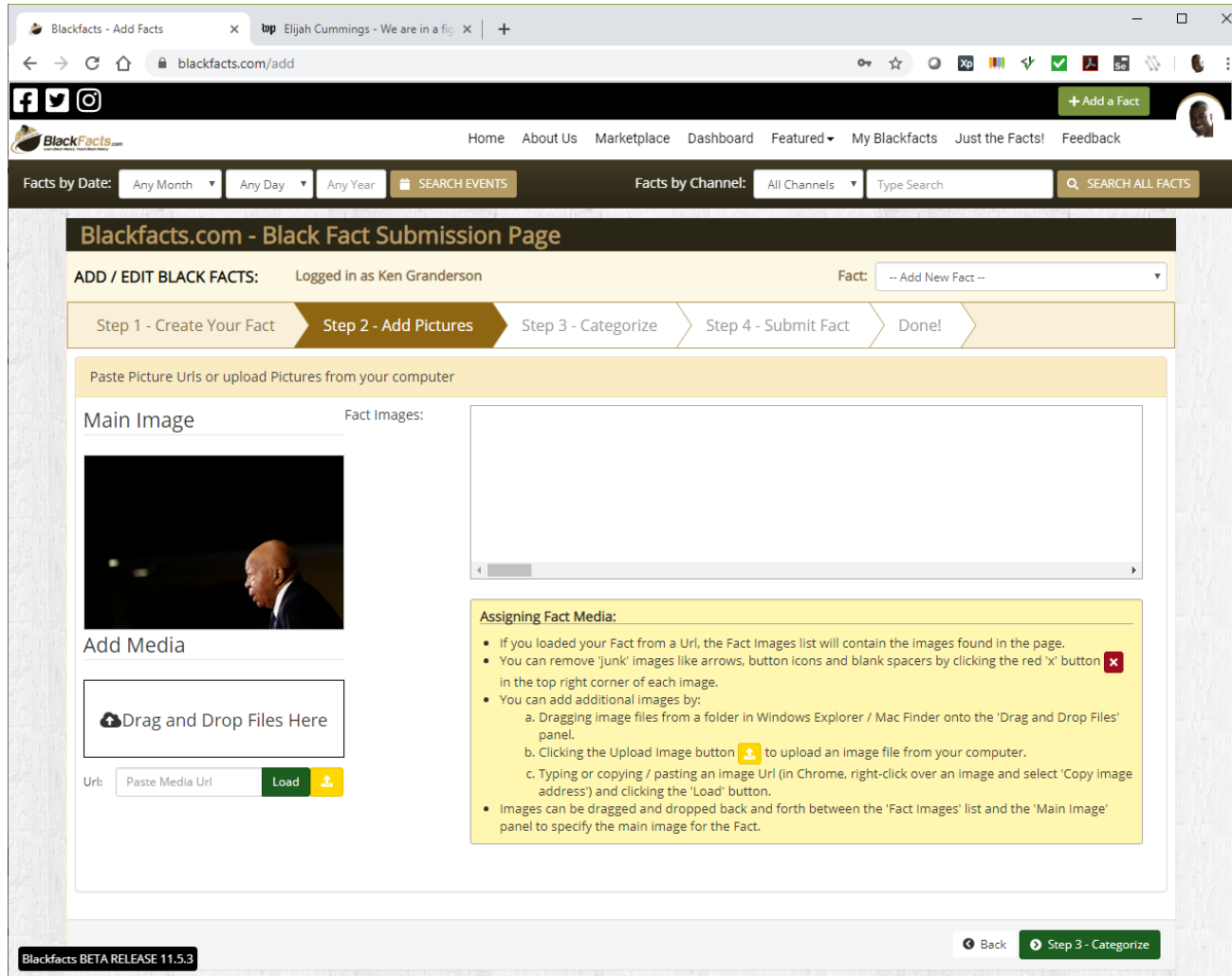
This submits the url to Aylien.com, one of 2 external services Blackfacts uses for AI analysis, to extract the article content and (hopefully) identify the main article image.

In addition to Aylien's article extraction, Blackfacts uses IBM Watson in addition to Aylien for Entity (place/place/organization) analysis, and has designed the AI service subsystem in an open manner such that we can easily add additional AI engines, like Azure Cognitive Services, AWS offerings, etc.

Other than the underlying application framework (.NET) and some freely available application widgets, the external AI systems are the ONLY third-party technologies used in Blackfacts. Everything else is our own intellectual property.



Add A Fact - Media



The screenshot shows the 'Add Pictures' tab in the Blackfacts.com submission process. The page is titled 'Blackfacts.com - Black Fact Submission Page' and shows the user is logged in as Ken Granderson. The process is in Step 2 of 4. The 'Main Image' section displays a profile picture of a man. The 'Add Media' section includes a 'Drag and Drop Files Here' area and a 'Url' field with a 'Load' button. A yellow box titled 'Assigning Fact Media:' provides instructions on how to add and manage images.

Blackfacts.com - Black Fact Submission Page

ADD / EDIT BLACK FACTS: Logged in as Ken Granderson

Fact: -- Add New Fact --

Step 1 - Create Your Fact | **Step 2 - Add Pictures** | Step 3 - Categorize | Step 4 - Submit Fact | Done!

Paste Picture Urls or upload Pictures from your computer

Main Image

Fact Images:

Add Media

Drag and Drop Files Here

Url:

Assigning Fact Media:

- If you loaded your Fact from a Url, the Fact Images list will contain the images found in the page.
- You can remove 'junk' images like arrows, button icons and blank spacers by clicking the red 'x' button in the top right corner of each image.
- You can add additional images by:
 - a. Dragging image files from a folder in Windows Explorer / Mac Finder onto the 'Drag and Drop Files' panel.
 - b. Clicking the Upload Image button to upload an image file from your computer.
 - c. Typing or copying / pasting an image Url (in Chrome, right-click over an image and select 'Copy image address') and clicking the 'Load' button.
- Images can be dragged and dropped back and forth between the 'Fact Images' list and the 'Main Image' panel to specify the main image for the Fact.

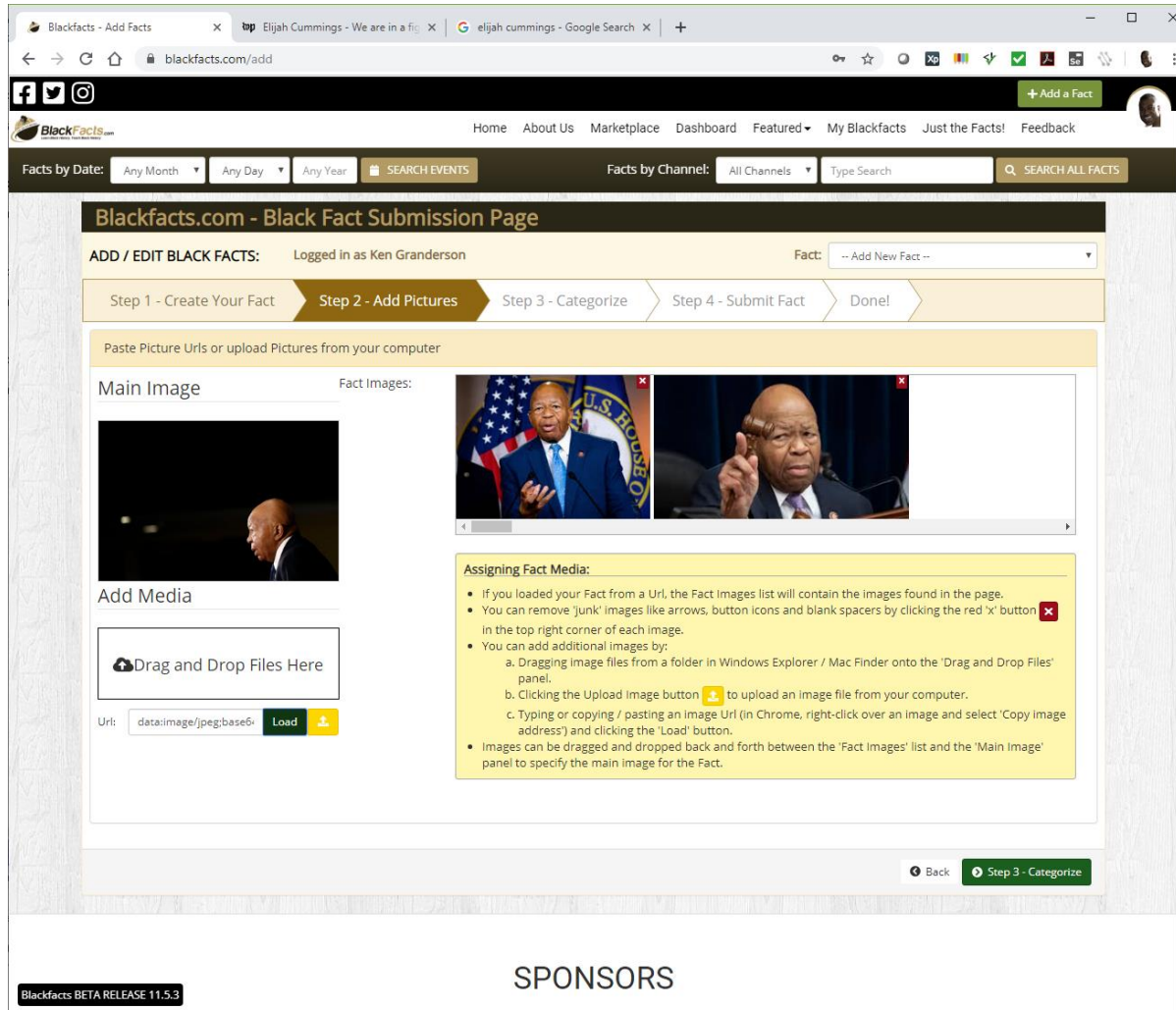
Blackfacts BETA RELEASE 11.5.3

This is the 'Add Pictures' tab, showing the main article image successfully identified by Aylien.

Additional images can be added by copying / pasting their locations for a browser page into the 'Url' field, or dragging and dropping them from your computer.



Add A Fact - Media



This is the result of doing a Google Image search for 'Elijah cummings,' right-clicking a couple of images and selecting 'Copy Image Address' and then pasting them into the 'Url' field.

Once in this screen, images can be made the Primary Fact Image (which shows up in the Fact Card view) by dragging it over to the left image box.



Add A Fact - Channels

Blackfacts - Add Facts

blackfacts.com/add

Home About Us Marketplace Dashboard Featured My Blackfacts Just the Facts! Feedback

Facts by Date: Any Month Any Day Any Year SEARCH EVENTS

Facts by Channel: All Channels Type Search SEARCH ALL FACTS

Blackfacts.com - Black Fact Submission Page

ADD / EDIT BLACK FACTS: Logged in as Ken Granderson Fact: -- Add New Fact --

Step 1 - Create Your Fact Step 2 - Add Pictures Step 3 - Categorize Step 4 - Submit Fact Done!

Select your Fact Channels

Blackfacts.com Fact Channels:

<input type="checkbox"/> AALAS Nominees	<input type="checkbox"/> Afro-Latino	<input type="checkbox"/> Arts	<input type="checkbox"/> Birthdays
<input type="checkbox"/> Business	<input checked="" type="checkbox"/> Community Organizing	<input type="checkbox"/> Cuisine	<input type="checkbox"/> Cultures
<input type="checkbox"/> Dance	<input type="checkbox"/> Education	<input type="checkbox"/> Entertainment	<input type="checkbox"/> Entrepreneurs
<input type="checkbox"/> Fight The Power	<input type="checkbox"/> Film	<input type="checkbox"/> Folklore and Myth	<input type="checkbox"/> Health
<input type="checkbox"/> Holidays	<input type="checkbox"/> How-Tos	<input type="checkbox"/> Inventors	<input type="checkbox"/> Journalism
<input type="checkbox"/> Kids	<input type="checkbox"/> Kwanzaa	<input checked="" type="checkbox"/> Law	<input type="checkbox"/> Lifestyle
<input type="checkbox"/> Literature	<input type="checkbox"/> Military	<input type="checkbox"/> Music	<input type="checkbox"/> News
<input checked="" type="checkbox"/> Politics	<input type="checkbox"/> Recipes	<input type="checkbox"/> Sciences	<input type="checkbox"/> Spirituality
<input type="checkbox"/> Sports	<input type="checkbox"/> Training	<input type="checkbox"/> Women	

Categorizing Your Fact:

1. Check the Fact Channels that are most relevant to your Fact.
2. You can check more than one Channel.
3. Then, click the 'Submit Fact' arrow to continue.

Back Step 4 - Submit Fact

SPONSORS

ALPFA APEX MASTER MERCHANT PRIDE ACADEMY CHARTER SCHOOL IMSA NATIONAL BLACK MBA ASSOCIATION, INC. CR+DS MBLA CRISTO REY SEV

Blackfacts BETA RELEASE 11.5.3

Blackfacts Channels (also shown as Categories, oops, we will update for consistency) are human-organized groupings of Facts based on contextual similarity.

Channels are a primary grouping of Facts for search purposes, used to generate Channel Pages for Facts about Arts, Business, Politics, etc.

Several Channels (i.e. Afro-Latino) will not appear in the main Channels list until they contain enough content to fill up a Channel page. Including them in the Add A Fact page (and adding new Channels based on submissions) enables us to have new Channels reflect user interests.

Facts by Channel: All Channels Type Search SEARCH ALL FACTS

Channels are distinct from Categories, which are automatically classified by the AI engines, and are over 430 in number.



Add A Fact - Ownership

Blackfacts.com - Black Fact Submission Page

ADD / EDIT BLACK FACTS: Logged in as Ken Granderson Fact: -- Add New Fact --

Step 1 - Create Your Fact Step 2 - Add Pictures Step 3 - Categorize Step 4 - Submit Fact Done!

Confirm your Fact Source Authorship

At Blackfacts.com, one of our core principles is to use our platform to support independent and commercial authors who create content that documents Black History.

We also support and respect copyrights and want to use other folks' content only in the context of the Fair Use Doctrine, as we do not create content, but create technology to help promote content written by others.

Thus, when you submit something to Blackfacts, we need you to tell us whether it is something that you wrote yourself (in which case we will display the full text on the Blackfacts Fact Details Page), or is something you linked to or copied from an external source (in which case we will only display the Summary on the Blackfacts Fact Details Page and will link to the full content).

☐ My submission is original content. The full text will be displayed on BlackFacts.com.

☒ My submission is from a link or other already existing content. Only the Summary will be displayed on BlackFacts.com, with a link to the full content online.

Confirming Your Fact:

1. If you wrote your Black Fact or know that you have permission to post it in its entirety, click the option on the left.
2. If your Black Fact is from a remote Url, click the option on the right.
3. Then, click the Save button to save your Fact.

☒ I'm not a robot

SPONSORS

ALPFA APEX MASTER MERCHANT PRIDE ACADEMY IMSA NATIONAL BLACK MBA ASSOCIATION CR+DS MBLA CRISTO REY

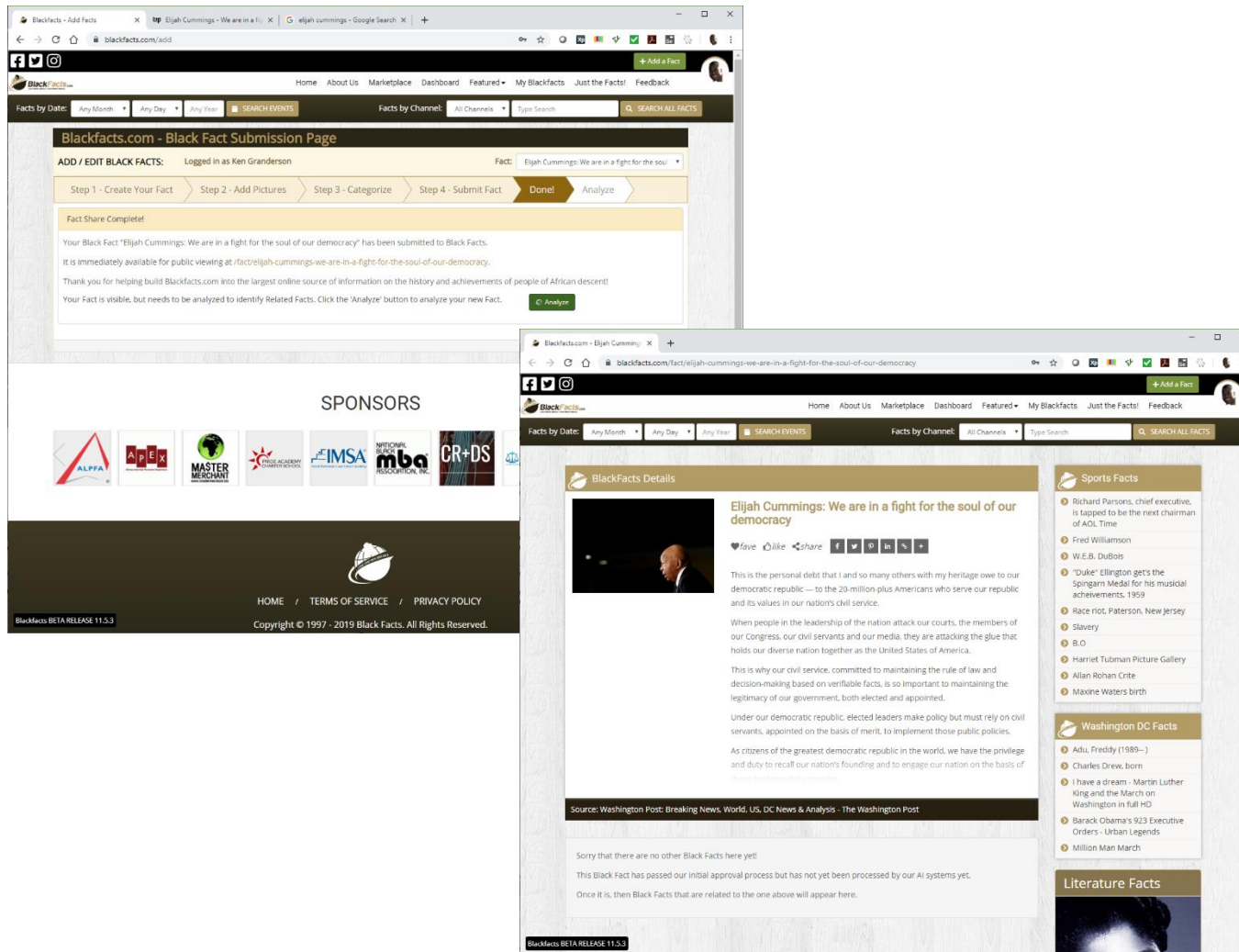
Blackfacts BETA RELEASE 11.5.3

The last step (for non-Admins) of Adding a Fact is indicating whether the submitted Fact is your own content, or shared from another source.

Blackfacts uses this information to control the amount of content displayed directly on Blackfacts before linking to the original source, so that we can stay in compliance with the Fair Use Doctrine and ensure that we are promoting sites that create and publish Black History content rather than replacing them.



Add A Fact – Done!



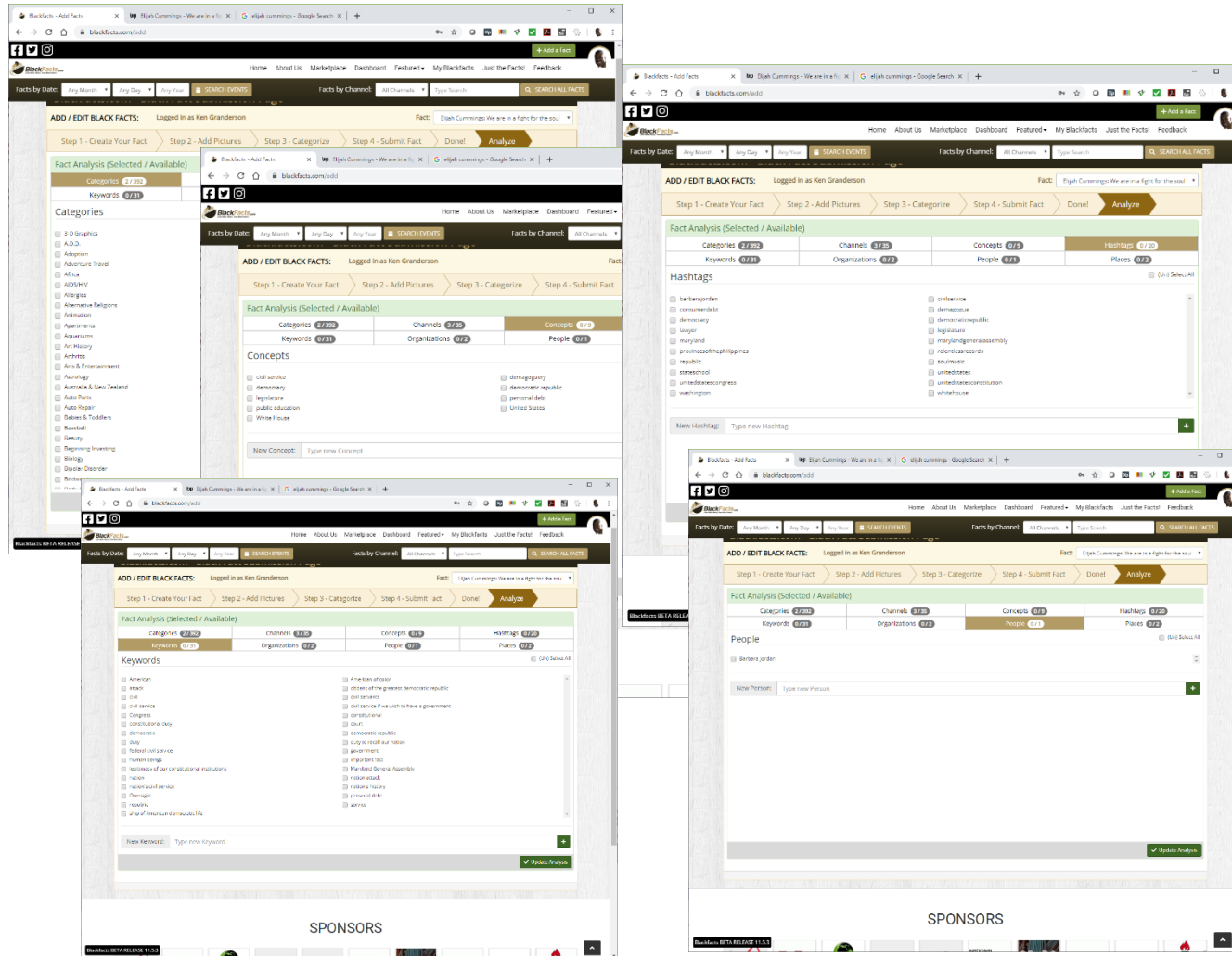
As I am an Admin, my 'Add A Fact' submissions are automatically accepted, and my submission is immediately available on Blackfacts, although as shown under the Fact Details widget, this new Fact has not yet been linked to any other Facts.

This is because I have not yet submitted the Fact to our Fact Analysis process, because we are currently not using trained AI models and so without human intervention, accepting all analysis results will generate an abundance of contextually irrelevant linkages, as well as the fact that the AI analysis costs money after a certain level of usage.

Back on the 'Add A Fact' page, I will click the 'Analyze' button to submit the new Fact for AI Analysis.



Add A Fact – AI Analysis



Blackfacts submits the entire Fact content to the 'Natural Language Understanding' services of Aylien and Watson, and returns their identification of the following:

- Categories
- Concepts
- Hashtags
- Keywords
- Organizations
- People
- Places

As shown in the screen captures, the results can often be less than comprehensive or accurate 😞

To be fair, sparse results like this are also often the result of content where people are discussing things that mattered TO the subject, rather than the subject themselves.



Add A Fact – AI Analysis

Blackfacts - Add Facts

blackfacts.com/add

Home About Us Marketplace Dashboard Featured My Blackfacts Just the Facts! Feedback

Facts by Date: Any Month Any Day Any Year SEARCH EVENTS

Facts by Channel: All Channels Type Search SEARCH ALL FACTS

ADD / EDIT BLACK FACTS: Logged in as Ken Granderson

Fact: Elijah Cummings: We are in a fight for the soul

Step 1 - Create Your Fact Step 2 - Add Pictures Step 3 - Categorize Step 4 - Submit Fact Done! Analyze

Fact Analysis (Selected / Available)

Categories 2 / 392	Channels 3 / 35	Concepts 0 / 9	Hashtags 0 / 20
Keywords 0 / 31	Organizations 1 / 3	People 1 / 2	Places 0 / 2

People (Un) Select All

☐ Barbara Jordan ☒ Elijah Cummings

New Person: Type new Person +

Update Analysis

SPONSORS

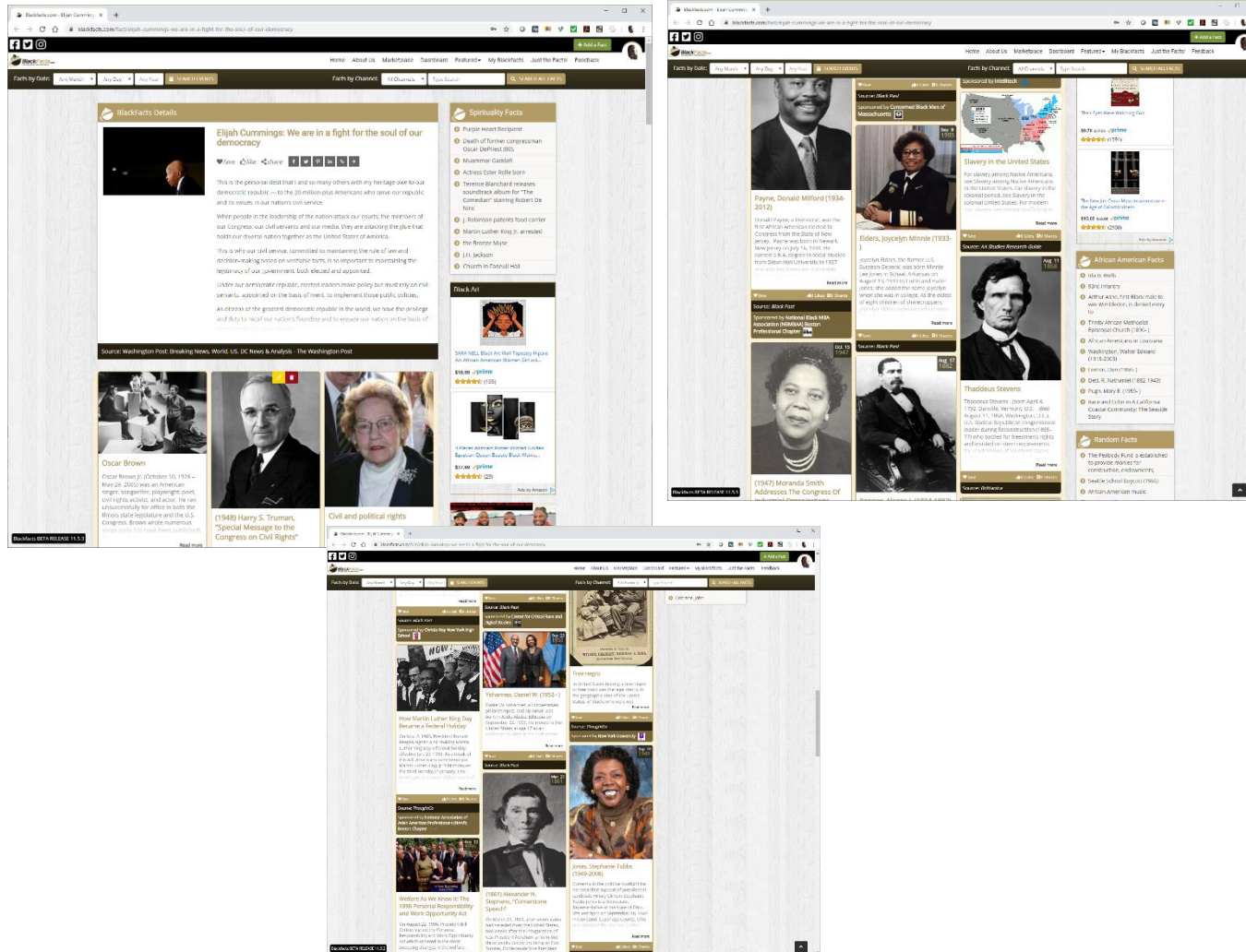
Blackfacts BETA RELEASE 11.5.3

As this is not surprising and actually indicative of the need for Blackfacts, we have built the ability for human operators to link Facts to People / Organizations / etc not recognized by the AI engines.

These manual linkages are stored in the Blackfacts databases, as well as an adjunct database we maintain called Blackfacts.org, for a future project concept of archiving and organizing black-related content on a global level primarily for research, rather than general consumer use.



Add A Fact – Result

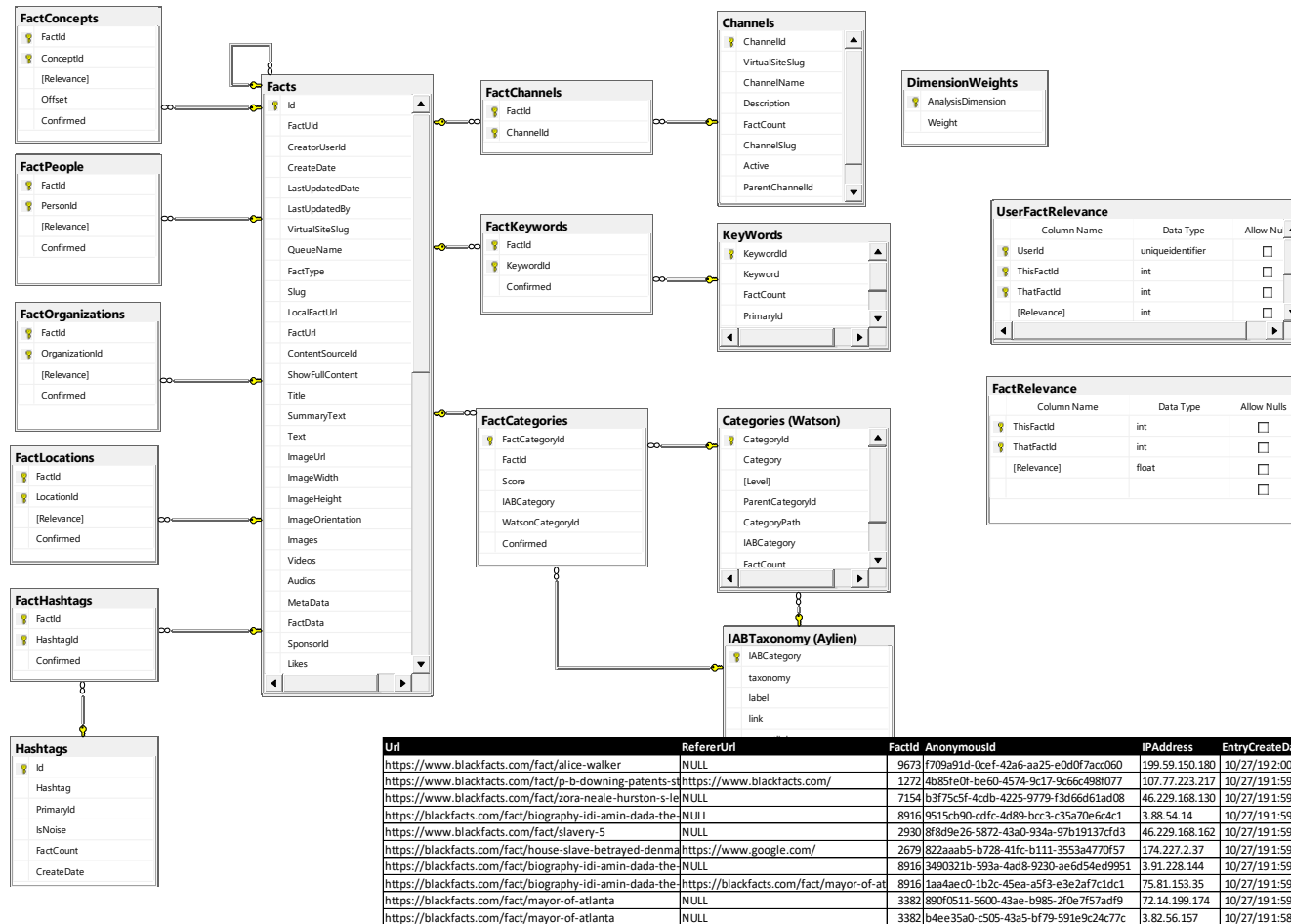


With the AI analysis data processed, reloading the page now shows other Black Facts that are related to the main Fact based on shared the AI analysis entities.

While the Blackfacts tech that reads external content, submits the content to the AI engines and then displays the content based on the analysis is doing its job, the inability of the AI engines ‘out of the box’ to provide richer and more contextually relevant linkages is preventing Blackfacts from delivering higher quality results.



Add A Fact – AI Analysis Challenges and Solutions



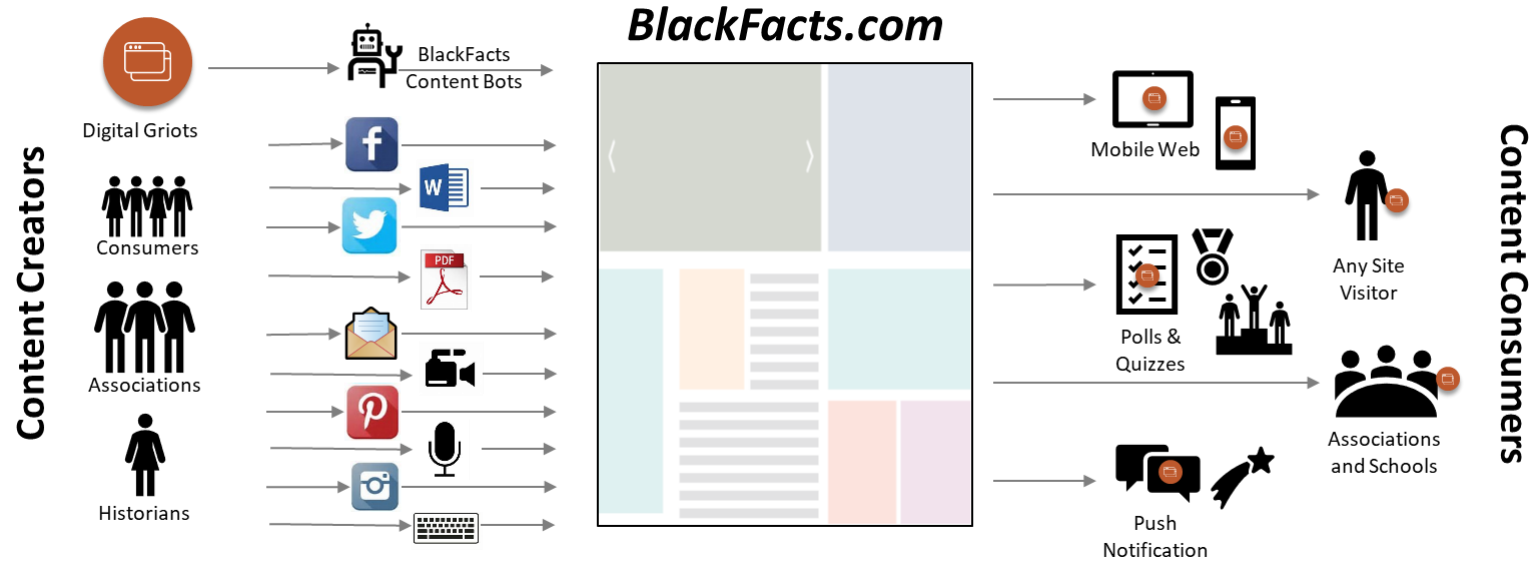
With our robust data models for both Fact analysis relationships and user activity, with better AI engine results, Blackfacts has the ability to generate more and more relevant Fact linkages as the basis for future features like:

- More Facts like this
- Show me more about subjects I like
- Show me more about subjects I don't know about
- Others who found this interesting
- Facts I might be interested in
- etc

We are confident that higher accuracy is achievable by using the learning data model capabilities of any of the AI engines. However, unlike the Natural Language Processing features that are offered at low volume for free, custom learning models have costs that will only be realistic to incur after Blackfacts has either achieved profitability through service offerings, or has secured significant external financing.



Blackfacts – Our Future is AI



Blackfacts ability to become 'The Black Wikipedia' and capture and preserve our stories, told by us, for all perpetuity, rests on three basic ideas:

1. Capture the Content – No matter where it is and what form it is in, get a textual representation of the information
2. Classify and Link the Content – Find common people, events, ideas, et cetera across separate content items, and create contextually appropriate linkages between them
3. Distribute the Content to People Wherever They Are – Make Blackfacts content available to the world whether they are mobile or desktop users, in school, on the train, at the gas station, in Dunkin Donuts, on their company intranet, looking at their cable TV Guide, wherever digital or printed content is found.

The Blackfacts Tech Team has the technical ability to achieve items #1 and #3 with our proprietary tech, third party tools, and #3 will require building relationships with external entities interested in our content, which is not expected to be a problem once we start marketing Blackfacts aggressively.

However, #2 requires significant investments of money and (initially) labor to arrive at the point where the AI systems will be able to operate with minimal human involvement and then become as scalable as other Blackfacts tech that has been developed without incurring significant labor costs.

Thus, we are looking to partner with academic or research institutions engaged in work that could benefit from our capabilities, who have the ability to write and win grants for research or product development in this space.



Following Slides

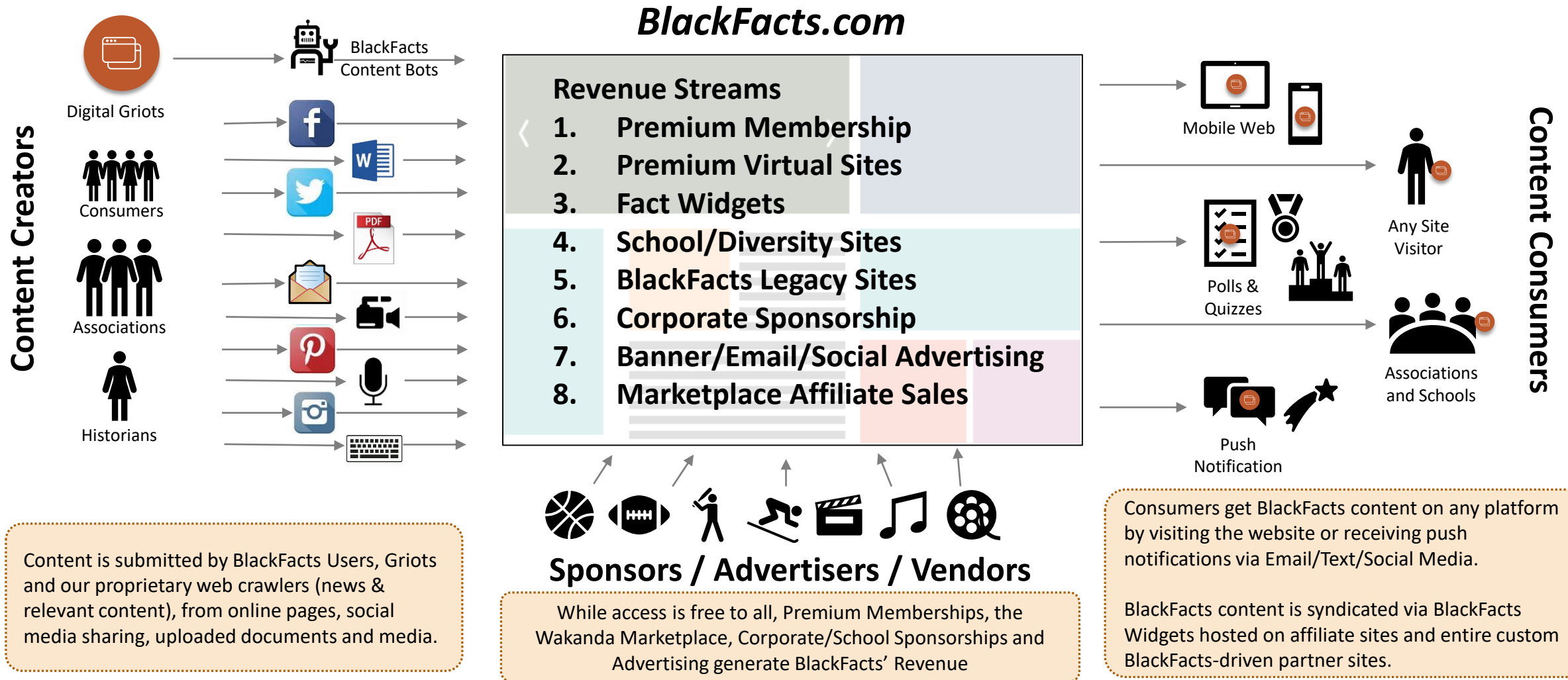
This concludes the Fact AI description.

The balance of the slides in this presentation are part of the Blackfacts Pitch Deck, included to answer some likely questions that may arise by viewers of this presentation, as well as to provide contact information if viewers of this presentation are interested in contacting us.



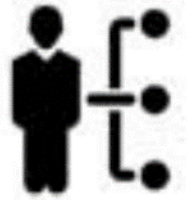


BlackFacts.com Core Business Model





BlackFacts.com Management Team



- **Ken Granderson** - Founder / Chief Technology Officer
MIT alumnus and Tech Visionary, Creating Ethnic Technology since 1995, Creator of BlackFacts.com, Roxbury.com, Official website of the Government of St. Lucia



- **Dale Dowdie** - Chief Executive Officer
Enterprise-Level Technical Consultant / Entrepreneur
Building Online Business Applications and facilitating Tech Transformation, Data Centers Buildouts and DR/BCP Strategies since the 1980s for Clients including, Harvard University, NASA, Multi-national Banks, Liberty Mutual, Staples, TJX, EDS, IBM, McCormick, MassHousing and the City of New York

Other Resources in Part-Time, Paid and Unpaid Consultant Roles:

Rick Van Rice (Business Development), James Mwihia (QA and Tech Support), Michelle Tutunjian (Operations Manager), Sandra Bone (Social Media), Beatriz Callejas (Social Media), Melanie Semedo (Social Media) and Offshore Development Resources in India (Pilots and Product Support)





Blackfacts.com: 3 Year Plan*

In order to meet our goals, we recognize the needs to make several improvements to our current site, particularly for Administration and Support of features for Members, Partners and Sponsors. We must also expand our reach by looking to new sources of content and implementing our strategic marketing plan. These features are being built/tested now for rollout in 2020.





BlackFacts.com – What's Next?

What are the key tasks to get BlackFacts.com ready for the Feb 2020 kickoff



AREAS OF FOCUS	DESCRIPTION	STATUS	ACTION
	Increased Membership Functionality	In Process	With our new membership model now available we must fine-tune and improve on the underlying functionality needed to support those members
	Update Administrative Tools	In Process	New Website Design, Branding and Technology will be a BIG part of our rollout and preparation for 2020
	Kick-off Marketing Campaign	In Process	Our Marketing campaign is a series of Email Campaigns using our email lists and social media outreach
	Begin Programs that drive revenue (ads, products, etc.)	Not Started	We have already had requests for Advertisement and Products Sales/Affiliate programs. We need to Pilot these offerings to enable them on the site
	Kick Off – Feb 2020 Event	No Started	Black History Month 2020 is the Event that signals the start of the next evolution for BlackFacts.com





Questions?



- **Ken Granderson** - Founder / Chief Technology Officer
ken@blackfacts.com
857-222-2318



- **Dale Dowdie** - Chief Executive Officer
ddowdie@blackfacts.com
781-858-6852



BlackFacts.com
Learn Black History. Teach Black History

