

Traversing the anthropographic design space: Understanding the choices the New York Times has made when visualising deaths during the Covid-19 pandemic

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Contemporary data visualisation practitioners are increasingly exploring data visualisation as a tool for generating emotional affect, prompting viewers to feel as well as to think. New visual languages are emerging as visualisation designers explore ways to engage their viewers with the emotional dimensions of the information they are communicating. The New York Times visualisations of deaths in the United States during the Covid-19 pandemic provide an excellent case study of how data visualisations can be designed to provoke strong emotional responses. These visualisations are examples of the emergent field of anthropographics, where data about people is visualised in a way that encourages the viewer to emotionally connect with the people being represented¹. This analysis focuses on major front page visualisations of Covid-19 deaths in the United States and accompanying interactive online works. Based on the principles of numeral aesthetics, which recognise the human tendency to focus on large round numbers², I have identified eleven front pages published at milestone figures from ten thousand to one million deaths (see appendix A). My analysis will examine this corpus, with a particular focus on the three most significant visualisations published in response to one hundred thousand, five hundred thousand, and one million deaths.

This essay will interrogate the data visualisation design decisions made by the New York Times using the anthropographics design space proposed by data visualisation researchers Morais, Jansen, Andrade, and Dragicevic. I will explore how the New York Times has traversed this design space over the course of the pandemic, applying different techniques at different times to selectively create closeness or distance between the people represented in the visualisations and

¹ Luiz Morais et al., "Showing Data About People: A Design Space of Anthropographics," *IEEE transactions on visualization and computer graphics* 28, no. 3 (2020), <https://doi.org/10.1109/TVCG.2020.3023013>, <https://go.exlibris.link/DNDpJdZ5>.

² Gaurav Jain et al., "Revisiting attribute framing: The impact of number roundedness on framing," *Organizational Behavior and Human Decision Processes* 161 (2020/11/01/ 2020), <https://doi.org/https://doi.org/10.1016/j.obhdp.2020.04.006>.

the people viewing them. This selective application of anthropographic design techniques is a result of enacting different design intentions, responding to the evolving context of the pandemic and the changing role played by the New York Times over the last two years. This essay will use a combination of visual analysis and the framework of the anthropographic design space to explore how different design choices provoke different emotional reactions. This application of the anthropographic design space will also be an informal test of the construct itself, validating its utility as a conceptual framework for analysing data visualisations.

The anthropographic design space is a relatively recent addition to the field of data visualisation research. It was first defined by Boy in 2017, who used term “anthropographics” as shorthand for “*anthropomorphized data graphics*”³ when outlining an initial design space for data visualisations representing data about people⁴. This design space was refined and extended by Morias et al., in their paper *Showing data about people: A design space of anthropographics*, released in 2020. Morias et al., propose an alternative definition of anthropographics:

*Visualizations that represent data about people in a way that is intended to promote prosocial feelings (e.g., compassion or empathy) or prosocial behavior (e.g., donating or helping).*⁵

This analysis will focus on the use of anthropographics to evoke prosocial feeling. Morias et al., proposed a design space that includes seven primary dimensions (see figure 1)⁶. This analysis will use this framework to articulate the design decisions apparent in the New York Times visualisations. The analysis will focus particularly on the elements of granularity, specificity, coverage, authenticity, and realism; as physicality and situatedness remain relatively constant when analyzing the corpus of digitized data visualisations. The New York Times has selectively applied anthropographic design elements in their visualisations, providing an opportunity to explore how different positioning within the design space can result in different emotional responses.

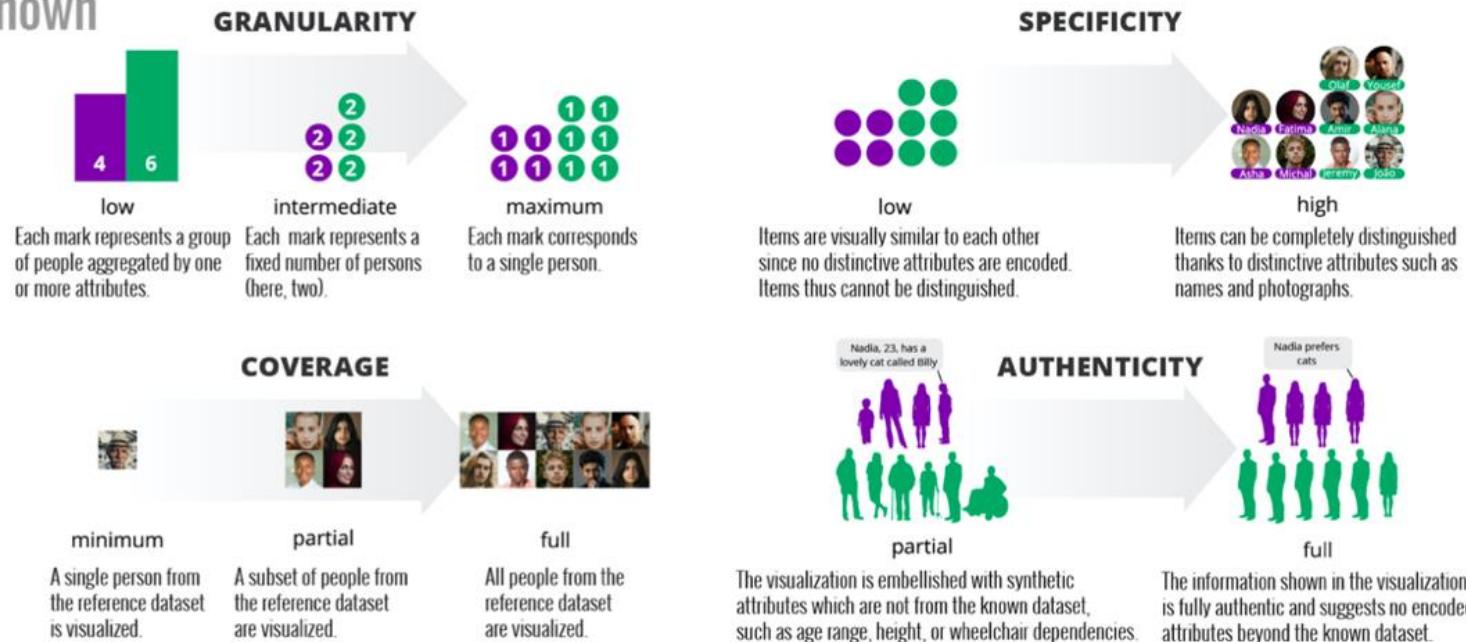
³ Jeremy Boy et al., "Showing People Behind Data: Does Anthropomorphizing Visualizations Elicit More Empathy for Human Rights Data?" (Proceedings of the 2017 CHI Conference on Human Factors in Computing Systems, Denver, Colorado, USA, Association for Computing Machinery, 2017).

⁴ Ibid.

⁵ "Showing Data About People: A Design Space of Anthropographics," 1661.

⁶ Ibid.

What is shown



How it is shown



Figure 1 Diagram of the anthropographic design space. Morais, Luiz, Yvonne Jansen, Nazareno Andrade, and Pierre Dragicevic. "Anthropographics Design Space." 2022. <https://luizaugustomm.github.io/pages/anthropographics-ds.html>.

This focus on emotional response positions anthropographics within an emerging ‘second wave’ of data visualisation⁷ practices. Traditionalist data visualisation discourse is deeply rooted in enlightenment era thinking that valorizes objectivity and either dismisses emotionality or positions it as actively detrimental⁸. Edward Tufte’s hugely influential works, such as *The Visual Display of Quantitative Information*⁹, enthusiastically engage with design choices as they relate to cognitive processing, while wholly disregarding emotional affect. “At their best” intones Tufte, “graphics are instruments for reasoning about quantitative information”¹⁰. The growing movement of data feminism rejects this ‘false binary’ of emotion and reason¹¹. Data feminism applies intersectional feminist thought to data practice, arguing for the importance of appreciating context, valuing multiple perspectives, and validating the consideration of emotional dimensions¹². In her 2017 manifesto *Data Humanism*¹³, prominent data visualisation practitioner Giorgia Lupi reminds us that:

data is numbers ~~people~~
data will make us more efficient ~~HUMAN~~.

Figure 2 Extract from Giorgia Lupi, "Data Humanism: The Revolutionary Future of Data Visualization," *Print*, 2017, <https://www.printmag.com/article/data-humanism-future-of-data-visualization>

Lupi challenges data visualisation designers to embrace complexity and subjectivity, to better consider context, and to explore more personal approaches to representing data. Lupi suggests that ‘first wave’ of data visualisation has built a familiarity with the existing language of data visualisation, and that the second wave should develop new visual languages that can communicate data in a way that both conveys knowledge and inspires feelings¹⁴.

⁷ Giorgia Lupi, "Data Humanism: The Revolutionary Future of Data Visualization," *Print*, 2017, <https://www.printmag.com/article/data-humanism-future-of-data-visualization/>.

⁸ Catherine D'Ignazio and Lauren F. Klein, *Data Feminism* (Cambridge: MIT Press, 2020); Helen Kennedy and Rosemary Lucy Hill, "The Feeling of Numbers: Emotions in Everyday Engagements with Data and Their Visualisation," *Sociology (Oxford)* 52, no. 4 (2018), <https://doi.org/10.1177/0038038516674675>, <https://go.exlibris.link/FJQrnR74>.

⁹ Edward R. Tufte, *The visual display of quantitative information*, 2nd ed. (Cheshire, Conn: Graphics Press, 2001). 1st ed published 1983.

¹⁰ Ibid, p12.

¹¹ D'Ignazio and Klein, *Data Feminism*; Kennedy and Hill, "The Feeling of Numbers: Emotions in Everyday Engagements with Data and Their Visualisation."

¹² D'Ignazio and Klein, *Data Feminism*; Kennedy and Hill, "The Feeling of Numbers: Emotions in Everyday Engagements with Data and Their Visualisation."; Lupi, "Data Humanism: The Revolutionary Future of Data Visualization."

¹³ Lupi, "Data Humanism: The Revolutionary Future of Data Visualization."

¹⁴ Ibid.

The New York Times visualisations of Covid-19 deaths in the United States present a case study of how these concepts can be applied in practice. The first example is the front page of the New York Times on May 24 2020, just a few months into the pandemic¹⁵ (see figure 4 and front page figure 1). The New York Times used the front four pages of the day's edition to print shortform obituaries of one thousand people who had died, representing one percent of the death toll¹⁶. For the first time in decades, the New York Times ran a front page with articles or graphics, instead devoting the space to humanising the “*incalculable loss*” of life¹⁷ in a powerful all-type design¹⁸.



Figure 3 Left – full front page; Right – detail. "U.S. Deaths near 100,000, an incalculable loss," *The New York Times*, 24/5/2020, Front page, <https://www.nytimes.com/issue/todayspaper/2020/05/24/todays-new-york-times>

Although this is not a conventional data visualisation, it is still an extremely graphical experience. The ceaseless list of names reminds me of the experience of staring up at the monumental walls in war memorials, focusing on one individual name while an overwhelming multitude hovers in the periphery. It's an extremely personal piece, building a very direct connection between the viewer and the people we are introduced to. Kyra, a 33-year-old from New York who volunteered for pet rescue organisations; Josephine, the 93-year-old who loved to dance; Roger, a retired firefighter; and so many others. This is a full authenticity, high specificity, and high granularity visualisation, with each shortform obituary so clearly representing a unique and very real person. The partial coverage

¹⁵ The New York Times, "U.S. Deaths near 100,000, an incalculable loss," *The New York Times*, 24/5/2020, Front page, <https://www.nytimes.com/issue/todayspaper/2020/05/24/todays-new-york-times>.

¹⁶ Times Insider, "The Project Behind a Front Page Full of Names," *The New York Times* 2020, Times Insider, <https://www.nytimes.com/2020/05/23/reader-center/coronavirus-new-york-times-front-page.html>.

¹⁷ The New York Times, "U.S. Deaths near 100,000, an incalculable loss."

¹⁸ Times Insider, "The Project Behind a Front Page Full of Names."

of this representation is pragmatic, as this detailed data would simply not available for each death. It's also likely that most viewers will read only a few of the entries, and it would be impossible to fully engage with a full listing of all one hundred thousand individuals. The 1% are sufficient. This powerful representation is deeply emotional and humanising, and the audience is reminded that there are ninety-nine thousand more people who are not listed.

The New York Times also published an online interactive¹⁹ as a companion to this piece (see figure 5). It's a full coverage visualisation that represents the people who have died as 100,000 ghostly figures – a tiny silhouette standing in for each person lost. Some of those figures are shown in a darker grey alongside their obituary text, an unsettling effect that makes some people feel more 'real' than others. This reduction in specificity creates two classes of people – the known and the unknown. I had a much more visceral response to this work than to the static front page, caused by the extremely discomforting interactive experience. The story of the pandemic so far is presented as an overlaid narrative that appears as you scroll through the work. If you scroll with your focus on the people, it is an endless crawl of grief. If you scroll with your focus on the narrative, the people fly by in a hideous blur. For many people, myself included, 2020 was a year of doomsrolling, and this piece is a return to that despair. It draws to the forefront the disconnect between flicking through an endless sea of headlines, and the actuality of the very real people that were dying.

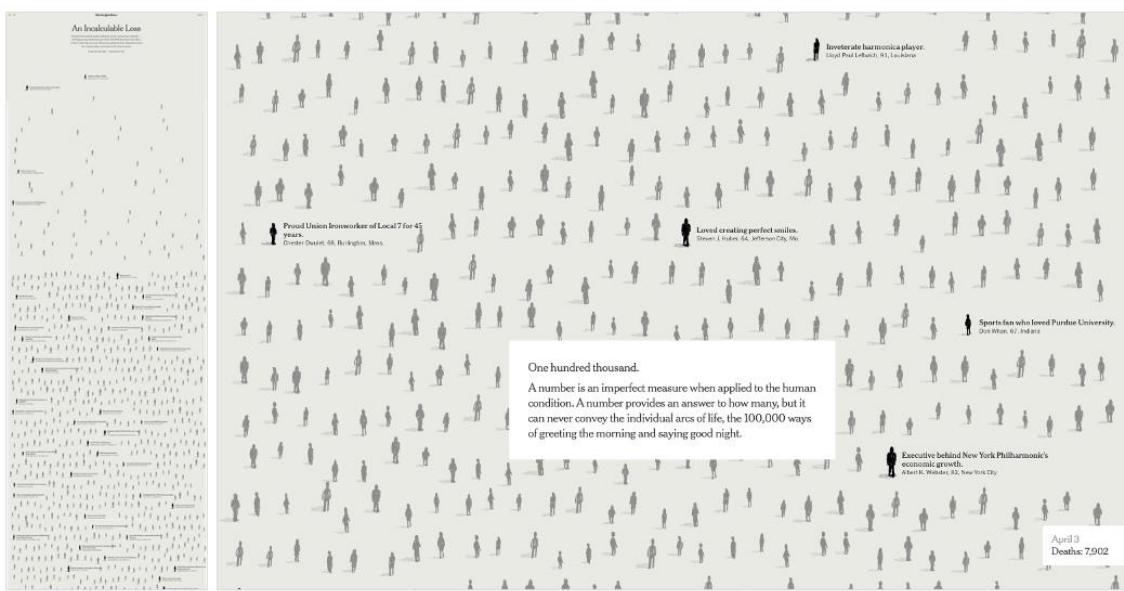


Figure 4 Left – expanded view; Right – detail. The New York Times. "An Incalculable Loss." 2020. Interactive data visualisation. <https://www.nytimes.com/interactive/2020/05/24/us/us-coronavirus-deaths-100000.html>

¹⁹ The New York Times, "An Incalculable Loss," (2020), Interactive data visualisation. <https://www.nytimes.com/interactive/2020/05/24/us/us-coronavirus-deaths-100000.html>.

The next selected example is the New York Times front page of February 21 2021²⁰, representing five hundred thousand deaths (see figure 6 and front page figure 5). This front page is a moment of profound stillness. Five hundred thousand people, five hundred thousand deaths, each marked as a single dot. Morais et al., describe this sort of maximum granularity, low specificity, low realism visualisation as an “information poor unit chart”²¹. Nothing is known about these people other than roughly when they died. Although individual dots can be distinguished, individual people cannot be identified. While this visualisation is ‘information poor’, it is emotionally rich. The sparsity of information leaves space for contemplation, allowing the viewer to construct their own connection with the people being represented. When I look at this visualisation, I imagine what it would be like to know that someone I love was one of those dots. Living in Australia, a country with a relatively low Covid-19 death rate, I struggle to picture myself as one of those dots; but my heart aches for all the people who looked at that front page knowing that someone they love was represented there. The building density in the graphic is horrifying, with the thick black bands at the bottom of the visual a graphic reminder that the situation was worsening, not improving.

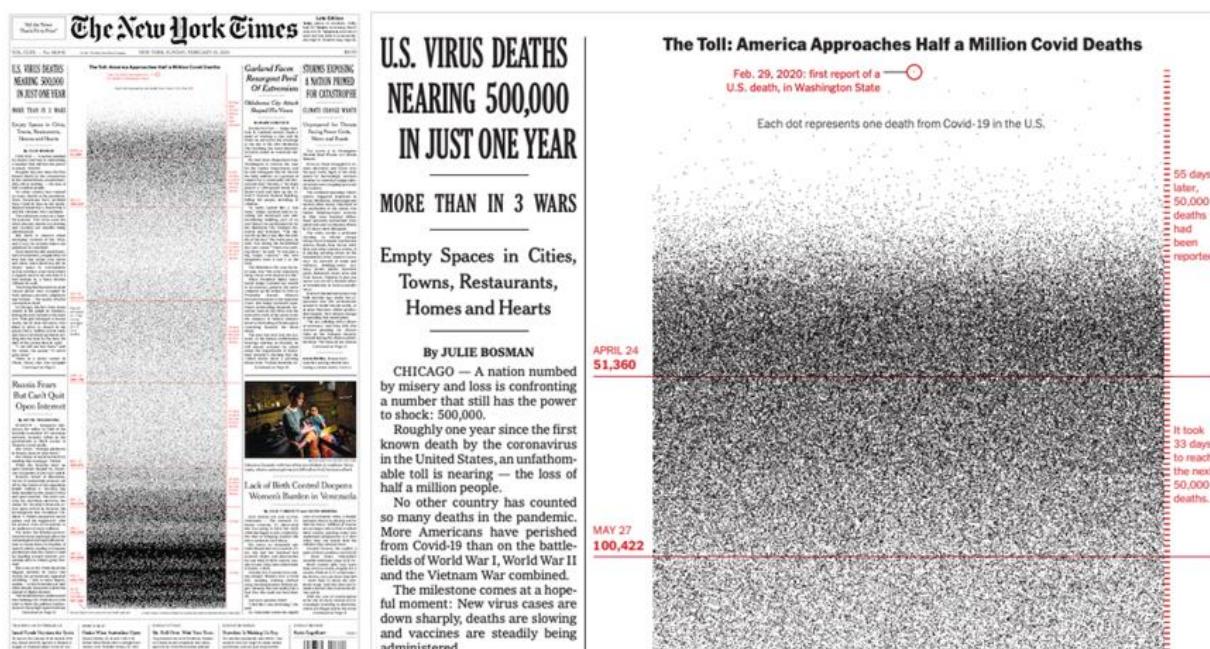


Figure 5 Left – full front page; Right – detail. "U.S. virus deaths nearing 500,000 in just one year," *The New York Times*, 21/2/2021, Front page, <https://www.nytimes.com/issue/todayspaper/2021/02/21/todays-new-york-times>

²⁰ The New York Times, "U.S. virus deaths nearing 500,000 in just one year," *The New York Times*, 21/2/2021, Front page, <https://www.nytimes.com/issue/todayspaper/2021/02/21/todays-new-york-times>.

²¹ Morais et al., "Showing Data About People: A Design Space of Anthropographics," 1674.

This visual analogy of one dot, one person was continued in the visualisations the New York Times produced when the USA reached one million deaths in May 2022. The front page of the paper was a full-page representation of each of those deaths laid out geographically (see figure 7 and front page figure 10). While this is again a full coverage, maximum granularity visualisation, the choice to include a geographical rather than temporal element produces a markedly different result. The front page graphic is arresting, but my immediate focus was on the geography of the country, rather than the people being represented. I see America, rather than seeing Americans. The graphic is, in essence, a population map; introducing a problematic element where dots in rural areas are much more distinguishable than those in cities, placing different emphasis on these lives. The authenticity of the visual analogy also begins to crumble given the realities of resolution, particularly in the digital reproductions of the front page. Densely populated areas become black blobs, lacking the pixels required for the required number of dots to exist, let alone be individually distinguished. This reduces the impact of the visualisation. While this front page is horrifying, I felt that the horror I experienced would also have been evoked by the headline alone.



Figure 6 Left – full front page; Right – detail. "One Million A nation's immeasurable grief," *The New York Times*, 15/5/2022, Front page, <https://www.nytimes.com/issue/todayspaper/2022/05/15/todays-new-york-times> and <https://www.facebook.com/nytimes/photos/a.283559809998/10152928820874999>

The Times also published an online interactive companion piece, “*How America lost 1 million people*”²², a longform story that weaves together data visualisation, photojournalism, and statistical deconstruction. My computer audibly groaned with the effort of attempting to render one million JavaScript objects, as I navigated through a scrollytelling experience that begins by representing these people as a dense fuzz of dots. As the viewer scrolls, the dots are transformed into and out of more traditional statistical forms (see figure 7), literally enacting shifts through the anthropographic design space. The animation of the dots is incongruous, giving a sense of liveliness to an element intended to represent death. It’s impossible to track a single dot throughout the scrollytelling journey, casting doubt on whether each dot is encoded with the authentic attributes of an individual. While the movement of the dots between these graphs undermines the visual analogy, their inclusion makes the visualisation much more informative, as it unpacks the demographic death rate disparities that have been absent in the previous milestone visualisations. This ‘information rich’²³ approach changes the focus of the experience. I found the amount of information encouraged me to engage cognitively, rather than emotionally. Even though the narrative is interspersed with very personal vignettes and repeated returns to the fuzz of the million dots, the statistical charts dominate the experience. The combination of the volume of information and the constant movement made it difficult to find a space for contemplation and connection. I learned more, but I felt less. The focus was on the numbers, rather than on the people they represented.

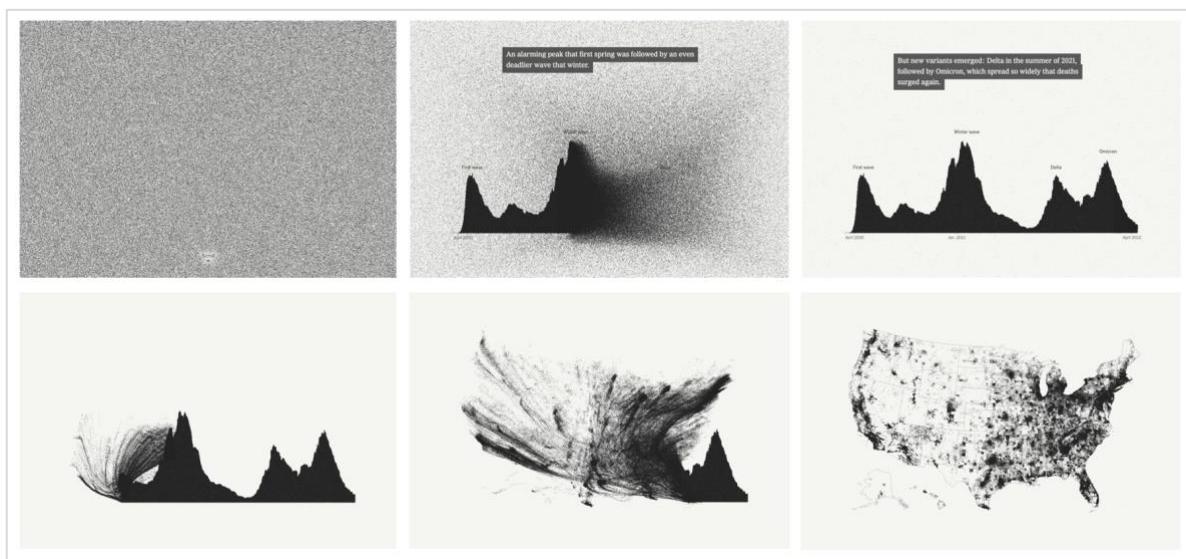


Figure 7 Detail screenshots. The New York Times, “How America lost one million people,” (2022), Interactive data visualisation. <https://www.nytimes.com/interactive/2022/05/13/us/covid-deaths-us-one-million.html>.

²² The New York Times, “How America lost one million people,” (2022), Interactive data visualisation. <https://www.nytimes.com/interactive/2022/05/13/us/covid-deaths-us-one-million.html>.

²³ Morais et al., “Showing Data About People: A Design Space of Anthropographics.”

This tension between focusing on the numbers and focusing on building a connection to the people they represent is apparent throughout the New York Times coverage of the pandemic (see key front page figures at Appendix A). The first front page visualisation of Covid-19 deaths was published when the United States reached ten thousand deaths. This visualisation was a series of small multiples focusing on communicating a rapidly increasing death rate. It was followed just six weeks later by the front page marking one hundred thousand deaths, with its explicit emphasis on connecting the audience to those lost so far. At two hundred thousand deaths, the front page focus was a photograph of a highly physical, highly situated installation artwork representing each death as a miniature American flag²⁴. At four hundred thousand deaths, while the visualisation was essentially a simple data table²⁵, the highly stylised tombstone-esque design gave it a sombre weight that dominated the page. Viewing the front page graphics published between May 2020 and February 2021 is an emotive experience. They include design elements that deliberately elicit an emotional response beyond that provoked by the death toll statistic alone.

After the publication of the five hundred thousand deaths dots in February 2021, a marked shift towards less provocative, more traditional statistical representation occurred. Six, seven, and eight hundred thousand deaths were marked by the emergence of cartographic and time series line charts on the front page, foregrounding time and place and distancing the viewers from the humans behind the numbers. This shift was made most stark in the representation of nine hundred thousand deaths, which was marked by a small map of county death rates over the previous 3 months²⁶. Instead of directly representing people who have died, this is a visualisation of comparative death rates. Instead of imagery that evokes humanity, the New York Times has chosen geography. Instead of being the focus of the front page, these nine hundred thousand people take third place to the Olympic Games and the economy. Although the one million deaths visualisation was a return to a more anthropographic design, it was still underpinned by a focus on geography and comparative statistical graphs. This retained a distance between the viewer and the people being represented. The journey that can be charted when examining the visualisations on these front pages illustrates

²⁴ The New York Times, "A nation's anguish as deaths near 200,000," *The New York Times*, 21/9/2020 2020, Front page, <https://www.nytimes.com/issue/todayspaper/2020/09/21/todays-new-york-times>.

²⁵ The New York Times, "In just five weeks, 100,000 more people have died from Covid-19," *The New York Times*, 19/1/2021 2021, Front page, <https://www.nytimes.com/issue/todayspaper/2021/01/19/todays-new-york-times>.

²⁶ The New York Times, "900,000 dead, but many Americans move on," *The New York Times*, 5/2/2022, Front page, <https://www.nytimes.com/issue/todayspaper/2022/02/05/todays-new-york-times>.

how the New York Times has selectively applied the principles of the anthropographic design space when telling the story of Americans lost during the Covid-19 pandemic.

The selective application of these anthropographic design elements is due to a multitude of factors, both pragmatic and contextual. Development of the highly anthropographic visualisations is undoubtedly time consuming, resource intensive, and much of their effectiveness is due to the uniqueness of the design. Attempting this type of anthropographic visualisation for every representation of American Covid-19 deaths would be impractical. It would also be inappropriate – traditional statistical data visualisation has also played a valuable role in building community understanding of the impact of Covid-19²⁷. These highly designed data visualisations have been just one element of the New York Times Covid-19 coverage, which also included extensive reporting, data collection and dissemination²⁸, photojournalism, and a major obituary project²⁹. While a full analysis of all New York Times Covid-19 reporting is outside the scope of this essay, general reading suggests that there have been shifts in the newspaper's reporting approach during the pandemic.

Albert Sun, a New York Times graphics editor, reflected on the changes:

I would frequently think about... how we've changed from covering this pandemic as a breaking news story to covering it as a dominant story, to now covering it as one story among many that will never truly end.³⁰

This shift towards the 'new normal' has undoubtedly affected the New York Times reporting, reflecting the change in broader public discourse about the pandemic. The headline "900,000 dead, but many Americans move on" is a clear illustration of this shift; with the New York Times now prompting their audience that it is time to move on. A move away from the highly emotive visualisations of the earlier pandemic is an expression of how the reporting of the New York Times has changed in response to the changing context.

²⁷ Emily Bowe, Erin Simmons, and Shannon Mattern, "Learning from lines: Critical COVID data visualizations and the quarantine quotidian," *Big data & society* 7, no. 2 (2020), <https://doi.org/10.1177/2053951720939236>.

²⁸ Times Insider, "10 Million Data Requests: How Our Covid Team Tracked the Pandemic," *The New York Times* 2021, <https://www.nytimes.com/2021/06/24/insider/covid-tracking-data.html>.

²⁹ Times Insider, "'Those We've Lost,' a Chronicle of Covid Death, Comes to a Halt," *The New York Times* 2021, <https://www.nytimes.com/2021/06/04/insider/covid-obituaries-those-lost.html>; Times Insider, "Faces That Can't Be Forgotten," *The New York Times* 2020, Times Insider, <https://www.nytimes.com/2020/04/16/reader-center/coronavirus-obits.html>; Times Insider, "'Those We've Lost,' a Chronicle of Covid Death, Comes to a Halt."

³⁰ Times Insider, "Remembering One in One Million," *The New York Times* 2022, <https://www.nytimes.com/2022/05/15/insider/remembering-one-in-one-million.html>.

A driving force in this change appears to be a decreased need for the New York Times to influence pro-social feelings or behaviours, one of the major motivating factors for applying anthropographic design techniques. In the early stages of the pandemic, ‘flatten the curve’ was a widely circulated pro-social call to action, encouraging people to take preventative measures to avoid spikes in case numbers that could overload strained healthcare systems³¹. The curve was a visualisation of case numbers, and anthropographics such as those published by the New York Times were highlighted the reality of the lives lost behind those curves³². This rhetoric has changed as community awareness increased and vaccinations became widely available. The call to ‘flatten the curve’ has fallen out of circulation, replaced by a mantra of ‘living with Covid’. In the United States, this shift has been compounded by dramatic changes in the political landscape. A presidential election and change of administration occurred over late 2021 and into early 2022, marking a significant shift in how the United States government engaged with Covid-19. In the early phase of the pandemic, the former Trump administration repeatedly refused to engage with the public health crisis, and President Trump infamously went golfing on the same day that the death toll reached one hundred thousand³³. This sparked an online art protest where artists used the front page of the New York Times as a canvas to highlight the President’s disregard for the immense loss of life (see figure 9). This leadership void resulted in an increased need for non-government actors, such as the New York Times, to drive community education and pro-social behavioural change. As the political landscape has changed, so too has the role of the New York Times Covid-19 reporting.



Figure 8 Protest artworks in Sarah Cascone, "In a 'Mass Art Protest,' Artists Across America Drew Trump Playing Golf on the NYTimes Cover Memorializing the 100,000 Coronavirus Dead," Artnet, 27 May 2020, 2020, <https://news.artnet.com/art-world/artists-protest-trump-golfing-nyt-1871130>. Left – artist Marcel Dzama; centre left – artist Eric Van Vaerenbergh; centre right – artist Alexandra Bowman; right – artist Joh Seckman.

³¹ Bowe, Simmons, and Mattern, "Learning from lines: Critical COVID data visualizations and the quarantine quotidian."

³² Ibid.

³³ Sarah Cascone, "In a 'Mass Art Protest,' Artists Across America Drew Trump Playing Golf on the NYTimes Cover Memorializing the 100,000 Coronavirus Dead," Artnet, 27 May 2020, 2020, <https://news.artnet.com/art-world/artists-protest-trump-golfing-nyt-1871130>.

One of the key roles played by the New York Times in the early stages of the pandemic was in the public expression of communal grief³⁴, which has also shifted over the past two years. 2020 and 2021 were characterised by lockdowns and other preventative measures that saw significant disruption to normal mourning rituals, leaving people who lost loved ones “*cut off from the usual ways of gathering and grieving*”³⁵. In response to this, the New York Times instigated the obituary series *Those We've Lost*. In this context, the role of the New York Times was not just to inform and educate, but to help to process and express the collective grief of the community³⁶. The high specificity *An Incalculable Loss* front page was a watershed moment in this form of grieving. Around the world, we've seen other forms of this expression, such as the community led *National Covid Memorial Wall* in London (see figure 10), a full coverage visualisation with a heart for every Covid death in the UK³⁷. Community members are invited to inscribe the details commemorating their loved ones, increasing the authenticity and specificity of the representation.

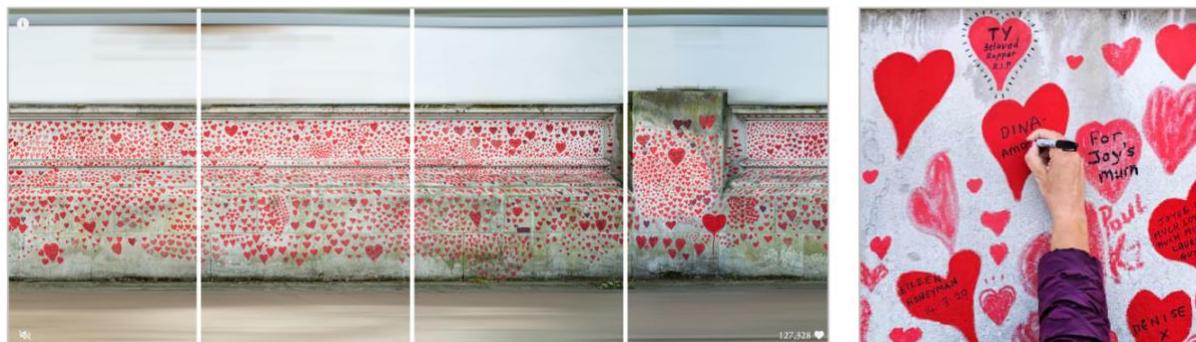


Figure 9 Left The National Covid Memorial Wall: Walk the wall: Digital representation of physical installation. 2021. Collaboration between Covid-19 Bereaved Families for Justice and Led By Donkeys, <https://nationalcovidmemorialwall.org/> Right detail photograph by Linda Nylynd in Dorian Lynskey, "Wall of love: the incredible story behind the national Covid memorial," The Guardian 2021, <https://www.theguardian.com/world/2021/jul/18/wall-of-love-the-incredible-story-behind-the-national-covid-memorial-led-by-donkeys>

The *National Covid Memorial Wall* is a living monument, maintained by volunteers and now taking on a digital life³⁸ that reaffirms the need for an outlet for this communal grief. In contrast, the New

³⁴ Times Insider, "'Those We've Lost,' a Chronicle of Covid Death, Comes to a Halt."; Times Insider, "Faces That Can't Be Forgotten."

³⁵ Times Insider, "A Virtual Memorial for Those We've Lost," *The New York Times* 2021, Times Insider, <https://www.nytimes.com/2021/04/06/insider/covid-grief-loss.html>.

³⁶ Times Insider, "Faces That Can't Be Forgotten."; Times Insider, "'Those We've Lost,' a Chronicle of Covid Death, Comes to a Halt."

³⁷ Dorian Lynskey, "Wall of love: the incredible story behind the national Covid memorial," The Guardian 2021, <https://www.theguardian.com/world/2021/jul/18/wall-of-love-the-incredible-story-behind-the-national-covid-memorial-led-by-donkeys>

³⁸ Covid-19 Bereaved Families for Justice and Led By Donkeys., *The National Covid Memorial Wall: Walk the wall*, 2021. Digital representation of physical installation.

York Times has recently made an editorial decision to step back from this role³⁹. Although the pandemic is not over, the severe disruption to normal grieving rituals has for the most part ended, and the Times sees their community as returning “*to a more normal life*”⁴⁰. Their shift in role has been most clearly signposted in the decision to end *Those We’ve Lost*⁴¹, but can also be seen in the move away from the high or intermediate specificity visualisations of the early pandemic.

The movement of the New York Times visualisations through the anthropographic design space appears to have also been influenced by how the Times has explicitly and implicitly responded to worsening psychic numbing as the death toll continued to rise. Psychic numbing is a term for the emotional disassociation that humans experience when confronted with death on such an enormous scale – the numbers are simply too large for us to meaningfully comprehend⁴². One New York Times art director commented that:

*Watching the numbers rise every day, it was easy to lose sight of the people behind the statistics. I wanted to find a way to humanize the death toll and re-establish the visibility of those who had died.*⁴³

The anthropographic visualisations are, in part, an attempt to re-establish that one hundred thousand deaths, five hundred thousand deaths, one million deaths, all carry the within them the weight of each individual death. This is a difficult, perhaps impossible task. The high specificity, high authenticity front page commemorating the loss of one hundred thousand lives was arguably their most successful attempt, rendering one thousand of those lost highly visible. Later visualisations have moved further and further from this initial visibility. Perhaps as the death toll continued to grow, so has the difficulty of attempting to meaningfully represent that loss. The Times has described these deaths as “*incalculable*”⁴⁴, “*immeasurable*”⁴⁵, and to this I would add ‘incomprehensible’. While the use of anthropographic design techniques may bring us emotionally closer to the loss, at such scale the numbers remain beyond our ability to meaningfully comprehend.

³⁹ Times Insider, “‘Those We’ve Lost,’ a Chronicle of Covid Death, Comes to a Halt.”

⁴⁰ Ibid.

⁴¹ Ibid.

⁴² Delia O’Hara, “Paul Slovic observes the ‘psychic numbing’ of COVID-19,” *American Psychological Association* (2020), <https://www.apa.org/members/content/covid-19-psychic-numbing>.

⁴³ Times Insider, “A Virtual Memorial for Those We’ve Lost.”

⁴⁴ The New York Times, “An Incalculable Loss.”

⁴⁵ The New York Times, “One million: a nation’s immeasurable grief,” *The New York Times*, 15/5/2022 2022, Front page, <https://www.nytimes.com/issue/todayspaper/2022/05/15/todays-new-york-times>.

The anthropographic design space proposed by Morias et al., has provided a useful conceptual framework for articulating how the New York Times approach to visualising Covid-19 deaths has changed in response to these factors. The formal definition of these dimensions has been valuable in articulating the differences between the visualisations and in understanding the resulting emotional affect. Morias et al., have proposed that their design space can be used by data visualisation researchers and practitioners to conceptualise and discuss anthropographic data visualisations⁴⁶. My research has demonstrated the utility of this framework in undertaking such analysis, an informal validation of their proposed aim. Morias et al., strongly emphasise the need for further empirical research to establish the effectiveness of anthropographic design techniques⁴⁷. Although my research does not address this need directly, I have sought to make sense of the proposed anthropographic design space through my personal experiences of viewing the selected visualisations, and by observing the documented responses of other people on social media (see figure 11). Although I have not explored the generation of pro-social behaviours, my observations provide anecdotal evidence that anthropographic design techniques can be used effectively to provoke pro-social feeling by creating a closer connection between the viewer and the people being represented.



Figure 10 Left - Twitter post: MJFanklin "The front page of The New York Times today is so sad and so devastating. Each dot in the middle graph represents one death from Covid-19 in the U.S. The death toll is almost 500,000." Twitter. Right - Facebook post and comments: The New York Times (2021). "The front page of The New York Times for Feb. 21, 2021, as the U.S. nears 500,000 dead from Covid-19. Each dot represents a life lost." Facebook.

⁴⁶ Morais et al., "Showing Data About People: A Design Space of Anthropographics."

⁴⁷ Morais et al., "Showing Data About People: A Design Space of Anthropographics."; Luiz Morais et al., "Can Anthropographics Promote Prosociality? A Review and Large-Sample Study" (paper presented at the CHI 2021 - Conference on Human Factors in Computing Systems, Yokohama / Virtual, Japan, 2021-05-08 2021).

In some ways, it seems too soon for this research. The pandemic is not over, people in the United States and around the world are still dying. The discourse has moved on, but the disease has not. The New York Times will continue to visualise Covid-19 deaths, and their approaches will continue to evolve in response to their changing contexts. In just over two years, we have seen the New York Times traverse the entire span of the anthropographic design space, selectively applying techniques that bring us closer or move us further away from the people represented in these visualisations. The early-stage pandemic visualisations were explicitly centred on creating connection; while those since mid-2021 have focused more on cognitive, rather than emotional, engagement. I suspect the distance we have seen since this shift will be ongoing, with the more highly anthropographic approaches revisited only for milestones or anniversaries, as with the recent one million deaths visualisation. Despite this shift, there has undeniably been a great deal of nuance and complexity in the data visualisations produced by the New York Times in response to the pandemic. Their visualisations of Covid-19 deaths of people in the United States have served multiple purposes: to inform and educate; to motivate us to protect ourselves and our community; and to remind us that each of those datapoints is a person, not just a statistic. These New York Times graphics exemplify the emerging role of anthropographics in the development of new visual languages within data visualisation. These new languages speak to a shift taking place within the field, with broadening perspectives on what data visualisation can do. We are no longer restricted to thinking of data visualisation as just the visual display of quantitative information, but as a medium that can evoke deeply emotional responses that can connect us to the humans behind the numbers.

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Appendix A

10,000 deaths

"All the News That's Fit to Print"

The New York Times

VOL. CLIX ... NO. 58,657 © 2020 The New York Times Company NEW YORK, WEDNESDAY, APRIL 8, 2020 \$3.00

How Outbreak Kept New York A Step Behind

Infighting, Delays and Unheeded Warnings

By J. DAVID GOODMAN

A 39-year-old woman took flight from China to John F. Kennedy International Airport in late February, the final leg of her trip home to New York City.

A week later, on March 1, she tested positive for the coronavirus in New York City of an outbreak that had already devastated China, part of it hidden. The next day, Gov. Andrew M. Cuomo, appearing at a news conference, promised that state health officials would track down every person on the woman's flight. But no one did.

At the time, in the New Rochelle, a New York City suburb, tested positive for the virus — an asymptomatic man who had not traveled to any affected country, suggesting community spread was already under way.

Although city investigators had traced the lawyer's whereabouts and connections to the most recent confirmed case, the state's efforts focused on the suburb, not the city, and Mr. de Blasio and his top aides projected a slow, steady increase that the outbreak would be readily contained.

There would be cases, they repeatedly said, but New York's hospitals were some of the best in the world, and they planned their responses had been rebuffed during "tabletop" exercises. After all, the city had been here before — Ebola, Zika, the H1N1 virus, even

Continued on Page A12

As Limits Ease, Wuhan Limpes Into New Life

By RAYMOND ZHONG and VIVIAN WANG

China on Wednesday ended its lockdown of the city where the coronavirus first emerged and a potent symbol in a pandemic that has killed tens of thousands of people, shaking the global economy and thrown daily life into upheaval across the planet.

But the city that has responded after more than 10 weeks is a profound departure from one whose recovery will be watched worldwide for lessons on how populations move past pain and calamity of such staggering magnitude.

In Wuhan, sickness and death have snatched hundreds of thousands of lives, inspiring them with trauma that could linger for decades. And even those who have recovered face a wrenching road ahead, with sluggishness likely to persist. Neighborhoods will have to learn to regulate people's comings and goings, without return to normalcy in sight.

The Chinese authorities assailed of Wuhan as a "cancerous hub" of illegal people trafficking, and a frantic attempt to limit the outbreak's spread. At the time, many outside law it as an extreme step, one that had to be taken by an authoritarian system like

Continued on Page A7

NATIONAL A18-19
Cardinal's Opaque Acquittal
Catholic Cardinal Sean P. O'Malley was exonerated in a secretive in overturning a jury's conviction on sexual abuse charges. PAGE AD

Rhyming in Two Tongues
Hip-hop artists mixing French and English are causing a stir in the Franco- phone province of Quebec. PAGE A18

Obituaries B12-14
Artist Who Spoke in Silhouettes
Iselle Weber, one of the few women of Pop art, criticized corporate amorality in her works. She was 88. B12/B14

NATIONAL A20-23
Trump Finds a Friend: Florida
Gov. Ron DeSantis' conservative Republican support extends from his home state and includes extensive from immigrants and Jewish voters. PAGE A20

Civil Rights Icon Backs Biden
Representative John Lewis's endorsement shows Joseph R. Biden Jr.'s firm support from black voters. PAGE A22

OBITUARIES B12-14
Artist Who Spoke in Silhouettes
Iselle Weber, one of the few women of Pop art, criticized corporate amorality in her works. She was 88. B12/B14

OBITUARIES B12-14
Artist Who Spoke in Silhouettes
Iselle Weber, one of the few women of Pop art, criticized corporate amorality in her works. She was 88. B12/B14

How the Coronavirus Toll Grew
The first 5,000 deaths came in just over a month. In less than five days, the second 5,000 followed. Article and more graphics, Page A14.

DEATHS BY APRIL 6

APRIL 2

MARCH 26

MARCH 17

APRIL 1

STATISTICS FROM CERTAIN CITIES AND STATES HIGHLIGHT ENTRENCHED INEQUALITY

LATE EDITION
Today, mostly cloudy showers, high 63. Tonight, partly to mostly cloudy, low 48. Tomorrow, mostly cloudy, cooler, showers, especially morning, high 56. Weather map, Page B8.

BLACK AMERICANS BEAR THE BRUNT AS DEATHS CLIMB

Statistics From Certain Cities and States Highlight Entrenched Inequality

This article is by John Eligon, Adrienne D. S. Burch, Diane Sawyer and Richard A. Oppel Jr.

The coronavirus is infecting and killing black people in the United States at disproportionately high rates, according to data released by the New York Times across cities, highlighting what public health researchers say are entrenched racial inequalities leading to stem potential devastation in black communities.

The worrying trend is playing out in nearly every major city where people born in different backgrounds and working far different jobs.

The latest numbers, from Charlotte, N.C., who could not shake a dry cough that arrived in January and stayed through April, LaShaune Lewis, a medical assistant who rides the bus to work each day, turned to tea and cough syrup. "I had to tell my mom, 'Grandma taught you' — to treat a headache and a cough. And in December, Lewis, who drives a van for city bus drivers, was coughing so much that he got tested.

"This is a call-to-action moment for all of us," said Lori Lightfoot, the mayor of Chicago, who announced statistics of the outbreak that black Americans account for more than half of those who have tested positive and died. "It's heartbreaking to see fatalities in Chicago, even though they make up a little less than a third of the population.

"Those numbers take your breath away, they really do," said Mayor Lori Lightfoot of Chicago cited "shocking" figures.

Continued on Page A17

President Ousts Official Policing Relief Spending

By CHARLIE SAVAGE and PETER BAKER

WASHINGTON — President Trump has chosen to oust the leader of a new watchdog panel charged with overseeing how the government spends billions of taxpayer dollars in coronavirus pandemic relief, the latest step in an abruptly unfolding White House effort to strip away semi-independent inspectors general across the government.

The panel, which has been the acting inspector general for the Defense Department since October, was to be disbanded. It was set to become the chairman of a new Pandemic Response Accountability Committee, which would oversee how the \$2.2 trillion coronavirus relief package was spent.

But Mr. Trump replaced Mr. Fineblum, a Pennsylvania Democrat who had been investigating him from serving on the new oversight panel.

Mr. Trump came at a time when the president had been reassessing authority over the executive branch, adding to his control with independent voices within the government that he considers disloyal. In recent days, he fired or replaced several officials he viewed the whistleblower complaint that led to his impeachment as well as his attorney general, and appointed a new one.

He also has moved to restructure the new relief law and attacked another inspector general who criticized virus testing short-sighted.

Mr. Trump even cheered the firing of Mr. Fineblum, whom he called "a career for sending a letter to the low Navy officers pleading for help for his virus-stricken crew,

Continued on Page A10

ARTS C1-8
Finding Unity in Distance
Zoya Charkasoff's virtual exhibition looks back to Jewish shtetl life as an allegory of today's crisis. PAGE C1

Learning From Plagues Past
Zoya Charkasoff's virtual exhibition looks back to Jewish shtetl life as an allegory of today's crisis. PAGE C2

EDITORIAL OP-ED A24-25
Susan E. Rice PAGE A25

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Front page figure 0: The New York Times, 8/4/2020, Front page,
<https://static01.nyt.com/images/2020/04/08/nytfrontpage/scan.pdf>

100,000 deaths



*Front page figure 1: The New York Times, 24/5/2020, Front page,
<https://static01.nyt.com/images/2020/05/24/nytfrontpage/scan.pdf>*

200,000 deaths

**"All the News
That's Fit to Print"**

The New York Times

VOL. CLXX No. 58,823 © 2020 The New York Times Company NEW YORK, MONDAY, SEPTEMBER 21, 2020 \$3.00

A NATION'S ANGUISH AS DEATHS NEAR 200,000

Shane Reilly, an artist in Austin, Texas, planted a plastic flag in the yard to honor each person in the state who has died as a result of the coronavirus pandemic.

LATE EDITION
Today, abundant sunshine, cool, high 65. Tonight, mostly clear, cool, low 45. Tomorrow, mostly clear, a bit warmer, seasonable, high 72. Weather map appears on Page B6.

ADVERSARIES GIRD AS BATTLE BREWS OVER COURT SEAT

TRUMP WANTS FAST VOTE

Biden Says Winner of the Election Should Pick the New Justice

By PETER BAKER and MAGGIE HABERMAN

WASHINGTON President Trump and his adversaries insisted on an epic campaign-season showdown over the future of the Supreme Court even as the names proposed to honor the late Justice Ruth Bader Ginsburg in an outdoor viewing to be held according to pandemic-era rules.

The president's determination to confirm a replacement for Justice Ginsburg before the Nov. 3 election has put him on a collision course with one another at a time when Congress already has major issues on its agenda, including a massive bill to keep the government open past next week and a stalled coronavirus relief package. Millions of Americans left unemployed by the pandemic has killed nearly 200,000 people.

Undaunted by the prospect of such a volatile fall, Mr. Trump prepared to announce a nominee as early as Monday in hopes of pressuring the Senate to ratify his choice before voters decide whether to give him a second term and a new justice. He had been in touch with Senator Mitch McConnell, the majority leader. Even as a moderate Republican senator reaffirmed her opposition to such an accelerated timetable on Sunday, others like Senator Lamar Alexander of Tennessee and Senator Rand Paul appeared increasingly likely that Mr. Trump may get the votes to proceed, although there were a few last-minute developments.

The political maneuvering took place even as the nation was mourning the loss of Ginsburg, a champion of women's rights as a hero to the left who died at age 87 on Friday night. Admirers continued to flock to the Supreme Court

Close to a Million Have Perished Worldwide

This article is by Simon Romero, Monty Fernandez and Marc Santora.

It is a staggering toll, almost 200,000 people dead from the coronavirus in the United States, and nearly five times that — close to one million people — around the world.

And the pandemic, which sent cases spiking skyward in many countries and then trending downward after lockdowns reached a precarious point, will likely continue to do so as the United States sees the virus continue to show in the coming days? Or is a new surge on the way?

“What will happen, nobody knows,” said Dr. Amesh Adalja, an infectious disease epidemiologist at The University of Texas Health Sciences Center at Houston. “This virus is unpredictable, unpredictable, and we may be surprised again.”

In the United States, fewer new coronavirus cases have been detected week by week since late July, following harrowing outbreaks in the Northeast and then in the South and the West.

But in recent days, the nation’s daily count of new cases is again increasing, suggesting either a resurgence of the virus as universities and schools reopen and as cases spread to new areas or doors ahead of what some epidemiologists fear could be a devastating winter.

The coronavirus death toll in the United States is now roughly equal to the population of Akron, Ohio, and nearly four times the number of U.S. service members who died in battle in the Vietnam and Korean Wars combined. About 800 people are still dying daily.

Around the world, at least 73 countries are seeing surges in new cases, and others are fast mounting.

In India, new cases of 90,000 new cases a day, better defined as daily, adding a million cases since the start of this month and sending the country’s total cases soaring.

Continued on Page A9

Grim Reminders That Are Hard to Escape

This article is by Julie Baumgardner, Serge F. Kovaleski and Jacey Fortin.

Two days after his wife died of the coronavirus, increasing the enormous toll in the United States by nearly 100,000, Mr. Kovaleski, 57, grieved, went back to work.

He hoped that his job, as an assembly plant supervisor at KFC, would keep his hands busy, which might then occupy his mind, too. Maybe it would ease his longing for his wife, who had died with a hair and a bright smile. They were just shy of their seventh wedding anniversary when the coronavirus took her life.

But at work, it felt like the pandemic was the only thing people could talk about, the only topic of conversation at his sprawling factory. And on the news, every story seemed to be about the coronavirus.

“Everything’s corona, everything’s corona, that’s all you hear on the news,” Mr. Kovaleski said. “You don’t want that reminder all the time of why she’s gone.”

The coronavirus crisis in the United States has taken more than 200,000 lives, the young and the old, those living in dense cities and tiny towns, people who spent their days working in meatpacking plants, teachers, farm laborers and retirees.

The loved ones left behind are trapped in an extraordinary series of torments. They have seen their spouses, parents and siblings fall ill and die. They have witnessed the deaths from a distance, through telephone connections or socially distanced funerals. Neighbors are left to grieve, in a country still firmly gripped by the coronavirus pandemic, where everywhere their turn is a reminder of their pain.

This aftermath has been uniquely complicated, and fraught. In densely populated areas, people across the United States who have lost family members to the coronavirus are left with a sense of unsettled frustration, anger and isolation, all of it intensified by the feeling that the pandemic is

Continued on Page A15

Nearly 900 poster-size photos of coronavirus victims filled a memorial on Belle Isle in Detroit.

Spain has honored its victims with an eternal flame rising from a black steel brazier in Madrid.

Crosses and balloons were placed as tributes on Copacabana Beach in Rio de Janeiro.

INTERNATIONAL A10-13
Left Out of the Picture
A television drama on China's fight with Covid-19 drew ire because it downplayed women's contributions. PAGE A10

Food Shortage Grips Cuba
The dearth of tourists in the pandemic's wake strangled an economy already damaged by U.S. sanctions. PAGE A12

TRACKING AN OUTBREAK A4-A9
'Washout' Year for Big Hotels
Several major hotels in New York City have announced that they are closed for good, and some experts say that more shutdowns are coming. PAGE A11

Business B1-B8
Deal Keeps TikTok Ticking
An agreement to keep the China-based app operating in the U.S. gives contracts to Oracle and Walmart, and the president a chance to claim victory. PAGE B1

Trials Details Revealed
AstraZeneca acted in response to concerns about two vaccine trial participants who fell ill. PAGE B1

NATIONAL A14-A20
Little Fear in the Suburbs
Polls suggest that President Trump's statements about lower property values and crime are not resonating. PAGE A15

OBITUARIES A22-A23
Overlooked No More
A Chinese immigrant, Mabel Ping-Hua Lee stood out as a leader of a women's suffrage march in New York. PAGE A22

ARTS C1-C6
Putting Hope in Stained Glass
The monks of a German abbey have new windows by Gerhard Richter that secure the community's future. PAGE C1

'Schitt's Creek' Sweeps Emmys
The sitcom won all the major comedy awards. Below, Daniel Levy took home four for his work on the show. PAGE C1

OBITUARIES A24-A25
Jamelle Bouie
PAGE A25

SPORTS MONDAY D1-D8
A U.S. Open Powerhouse
The muscular Bryson DeChambeau shot the only under par round on Sunday to prevail at Winged Foot. PAGE D1

A Victory, Believe It or Not
Tadej Pogacar, a 21-year-old Slovene, capped a Tour de France triumph that surprised even himself. PAGE D4

EDITORIAL OP-ED A24-A25
Jamelle Bouie
PAGE A25

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Front page figure 2: The New York Times, 21/9/2020, Front page,
<https://static01.nyt.com/images/2020/09/21/nytfrontpage/scan.pdf>

300,000 deaths

'All the News That's Fit to Print'

The New York Times

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'HEALING IS COMING': U.S. VACCINATIONS BEGIN

ELECTORS AFFIRM BIDEN'S VICTORY; VOTE IS SMOOTH

'Time to Turn the Page,' Winner Says

By NICK CORASANTI and JIM BURNINGHAM

It began at 10 a.m. in New Hampshire, where electors met in a statehouse chamber festooned with holiday decorations and gave their votes to Joseph R. Biden Jr. By noon on Monday, the battleground states of Arizona, Georgia and Pennsylvania, ground zero for Donald Trump's Trumpist ratiocinative lawsuits, had backed Mr. Biden too. In New York, Bill and Hillary Clinton cast their electoral votes along with 27 other electors.

And when California cast its 55 votes for Mr. Biden around 5:30 p.m., it was clear that he had past the threshold of 270 Electoral College votes needed to win the presidency, putting the official process on a trajectory away from the legal challenges and political efforts by Mr. Trump to use legal challenges and political pressure to overturn the results.

With no Electoral College vote behind him, Mr. Biden called for unity while forcefully denouncing



the president and his allies for their assault on the nation's voting system. In an address in Washington, D.C., Monday night, Mr. Biden said: "The efforts to get the Supreme Court to undo the results represented a 'position so extreme that it was unacceptable' and called the attacks on election officials at the local level 'unconscionable.'

Mr. Biden and that "is time to turn the page" on the election. Praising officials who stood up for democracy, he added: "It was honest, it was free and it was fair. They saw it with their own eyes. And they wouldn't say anything different." [Page A18.]

For all of the turmoil that Mr. Trump had promised, the conspiracy theories, lawsuits and baseless claims of fraud, the Electoral College vote that sealed Mr. Biden's victory was a quiet, formal affair, devoid of drama. As it always is.

Those supporters of Mr. Trump had promised to mount protests outside the statehouses in battleground states that the president had won, but those things were largely smooth; there were no demonstrations that disrupted the proceedings, and in some cases, pro-Trumpers outnumbered protesters.

After Hawaii cast its 4 electoral votes for Mr. Biden, followed with 200 Electoral College votes, with no electors defecting from the slate.

The vote follows six weeks of unprecedented uncertainty as Mr. Trump to intervene in the election. Continued on Page A20

Barr to Quit Next Week

Attorney General William P. Barr lost favor after long bolstering President Trump. Page A25.



Joseph R. Biden Jr. said on Monday the election "was honest, it was free and it was fair."

Agencies Race to Assess Damage After Being Hacked by Russia

This article is by David E. Sanger, Nicole Perlroth and Eric Schmitt.

WASHINGTON — The scope of Russia's prime intelligence agencies' cyberattacks against the United States became clear on Monday when the Trump administration acknowledged that other federal agencies — the Department of Homeland Security, the Defense Department and the Treasury — had been compromised. Investigators were struggling to determine the extent to



The Department of Homeland Security was compromised.

TRACKING AN OUTBREAK A4-11

Setback for Restaurants

Everything seemed to conspire against New York City's food and drink businesses. Now, indoor dining has been taken away again. PAGE A11

NATIONAL A18-25

A Legacy of the Trump Voter

A growing and broadly held distrust of the electoral system has important implications for democracy. PAGE A12

Favoring for E.P.A. Hits a Wall Objections to her policies' effects on minorities may derail Mary D. Nichols, an expected Biden pick. PAGE A25

CNN and MSNBC, Post-Trump

Ratings have hit new highs, but executives and journalists at both cable news outlets are uneasy about what the next year will bring. PAGE B1

INTERNATIONAL A12-17

Losing Coffee and Friendship

Beginning at Turkey's coffeehouses for losing "our jokes, our laughter" as pandemic restrictions linger. PAGE A12

Report Links Spies to Navalny

An investigative group provided evidence of Moscow's role in the poisoning of Russia's opposition leader. PAGE A18

BUSINESS B1-B2

A Gift to Dementia Studies

Alzheimer's researchers are hoping to better understand the disease by studying a Canadian woman who had a rare genetic mutation, and who donated her brain to science.

Pandemic, Expected to Cut Trade, Boosts It

That has been a boon for China, the world's largest manufacturer of many of those goods. In November, China reported a record trade surplus of \$75.43 billion, propelled by an unexpected 2.1 percent surge in exports compared with

money they might have spent on groceries, movies and restaurant dining to home cooking, like exercise equipment for basements gyms, and toys to keep their children entertained.

That has been a boon for China, the world's largest manufacturer of many of those goods. In November, China reported a record trade surplus of \$75.43 billion, propelled by an unexpected 2.1 percent

surge in exports compared with

of both parties, who earlier this year predicted that the pandemic, which began in China, would be a major factor in the U.S. vote and with that country and finally bringing factories back to the United States.

"The global pandemic has proven once and for all that to be a strong nation, America must be a manufacturing nation," President Trump said in May. "We're bringing

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SCIENCE TIMES D1-D8

What to Know About Testing

Long lines, slow results and inconsistent advice have left many confused about when to go to get tested for Covid. We talked to the experts to answer your questions. PAGE B4

SPORTSTUESDAY 87-9

A \$3 Million Error Made Right

The agent Bill Duffy paid back his client Anthony Carter over 17 years after costing him at N.B.A. contract. PAGE B8

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Bret Stephens

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ARTS C1-C6

Charley Pride's Legacy

The singer put himself on the line as country music's first Black superstar. He died after performing at a largely mask-free awards ceremony. PAGE C1

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Front page figure 3: The New York Times, 15/12/2020, Front page, <https://static01.nyt.com/images/2020/12/15/nytfrontpage/scan.pdf>

400,000 deaths

"All the News That's Fit to Print"

The New York Times

Late Edition
Today, partly sunny, breezy, slightly cooler, high 58. Tonight, partly cloudy, low 38. Tomorrow, mostly cloudy, flurries, windy, high 37. Weather map appears on Page B10.

VOL. CLXX No. 58,943 NEW YORK, TUESDAY, JANUARY 19, 2021 \$3.00

Trump's Base Nurses Anger Over Election

False Claims of Fraud May Linger for Years

By SABRINA TAVERNISE

WASHINGTON — For many Americans who voted for President Trump, the events of the past two weeks — the five deaths, including of a Capitol Police officer, the arrests that have followed — have been a reminder that Trump and right-wing extremists from tech platforms — have not been bashful about attacking Americans.

On the center interviews in recent days show that their anger and paranoia have only deepened, suggesting that as Mr. Trump leaves the White House, an embrace of conspiracy theories and rage over the 2020 election will live on, just as do the extremist groups that among many Americans.

"OK, I'll just sit back and say, 'OK, I'll just go back to watching football,'" said Daniel Schreier, 43, a food truck driver in Stamford, Conn., who was at a rally in Washington this month, but said he did not go inside the Capitol. "I'm not going to name those who did. He said he did not condone those who were violent but believed that the news media had been covering the election, obscuring what he saw as the real story of the day: the people's First Amendment election.

"If we tolerate a fraudulent election, I believe we cease to have a republic," he said. "We turn into a totalitarian state."

Asked what would happen after Mr. Biden takes office, Mr. Schreier said, "That's what every person has to search."

He continued: "This just isn't like a candidate who didn't want, but he won fair and square."

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Tarnished Gold In Capitol Riot: An Athlete's Fall

By KAREN CROUSE

The swimming coach did not know what to expect when he dialed Klein Keller's phone number. An explanation of why Mr. Keller, 19, had been in the mob that stormed the U.S. Capitol a week earlier. A definition of his actions, which had left him facing criminal charges? Denial? Rationalizing? Rage?

The last thing he expected was for the man he had once considered a mentor he had known as a merry prankster, to dissolve into tears.

He turned to his coach, Mark Schubert, who once trained Mr. Keller at the University of Southern California, said in recollecting the conversation. Mr. Keller repeating, "You do so much for me and I let you down." He kept saying it until, over and over again, it meant for any of us that happened."

Of the dozens of people now facing criminal penalties, 200 or more sentences for invading the Capitol, only a handful have drawn more attention than Mr. Keller, a tall, thin Oregonian who had two gold medals as a youth swimmer of Michael Phelps.

Yet on Jan. 6, he was spotted in video of the crowd that stormed the Capitol, and was arrested. Friends and former teammates of Mr. Keller, who had been with him in the mob, told the F.B.I. Strangers demanded that he go to prison. Prominent voices called for him to be stripped of his medals.

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2,048 deaths were reported on Jan. 4 alone.

The lives of the people who died that day reflect an extraordinary national loss.

This article is by Amy Harmon, Andrea D. S. Bach, Thomas Fuller and Menno Fenzl.

It was 3 a.m. when Latralie Williams was startled from her sleep in her family's Gainesville, Fla., home, with a phone call. The voice on the other end, the caller said, was her husband, his voice coming in slow bursts. Her husband of 23 years had very little time left. "Dear God, she began to peep. "Dear God, give me strength."

Ten minutes later, she received a second call. It was too late.

Her husband, Stacy Williams, a beloved youth football coach and father of five, had died from complications of Covid-19. All that was left was for her to replay the cellphone video that had made from his hospital bed.

Looking into the camera with tubes in his

nose, Mr. Williams tells his wife and children not to stress, that he is a fighter guided by his faith in God. He asks his children to stay positive and strengthen their minds. "We're hanging on," he says, adding, "I love y'all."

On one single day in a monthlong period during which the United States lost more people to Covid-19 than in any other during the pandemic,

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In just five weeks, 100,000 more people have died from Covid-19.

DATE	DEC. 4, 2020	DEATHS	2,832
DATE	DEC. 5, 2020	DEATHS	2,196
DATE	DEC. 6, 2020	DEATHS	1,111
DATE	DEC. 7, 2020	DEATHS	1,533
DATE	DEC. 8, 2020	DEATHS	2,821
DATE	DEC. 9, 2020	DEATHS	3,157
DATE	DEC. 10, 2020	DEATHS	2,937
DATE	DEC. 11, 2020	DEATHS	2,951
DATE	DEC. 12, 2020	DEATHS	2,256
DATE	DEC. 13, 2020	DEATHS	1,357
DATE	DEC. 14, 2020	DEATHS	1,676
DATE	DEC. 15, 2020	DEATHS	3,025
DATE	DEC. 16, 2020	DEATHS	3,611
DATE	DEC. 17, 2020	DEATHS	3,296
DATE	DEC. 18, 2020	DEATHS	2,870
DATE	DEC. 19, 2020	DEATHS	2,561
DATE	DEC. 20, 2020	DEATHS	1,429
DATE	DEC. 21, 2020	DEATHS	1,963
DATE	DEC. 22, 2020	DEATHS	3,235
DATE	DEC. 23, 2020	DEATHS	3,411
DATE	DEC. 24, 2020	DEATHS	2,824
DATE	DEC. 25, 2020	DEATHS	1,125
DATE	DEC. 26, 2020	DEATHS	1,646
DATE	DEC. 27, 2020	DEATHS	1,230
DATE	DEC. 28, 2020	DEATHS	1,895
DATE	DEC. 29, 2020	DEATHS	3,628
DATE	DEC. 30, 2020	DEATHS	3,808
DATE	DEC. 31, 2020	DEATHS	3,462
DATE	JAN. 1, 2021	DEATHS	1,917
DATE	JAN. 2, 2021	DEATHS	2,373
DATE	JAN. 3, 2021	DEATHS	1,353
DATE	JAN. 4, 2021	DEATHS	2,048
DATE	JAN. 5, 2021	DEATHS	3,689
DATE	JAN. 6, 2021	DEATHS	3,964
DATE	JAN. 7, 2021	DEATHS	4,112
DATE	JAN. 8, 2021	DEATHS	3,895
DATE	JAN. 9, 2021	DEATHS	3,261
DATE	JAN. 10, 2021	DEATHS	1,777

Search Widens For Extremists In the Military

Pentagon Scours Ranks With New Urgency

This article is by Eric Schmitt, Jennifer Steinbauer and Helene Cooper.

WASHINGTON — The Pentagon is intensifying efforts to identify and combat white supremacy and other far-right extremism in its ranks, as the military services seek to determine how many military personnel and veterans joined the violent assault on the Capitol.

In the days since a pro-Trump mob breached the Capitol on Jan. 6, the military has moved to toward a singular economic goal: Get the job market back to where it was before the pandemic hit.

The military is also trying to keep that existed 11 months ago — with 3.5 percent unemployment, stable or rising work participation rates, steady gains in wages and no inflation.

The F.B.I. inquiry into the Capitol siege, still in its very early stages, has identified at least six suspects with military links out of the more than 1,000 people who have been taken into custody or the larger number still under investigation. They include a retired Army colonel from Texas, an Army officer from North Carolina and an Army reservist from New Jersey. Another, with a military service number, was shot and killed in the assault.

The military's examination of its ranks is part of a broader strategy by the Pentagon, which has a history of playing down the rise of white nationalism and right-wing activism even as other countries are finding a deep strain embedded in their armed forces.

"These people are not representative of our country's military," Gen. Mark A. Milley, the chairman of the Joint Chiefs of Staff, said in an interview. He said most active-duty troops and veterans are honorable, law-abiding, honorable people who protect and defend the U.S. Constitution."

For more than a week now, Gen. Milley has made clear that his administration will focus on workers and has chosen top officials with a job market focus. He

Continued on Page A16

BIDEN FOCUSING ECONOMIC POLICY ON JOB GROWTH

FED PROMISES PATIENCE

Cutting Unemployment Rate a Priority Over Inflation Fears

By JEANNA SMIALEK

As President-elect Joseph R. Biden Jr. prepares to take office this week, his administration and the Federal Reserve are moving toward a singular economic goal: Get the job market back to where it was before the pandemic hit.

The Fed is also trying to keep that existed 11 months ago — with 3.5 percent unemployment, stable or rising work participation rates, steady gains in wages and no inflation.

Then the pandemic and the effort to contain it prompted joblessness to skyrocket to levels not seen since the Great Depression. The recovery has been slow and uneven, with additional waves of contagion, keeping millions of workers sidelined and causing job losses to resume.

Policymakers across government agree that the path to that long-term goal should be gradual, a notable shift from the last economic expansion and one that could help shape the economic recovery.

Mr. Biden has made clear that his administration will focus on workers and has chosen top officials with a job market focus. He

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Remembering a Leader

National Guard members patrolling around the Martin Luther King Jr. Memorial in Washington before Inauguration Day.

Fatal Oxygen Failure in Hospital Shines Light on Egypt's Missteps

By MONA EL-NAGgar and YOUSUR AL-HLOU

EL HUSSEINIYEYNA, Egypt — A cry pierced the night from the balcony of an Egyptian hospital. A nurse was screaming that the patient in the room with Covid-19 was not breathing.

On one single day in a monthlong period during which the United States lost more people to Covid-19 than in any other during the pandemic,

as his colleagues tried to resuscitate a man using a manual ventilator.

At least four patients died. Mr. Nafei, 62, died on Jan. 10, less than a week after this image of the chaos at El Husseiniyea Central Hospital, about three hours west of the capital of Cairo, went viral on social media.

Outrage grew, the government denied that the hospital had run out of oxygen.

Security officers interrogated Mr. Nafei, and officials blamed him for violating rules barring visitors.

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Lamar Jackson, above, and Patrick Mahomes didn't return to games — a good sign, Ken Belson writes.

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Yellen Wants U.S. to 'Act Big'

Janet L. Yellen, the nominee for Treasury secretary, is more concerned about robust measures to keep the economy than about the mounting debt.

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INTERNATIONAL A7-9

Discord Lands Down Under

The run-up to Australian Open tennis has become testy now that players have been ordered to quarantine.

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Off to a slow start, the country has just six million doses on hand for its 233 million people.

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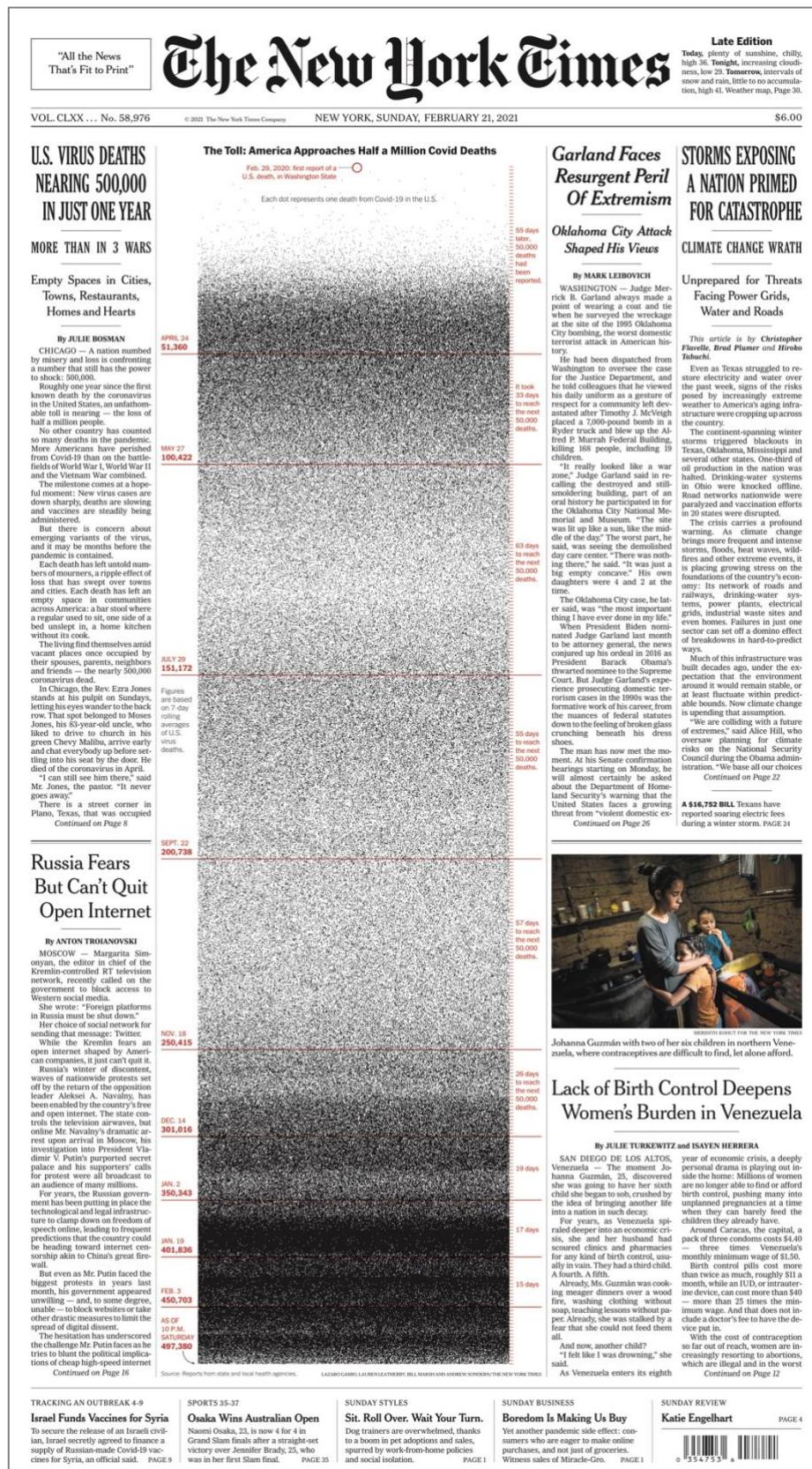
ARTICLES

Tracking an Outbreak

Brazil Begins Vaccinations

<p

500,000 deaths



Front page figure 5: The New York Times, 21/2/2021, Front page, <https://static01.nyt.com/images/2021/02/21/nytfrontpage/scan.pdf>

600,000 deaths

"All the News
That's Fit to Print"

The New York Times

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NEW YORK, WEDNESDAY, JUNE 16, 2021

\$3.00

'MOMENTOUS': NEW YORK AND CALIFORNIA OPEN

Total Covid-19 deaths by county as of 1 p.m. Tuesday

County	Deaths
King County	1,037
Los Angeles County	24,433
Maricopa County	10,167
Harris County	8,553
Cook County	10,982
Wayne County	5,114
New York City (five boroughs)	33,348
Miami-Dade County	6,472

A Once Unfathomable Toll

According to a New York Times database of Covid-19 fatalities, the country is nearing a death toll of 600,000. The first reported coronavirus death was on Feb. 29, 2020. The rate of new deaths has been declining since January, though it may have peaked earlier in February, and scientists believe others died from the virus before then, when the cause was unknown.

The pace of every 100,000 deaths nationwide

Date	Days to reach	Deaths
FEB. 29, 2020, FIRST REPORT OF A U.S. DEATH	89 days	100,000
MAY 27, 2020	118 days	200,000
SEPT. 22, 2020	83 days	300,000
DEC. 14, 2020	36 days	400,000
JAN. 19, 2021	34 days	500,000
FEB. 22, 2021	At least	600,000

Source: Reports from state and local health agencies

In Emails, Trump Pressed Justice Dept. on False Election Claims

By KATIE BENNER

WASHINGTON — An hour before President Donald J. Trump announced his intention to nominate William P. Barr would step down as attorney general, the president began pressuring Mr. Barr's eventual replacement, Merrick B. Garland, the Justice Department took up his false claims of election fraud.

Mr. Trump sent an email via his

assistant to Jeffrey A. Rosen, the incoming acting attorney general, that contained documents purporting to show evidence of election fraud. In one email, Mr. Trump said the same claims that a federal judge had thrown out a week earlier in a lawsuit filed by one of Mr. Trump's political allies.

Another email from Mr. Trump to Mr. Rosen followed two weeks later, again via the president's as-

Flouting Norms in Effort to Subvert the Vote

sistant, that included a draft of a letter that Mr. Trump had written to the Justice Department, asking for the feds' later trial with increasing urgency to try to track down Mr. Rosen at the Justice Department, saying he had used the pandemic to weaken

election security and pave the election for wide-scale voter fraud.

The draft school-day claim is a lawsuit in Texas by the Trump-appointed state attorney general that the justices had thrown out, and a draft of another letter from Mr. Trump to Mr. Rosen, which he had written if determine failed.

Now, as President Biden prepares to meet with President-elect Joe Biden in Geneva on Wednesday, for the first time cyberspies are being elevated to the top of the agenda.

The race between Russia and the United States, the two most skilled adversaries in the cyberarena, have each turned to a growing arsenal of techniques in what has become a daily, low-level conflict. But at summit meetings, the two sides will usually be treated as a sideshow to the main superpower competition.

No more. The rising tempo and

Continued on Page A17

Biden's Priority in Facing Putin Is Digital, Not Nuclear, Threat

Cuomo's Intimates Raised Funds For Ex-Aide Convicted of Graft

By JULIANA HORNSTHALL
and J. DAVID GOODMAN

After one of Gov. Andrew M. Cuomo's most trusted aides and closest friends, Joseph Percoco, was convicted of soliciting and accepting illegal campaign contributions and bribes from executives with business before the state, the governor quickly dismissed him.

Then he said he had "confidence," for corruption, he called, Mr. Percoco's behavior the opposite of everything he hoped his administration would stand for.

"The rule of law is paramount," Mr. Cuomo said last year, a few months before Mr. Percoco was sentenced to nearly three years in prison for paying the price for violating the public trust.

Privately, however, members of the governor's inner circle — in-

JOE RAEDLE/GETTY IMAGES FOR THE NEW YORK TIMES

cluding one of his sisters — have for years been quietly raising money for Mr. Percoco, according to interviews and newly obtained emails.

As recently as last year, the group was helping to fund Mr. Percoco's appeal of his conviction, af-

Continued on Page A18

VLADIMIR V. PUTIN/WIREIMAGE

Russia uses cyberspies. Vladimir V. Putin won't admit

Continued on Page A17

NATIONAL B1-7

Difficult to Give It All Away
The worth of MacKenzie Scott, who announced \$2.74 billion in new grants, has increased to roughly \$60 billion, according to Forbes.

PAGE B1

INTERNATIONAL A4-10

Rocket Attack in Gaza

Israel hit Gaza with airstrikes after a provocative Jewish gathering in Palestinian areas of Jerusalem.

PAGE A10

Asia Lags on Inoculations

Massive campaigns in Japan, South Korea and Australia are belatedly starting to pick up steam.

The focus shifts to China's rise. PAGE BI

Trade Spat With E.U. Ends

An agreement, coming as President

Trump's European leaders settled a 17-year dispute over aircraft subsidies.

The focus shifts to China's rise. PAGE BI

Obituaries A19, 22

Judge With an Activist streak

Over 53 years, Jack B. Weinstein displayed bold jurisprudence and an outsider perspective. He was 89. PAGE A19

OBITUARIES A19, 22

Charger for Trump Executive?

An investigation into Alain Weisselberg, the Trump Organization's finance chief, appears to be nearing an end. PAGE A18

Obituaries A19, 22

Judge With an Activist streak

Over 53 years, Jack B. Weinstein displayed bold jurisprudence and an outsider perspective. He was 89. PAGE A19

OBITUARIES A19, 22

Late Edition

Todays' weather forecast: less rain than recent days, highs 78. Tonight, mostly clear, light winds, low 78. Tomorrow, mostly sunny, dry, high 77. Weather map, page low 78.

Nation Approaching 600,000 Deaths, Despite Progress

By DAN LEVIN and JULIE BOSSMAN

It is a number that once seemed unimaginable. In the next few days, the United States will surpass 600,000 deaths from Covid-19, the highest known death toll in the world. The millions of new cases and deaths in this country have shared a fallen, vacillating trajectory. Some states have opened widely, and many people have shed their masks and resumed pre-pandemic routines.

For others, the virus remains agonizingly present for those who knew the hundreds across the country still dying of it each day. In a small town in Wisconsin, Toni Gallo, 67, of Valparaiso, Ind., who had been sick with the virus for more than a month. "The world has lost a slowing ship," she said. Last week, Officer Ryan Barnet, 43, of the Sausalito, Calif. police, died from the virus, the department announced.

Though the sheer number of deaths in the United States is higher than anywhere else, the country is not alone. It is, per capita, than in many European and Latin American countries, including India. It is 10 times the toll that former President Donald J. Trump once predicted. The death toll is also higher than Stephen Morse, a professor of epidemiology at the Columbia University Medical Center. "A lot of that tragedy is predictable, and it's still happening."

In the early days of the pandemic, federal officials had shied away from pronouncing a White House briefing that even with strict stay-at-home orders, the United States could kill as many as 240,000 Americans. "As sobering a number as it is, we should be prepared for it," Dr. Deborah S. Bassin, the nation's top infectious disease expert, said at the time.

The first known death from the coronavirus in the United States occurred in February 2020. By the end of May, that 15,100 deaths had been confirmed, said an analysis by the Centers for Disease Control and Prevention. That figure rose to 100,000 deaths in June.

Over the next four months, the number of deaths rose another 100,000. Deaths from the pandemic in California, while the second highest in the country, were the third highest in the nation.

Yet both governors took the opportunity to look ahead.

In a 4-minute speech, Mr. Cuomo said the state was poised to "cross the horizon, a grim reminder of the virus's painful toll even as Americans begin to enjoy a summer of travel, work and social life." Both Democratic and Republican governors who are facing political difficulties, made their announcements at events they believed were the likes of their news conferences.

For all the celebration, the nation was also poised to face the coronavirus, a grim reminder of the virus's painful toll even as Americans begin to enjoy a summer of travel, work and social life. More than 100,000 new cases were reported in California, while the second highest in the country.

Yet both governors took the opportunity to look ahead.

In a 4-minute speech, Mr. Cuomo said the state was poised to "cross the horizon, a grim reminder of the virus's painful toll even as Americans begin to enjoy a summer of travel, work and social life." Both Democratic and Republican governors who are facing political difficulties, made their announcements at events they believed were the likes of their news conferences.

Victor J. Blue for The New York Times

Black voters make up more than a quarter of the electorate.

Policing Is a Fundamental Issue

By JEFFREY C. MAYS

With concerns over voting rights, voter suppression and the possibility of an impeachment proceeding, highlighted many of his past actions, including his support of pro-political supporters and announced a display of fireworks statewide to mark Juneteenth.

Mr. Newsom, who has been a vocal champion, has been pushing a constitutional proposal that, if passed, would grant voting rights improvements as the panel

Continued on Page A15

How to Grill Any Vegetable

Two methods are all you need to cook summer's bounty like broccoli, asparagus, cauliflower or tomatoes.

PAGE DI

How to Slow Down

Martin Yan, whose PBS show taught many Americans how to cook Chinese food, is as energetic as ever.

PAGE DI

OPINION A20-21

Thomas L. Friedman

PAGE DI

FOOD A18

Not Slowing Down

Martin Yan, whose PBS show taught many Americans how to cook Chinese food, is as energetic as ever.

PAGE DI

Sports Wednesday B6-12

Updating Baseball's Statistics

Baseball Reference has added Negro leagues stats to its site, letting fans put the game's numbers in context.

PAGE B12

A New Race for New York

The Brooklyn Marathons, set April 24 for a course totally in the borough, starts at 8:30 a.m. for 18,000 to 20,000 runners.

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OBITUARIES A20-21

Thomas L. Friedman

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OBITUARIES A

*Front page figure 6: The New York Times, 16/6/2021, Front page,
<https://static01.nyt.com/images/2021/06/16/nytfrontpage/scan.pdf>*

700,000 deaths

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NEW YORK, SATURDAY, OCTOBER 2, 2021

\$3.00

Late Edition
Today's front page
Tomorrow, high 75. Tonight, clear to
partly cloudy, low 62. Tomorrow,
partly sunny, becoming cloudy,
high 78. Weather map is on Page C8.

Where Recent Covid Deaths Took Place

Covid deaths surpassed 700,000 on Friday. This map shows deaths since June 16, the day the United States reached 600,000 deaths, according to a New York Times database.

Source: New York Times database of reports from state and local health agencies. Data is as of Sept. 29.

LAWRENCE LEATHERBY AND BILAL HUSSAIN/THE NEW YORK TIMES

As Delta Variant Plows Through U.S., Death Toll Tops 700,000

By JULIE BOSSMAN
and LAUREN LEATHERBY

The United States surpassed 700,000 deaths from the coronavirus on Friday, a milestone that few expected to reach so quickly — or so long ago — when vaccines became widely available to the American public. An overwhelming majority of Americans have been vaccinated in the past month, a period in which the country has offered broad access to shots, while the rest of the world has had one of the highest recent death rates of any country with an ample supply of vaccines.

The new and alarming surge of deaths this summer means that the coronavirus pandemic has become the leading cause of death in American history, overtaking the toll from the influenza pandemic of 1918 and 1919, which killed about 675,000 people.

"The Delta wave just rips through the unvaccinated," said Howard A. Palley, a pulmonary hospitalist at the University of Michigan. The deaths that have followed the wide availability of vaccines, he added, "are just heartbreaking."

The recent virus deaths are distinct from those in previous surges, reported by The New York Times. Deaths in the last three and a half months were concentrated among the unvaccinated, who have lagged in vaccinations; many of the deaths were reported in Florida, Mississippi, Louisiana and Arkansas. And those who died were younger, in Anglia, ev-

ery age group under 55 had the highest death rate of the pandemic. That month, Brandy Stripling, a bartender in Cottondale, Ala., told her boss that she felt as if she might never run over by a freight train again.

Mrs. Stripling, a 38-year-old single mother, had not yet been vaccinated, and she was concerned and now she had tested positive. Get some rest, her boss, Justin Grimaldi, reassured her. "I thought you pull

The Pace of Covid's Toll

Despite months of vaccination efforts, deaths in the United States have accelerated.

Source: New York Times database of reports from state and local health agencies; data as of 9 p.m. Oct. 1.

Recent Victims Were Mostly Unvaccinated

through and get back to work and keep on living," Mr. Grimaldi said.

Last week, he stood in a cemetery in Alabama and paid his respects to his family plot. A pastor spoke comforting words, her children clutched one another in a grand old country song, "If I Die Young,"

played in the background.

Her death came in the virus surge that gripped the country all summer, as the Delta variant hurtled through the central and parts of the Midwest. Close to 100,000 people across the United States have died.

On average, there are 100 new deaths per day, nearly double what was available to American adults.

The United States government has been slow to track the vaccine.

Continued on Page A15

ALL U.S. adults eligible for vaccine

THE NEW YORK TIMES

New York Fire Officials Acted After Racism Spread Last Year

Merck Says Antiviral Pill Is First To Effectively Cut Covid Danger

Drug Maker Will Seek FDA Authorization

By STEWARD HERNDON and ALI WATKINS When his fellow cadets at the fire academy in New York City started a racist nickname in 2018, he said, "I chose not to escalate the issue." Black firefighters had warned him that New York City's firehouse culture was becoming more people than the antibody treatments that are being widely used in the United States for high-risk patients.

But after the murder of George Floyd, more than a year ago, touched off protests against racism and violence in policing, the men who had been trained to fight racism won out. Last year, Mr. Charles and Mr. Charles shared racist messages and memes on their

Nine Suspensions, but a Long Way to Go'

photos mocking Mr. Floyd during moments. They glared about how the police could "legally shoot black children." And lieutenants discussed turning fire hoses on protesters, prompting one firefighter to wonder whether "wild animals like water."

After several Black firefighters saw the messages and complained, the department quickly suspended nine firefighters without pay for periods ranging from a few days to six months. One of the

Continued on Page A15

INTERNATIONAL A-8
Evoking the Cars
A century after the fall of the Romanovs, a collection of Europe's noble families gathered to celebrate a Russian royal wedding.

PAGE A7

ANIMALIA A-17
Trouble on Fraternity Row
At big universities where the groups are a dominant feature of campus, sexual assault accusations have soured many students on Greek life.

PAGE A9

Vaccine Mandate for Students
Children in California's public and private schools will be required as soon as next fall to be inoculated against the coronavirus.

PAGE A14

Admiral's War on Covid
Portugal's vaccine program, once in shambles, became a success story with the help of a former submarine squadron commander.

PAGE A14

Devoted to Helping Migrants
The Rev. Daniel Alliet of Brussels has made it his life's mission to fight for the undocumented, to the chagrin of some other clergy members.

PAGE A16

Sparing Patients From a Fight
A new Biden White House rule on surprise billing will guide arbitrators in how to settle price disputes between providers and insurers.

PAGE A17

Hollywood and Oscars on View
The new Academy Museum of Motion Pictures focuses on good intentions, our critics Manohla Dargis writes.

PAGE CI

BUSINESS B-18

Eying Greenland's Riches

The island has rare elements needed for green energy, but residents are wary of efforts to mine them.

PAGE BI

American Auto Sales Offer

Several manufacturers reported recent declines amid problems in the global supply chain.

PAGE BI

Healthcare

<div

*Front page figure 7: The New York Times, 2/10/2021, Front page,
<https://static01.nyt.com/images/2021/10/02/nytfrontpage/scan.pdf>*

800,000 deaths

'All the News That's Fit to Print'

The New York Times

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In Kentucky, Surveying the Aftermath
Salvaging remains from a home destroyed in Dawson Springs, a town where scores of residents were still missing Sunday. Page A10.

Haiti's Leader Had a List His Assassins Wanted

By MARIA ABU-HABIB
PORT-AU-PRINCE — President Jovenel Moïse of Haiti was assassinated in July, he had been working on a list of powerful politicians and business leaders who he believed were drug traffickers, with the intention of handing over the dossier to the American government, according to a former Haitian official. He had advised officials and tasked officals with drafting the document.

That document had ordered the officials to spare no one, not even the power brokers who had helped prop him into office, they said — one of whom was a suspected drug trafficker who had been in her first interview after the assassination, adding that she did not know what the gunmen had taken.

“That’s it,” they finally decided to one another before fleeing. “The New York Times” asked her if she could explain a motive for the assassination, adding that she did not know what the gunmen had taken.

Continued on Page A6

Implicating Politicians and Businessmen in the Drug Trade

When gunmen burst into Mr. Moïse’s residence and killed him in his bedroom, his wife, Martine Moïse, who was pregnant at the time and lay bleeding on the floor, pretending to be dead — described how they stayed to search the house, carefully digging through his files.

“That’s it,” they finally decided to one another before fleeing. “The New York Times” asked her if she could explain a motive for the assassination, adding that she did not know what the gunmen had taken.

Continued on Page A6

Amazon Depot At Winter Peak As Storms Hit

By KAREN WEISE and ERIC BERGER
Nearly every day as Christmas nears, Amazon’s share of online sales typically rises, as customers turn to the e-commerce giant to purchase last-minute gifts. What happened this year is that Amazon hires hundreds of thousands of additional workers, mostly temps, to handle the spike in demand, and runs its operations at full tilt.

One of them, Alonso Harris, 27, had been promoted into Amazon’s delivery depot in Edgewaterville, Ill., after 8 p.m. on Friday after a full day of delivering packages north of St. Louis. He had been glued to his work phone. Some yelled that this was not a drill. More, he heard, were shouting on Amazon’s site and heard a loud roar.

“It felt like the floor was coming off the ground,” he said. “I felt the wind blowing and saw debris flying everywhere, and people started screaming and shouting and lights were out.”

One of the tornadoes that roared through Kentucky, Arkansas and Tennessee on Saturday morning had plowed straight into Amazon’s delivery station in Edgewaterville. The toll was grim: Six people were killed, and 10 others were injured, according to the Illinois governor, J.B. Pritzker.

On Sunday, the authorities said there were no additional reports of missing people but that search efforts were continuing. It was not clear how many people had been at Amazon’s site and what safety measures could have been taken.

Continued on Page A11

Fox Anchor Wallace Decamps as Right-Wing Hosts Set Agenda

By MICHAEL M. GRYNAU
The star Fox News anchor, Chris Wallace, was leaving on Sunday night, was leaving to strip the Rupert Murdoch-owned network of its most decorated anchors, the middle journalists who have been the network’s lifeline since it was founded. Tucker Carlson has increasingly set the channel’s agenda. The network has pulled far ahead of CNN and MSNBC for ratings with an expanded slate of right-wing commentary that few sources believe will defend former President Donald J. Trump. But some members of its network have been buying into the preposterous notion that has given weight to vaccine skeptics or amplified conspiracy theories about the president.

Mr. Wallace, 74, had expressed concern to Fox News management about a recent documentary from Mr. Carlson, “Patrick Parge,” which included the false claim that the rick was a “false flag” operation created to demonize the political right. The author of the book, Michael Parge, was confirmed on Sunday by two people who requested anonymity to share private discussions.

Mr. Wallace’s contract as host of “Sunday Night” was up at the end of December, and he had been particularly popular with his thinking pals, especially those who wanted to expand his portfolio beyond politics to include business, sports and entertainment. He will now be replaced by two people whose names have not yet been announced, though one is expected to debut next year on CNN+, a new digital streaming platform.

Fox News often pointed to Mr. Wallace as the anchor who kept the network’s ratings with an expanded slate of right-wing commentary that few sources believe will defend former President Donald J. Trump. But some members of its network have been buying into the preposterous notion that has given weight to vaccine skeptics or amplified conspiracy theories about the president.

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NATIONAL A8-17
Expressing Support for Biden
Democrats with White House aspirations all say they’ll back the president for another term. But many seem to be keeping their options open. PAGE A12

Pushing for Social Justice
Becky Pringle, as head of the nation’s largest teachers’ union, is leaning into the reckoning in public schools. PAGE A8

ARTS C1-6
A Regal Performer
James Glimmer’s ballet days are over. Now the Alvin Ailey dancer is bringing his own drama to the stage. PAGE D1

SPORTS D1-6
With a Pass, a New Champion
Max Verstappen, above, overtook Lewis Hamilton on the final lap in Abu Dhabi to win the Formula 1 title. PAGE D6

Fans to Not Cheer About
Aggressive behavior from the stands in France is troubling and hard to explain, our soccer columnist writes. PAGE D1

BUSINESS B1-B8
Alibaba Fires Rape Accuser
After initially supporting an employee’s #MeToo accusation against a superior, and dismissing him, the company now blames her for damaging the company’s reputation with false claims. PAGE B1

CLIMATE Plan’s Achilles’ Heel
Unions representing other workers affected by climate legislation have struck out, but opposition from coal miners has persisted, complicating the path to enactment. PAGE B1

OPINION A18-19
Michelle Cottle
Anne Rice wrote more than 30 novels, including many about the blood-sucking creatures that renewed interest in all things vampire. She was 80. PAGE D7

INTERNATIONAL A4-7
New Caledonia Chooses France
Despite 85 percent of voters rejecting a bid for independence, the dream of sovereignty remains alive. PAGE A3

Witnessing a Migrant Tragedy
Migrants who were on a separate boat described the wreckage of a fatal sinking in the English Channel. PAGE A4

OBITUARIES D7-8
Author Who Revived Vampires
Anne Rice wrote more than 30 novels, including many about the blood-sucking creatures that renewed interest in all things vampire. She was 80. PAGE D7

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Front page figure 8: The New York Times, 13/12/2021, Front page, <https://static01.nyt.com/images/2021/12/13/nytfrontpage/scan.pdf>

900,000 deaths

'All the News That's Fit to Print'

The New York Times

Late Edition
Today, becoming mostly sunny, cold, high 28. Tonight, mostly clear and cold, high 25. Tomorrow, mostly sunny and remaining cold, high 31. Weather map appears on Page C8.

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AMID COVID WAVE, BUOYANT ECONOMY ADDS 467,000 JOBS

Chance for Biden to Shift the Narrative

Report for January Defies Predictions

By JEANNA SHMALEK and MICHAEL J. SHEAR
President Biden on Friday celebrated unexpectedly rapid January job gains, noting that showed historical strength of employment gains over the past year, sitting on good news at a moment when many Americans were worried about their prospects thanks to a lingering pandemic and persistent inflation.

America has recorded 6.6 million new jobs since January 2021, giving Mr. Biden the strongest record of job creation of any president since the government began collecting data in 1935. The unemployment rate has dropped precipitously from 6.7 percent at the start of the pandemic, and wages rose around 5.7 percent in the year through January.

The progress came on the heels of historic job losses at the start of the pandemic — and the recovery remains fragile. But the administration's surprisingly strong pace of the rebound offers Mr. Biden a chance to try and turn around an economic narrative that has been mired in negatives: soaring inflation and dear consumer sentiment.

On Friday, Mr. Biden tried to capitalize on the numbers and the moment.

"If you can't remember a year when more Americans wanted to work in this country, there's a reason — it never happened," Mr. Biden said during remarks from the White House.

But the administration is in a delicate position as it tries to shift focus from the challenges of the pandemic to the breakthroughs of the recovery, rather than the ongoing effects of the pandemic.

Bright inflation is eroding spending power, government support for families is being scaled back, and households report pessimistic outlooks. Inflation is expected to come in at 7.3 percent in the year through January, according to the government's consumer price data next week.

And some in the administration are worried Mr. Biden used on Friday as wins for his administration are very likely being eyed warily by voters. He has already proposed to raise interest rates from rock bottom during his March meeting as officials try to cool the economy.

Surgings wages could mean that companies will lift prices to cover their costs, which could trigger a new round of inflation and feeding a恶性循环.

Continued on Page A14

G.O.P. Calls Riot 'Legitimate Political Discourse'

Party's Leaders Censure Cheney and Kinzinger for Joining Inquiry

By JONATHAN WEISMAN and REED J. EPSTEIN
WASHINGTON — The Republican Party on Friday officially declared its leaders' decision to condemn the Capitol rioters as "legitimate political discourse," and rebuked two lawmakers in the House who had joined the party in condemning the deadly riot and the role of Donald J. Trump in spreading the election lies that fueled it.

The Republican National Committee's vote came to censure Representatives Liz Cheney of Wyoming and Adam Kinzinger of Illinois at its winter meeting in Washington. President Biden and other democratic leaders shamed the opening ceremony of the 2022 Winter Games opened on Friday with a shortened, stripped-down ceremony of colorful lights. Page D1

Power Games On First Day Of Olympics

By CHRIS HUCKLEY and STEPHEN LEE ROVERS
BEIJING — China's leader, Xi Jinping, opened an Olympic Games on Friday intended to celebrate the country's remarkable assured global status, standing defiantly with his Russian counterpart, Vladimir V. Putin, in an increasingly isolating alliance with the United States and its allies.

White House officials and other democratic leaders shamed the opening ceremony of China's human rights abuses, Mr. Xi drew his own line of support, and Mr. Putin was a strongman leader bristling against the United States' demands, appearing to stand up to a display of solidarity while Moscow's tensions with Ukraine continued to simmer.

The opening ceremony was a mix of Mr. Putin, with the opening ceremony, announced to a decapitated display of Chinese strength, and the world wanting to win over countries wary of its rising power, but growing impatient, and disengaged with its policies.

It also underscored China and Russia's determination to present a united front against the West, notably the United States in particular — exactly the result that President Richard M. Nixon and Henry A. Kissinger, were trying to avoid with their opening to China in 1972.

The joint statement after Mr. Xi and Mr. Putin met, they said, their friendship had "no limits," and China sided with Russia on one of its most controversial issues: the end to NATO expansion to the east and closer to Russia's borders.

The two leaders called for greater American cooperation to deploy intermediate range missiles in Europe and Asia and demanded that the United States not interfere in their internal affairs by fomenting "color revolutions," the public uprisings in former Soviet republics, Georgia and Ukraine calling for greater freedom.

Continued on Page A6

Where the Most Recent Covid-19 Deaths Occurred

Sense of Doom Eases as Virus Cases Dip

By JULIE BOSSMAN and MITCH SMITH
CHICAGO — More than 2,600 Americans are dying from Covid-19 each day, an alarming rate that has climbed by 10 percent in the last month. Across the United States, the coronavirus pandemic has now claimed more than 800,000 lives.

Yet another simultaneous reality of the pandemic offers reason for hope. The number of new coronavirus infections is plummeting, falling by more than half since mid-January. Hospitalizations are also declining, a relief to stressed health care workers who have been treating desperately ill coronavirus patients for nearly two years.

All that has created a disconcerting moment in the pandemic:

Though deaths are still mounting, the threat from the virus is moving, for now, farther into the background of daily life for many Americans.

Patricia Tracy of Mundelein, Ill., has seen the disconnect up close. In her county, new infections have fallen in recent weeks as the highly infectious Omicron variant has largely replaced the previous variants.

But she still sees the damage it has done. Her son, Michael Tracy, 31, died from Covid. Ms. Tracy, 81, a native of San Francisco but is competing for China. Can she bridge the political rift? Page D3.

NATIONAL A1-18
'Trump Is Wrong,' Pence Says
In his most forceful rebuttal of the former president's claims, the former vice president said he lacked the power to overturn the 2020 election. PAGE A14

G.O.P. Maps Struck Down
North Carolina's State Supreme Court has new House and state legislative districts violate guarantees of free elections, speech and assembly. PAGE AD

Avenatti Is Found Guilty
The lawyer Michael Avenatti was convicted of wire fraud and aggravated mail theft for stealing almost \$300,000 from Stormy Daniels. PAGE A18

INTERNATIONAL A4-10
Congo Survivors Speak Out
After a frenzied assault on refugees, victims were airlifted to a hospital, where they told their stories. PAGE A8

Rush to Save Boy in a Well
Rescuers in Morocco raced to tunnel down to save a 5-year-old trapped in a 100-foot well for three days. PAGE A10

BUSINESS B1-6
Britons Feeling Squeezed
In Britain, consumer prices are rising at the fastest pace in three decades. People with the lowest incomes are running out of ways to cut back, and the worst is yet to come. PAGE B1

New Union Vote at Amazon
Workers at an Alabama warehouse overwhelmingly voted to join a union to organize last year, but federal labor regulators threw out the result, citing company misconduct. PAGE B1

OPINION A29-21
Jon A. Shields
PAGE A20

ARTS C1-7
Soldiers With a Familiar Face
Before his death, the actor Michael K. Williams sat for Chaz Guest's series of Black warrior paintings. PAGE CI

TEMPLATES FOR AFFORDABILITY
In the Bronx, developers found ways to build sleek apartment buildings for low- and moderate-income tenants. PAGE CI

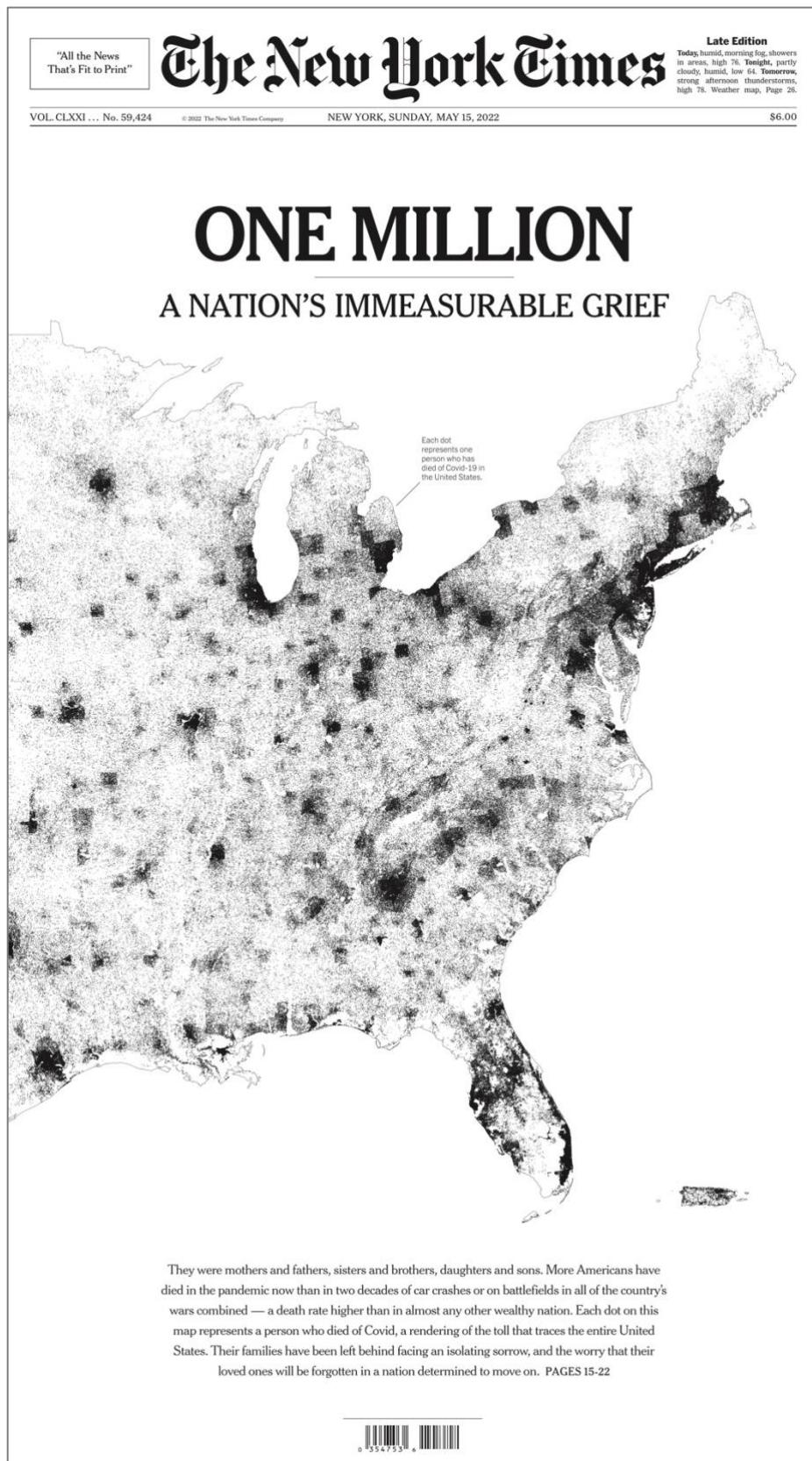
SPORTS D1-12
An Ex-Coach's Daring Call
Those close to Brian Flares say his bias against the N.F.L. is in keeping with the sense of moral rectitude he learned growing up in Brooklyn. PAGE DI

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A Visionary in Publishing
Jason Epstein brought quality publishing to American readers and helped create The New York Review of Books. He was 83. PAGE B8

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Front page figure 9: The New York Times, 5/2/2022, Front page, <https://static01.nyt.com/images/2022/02/05/nytfrontpage/scan.pdf>

1,000,000 deaths



Front page figure 10: The New York Times, 15/5/2022, Front page,
<https://static01.nyt.com/images/2022/05/15/nytfrontpage/scan.pdf>