



MD System

MD System Narrow

MD System Condensed



MD System

---

Regular  
 Medium  
**Semibold**  
**Bold**  
**Black**

*Italic*  
*Medium Italic*  
***Semibold Italic***  
***Bold Italic***  
***Black Italic***

MD System Narrow

---

Regular  
 Medium  
**Semibold**  
**Bold**  
**Black**

*Italic*  
*Medium Italic*  
***Semibold Italic***  
***Bold Italic***  
***Black Italic***

MD System Condensed

---

Regular  
 Medium  
**Semibold**  
**Bold**  
**Black**

*Italic*  
*Medium Italic*  
***Semibold Italic***  
***Bold Italic***  
***Black Italic***

Designer (450) A

*[1276] ALGORITHMIC!*  
Incandescent Lighting

SAN FRANCISCO, CALIFORNIA  
*Lithium-ion Battery Manufacturer*  
6502 Cells Produced Each Day

*M5 Southbound*

**“AMSTERDAM–ZUID”**  
*Metrolijn naar De Pijp*

*GROTESQUE TYPEFACES N°68*  
Type Foundries in The Hague, ZH, NL  
*374-56 (International) Suppliers*

**Swiss Water, 157**

***INT'L DEPARTURES* →  
2087–B Straßenbahn**

**NEW LIVE SHOW ANNOUNCED  
*Techniques for A/B Testing (30)*  
ISO A4 Paper Standardization**

**Phoenix, Arizona**

**NEW YORK SUBWAY  
*Grotesque №36 Bold***

***FILES → DOCUMENTS → A2.PSD  
Untitled-1 [RGB] · 250% Zoom  
510 Revolutionary New Artworks***



96pt

Double-story italic *a*

-20%

# ***Space Launch 5***

72pt

Oldstyle figures

-14%

**ADDITIONAL DELTA**  
***360 Seconds Vacuum***

40pt

-10%

***MAY 5: POSTER WORKSHOP***  
**Open Studio (students welcome)**  
***Bring Materials; Slots Limited***

# Heavy Industrial 210

*A SHORTFALL OF GRAVITAS*  
Engineer (Digital Systems)

EA-124 LOUNGE CHAIR [ALUMINIUM]  
*Mid-Century Modern Design Aesthetics*  
Second-hand; Good condition; €650





96pt

-20%

***A38, Junction 27 (N)***

72pt

-14%

**WEATHER REPORT – 14:00**  
***“Light Showers Predicted”***

40pt

-10%

***PRINTING INK (SECOND FORMULA)***  
**Fine Impression · 2,400 Page Coverage**  
***£356 Biologically Safe & Non-Toxic***

**‘COLD-BREW’ € 4.-**

***SCHOOL OF TYPE DESIGN***  
**(Small Basement Studio)**

**144 Hz REFRESH RATE · IPS DISPLAY**  
***Horizontally or vertically mounted setup***  
**340, Information Design; 341, Layout**



96pt

-20%

***Light Railway 34/A***

72pt

-14%

**PROCEDURAL TERRAIN**  
***Survival Simulation Game***

40pt

-10%

***“100% PEAR CIDER, NO ADDITIVES.”***  
**Rainforest Suite® V1.3 - Nmesh (2014)**  
***[12-Mt] Tunguska Event; 1908; A.***



**Marshmallow 236**

***MUSEUMNACHT A'DAM***  
**Late Night Gallery Event**

***2M 'TITAN ARUM' INFLORESCENCE***  
**World's Largest Flowering Structure**  
***The plant's 10-year bloom cycle,***



96pt

-20%

# Alternating Current 28

72pt

-14%

*CENSUS & EXCISE OFFICES*  
Nerevarine; ‘Moon-And-Star’

40pt

Small caps

-10%

ENVIRONMENTALISM VS THE OIL EXECUTIVE  
*A New NOVEL with a CONTEMPORARY Edge*  
Available from MAY 2023 · Price €9.95



***DRAGON & DUNGEON***

**COPYRIGHT & LICENSING Co.**  
***120 gsm Archival Paper print***

***TRADEMARK™ RULE SET [p 458] THEORY***  
**1998: Physical Media & the Behaviors of Ink**  
***Iron(II) Sulfate, a.k.a. “Green Vitriol” Salts***

**'s-Gravenhage, ZH, NL**

***ROASTERY & COFFEE HOUSE***  
**100% Responsibly-Sourced\***

**47 CULTURAL & 82 LOCAL INSTITUTIONS**  
***Worldwide [Incl. 36 Countries] Organization***  
**Space Telescope (1996; Launched 2022)**



# ***5A: The Planet Arrakis***

**SAGUARO, 38; DRY GRASS, 1**  
***Microgramma heterophylla***

***LOW FOG OVER A CALM ATLANTIC COAST***  
**3 Vacuum-Optimized Upper Stage Engines**  
***Structural (5) and Procedural (6) Fixes***





# 23.1; Right Ascension

**2020's "UTAH MONOLITH"  
Discovered by Surveyors**

**'INTERNATIONAL TYPOGRAPHIC STYLE'  
Nov. 24, 1985. South Utsire Lighthouse.  
*Myrmecophytic*<sup>(23)</sup> *Plant Biology, B1***



16 / 20 pt

Oldstyle figures

In 1960, the 11th CGPM synthesised the results of the 12-year study into a set of 16 resolutions. The system was named the *International System of Units*, abbreviated SI from the French name, *Le Système International d'Unités*. When Maxwell first introduced the concept of a coherent system, he identified three quantities that could be used as base units: *mass*, *length*, and *time*. Giorgi later identified the need for an electrical base unit, for which the unit of *electric current* was chosen for SI.

13 / 16 pt

The Space Launch System (*abbreviated as SLS*) is an American *super heavy-lift expendable launch vehicle* under development by NASA since 2011. As of March 2022, the first launch is scheduled for no earlier than June 2022, pending the success of a wet dress rehearsal test after the Axiom-1 Launch.<sup>[20]</sup> The SLS is a *Space Shuttle-derived* launch vehicle. The first stage of the rocket is powered by one central core stage and two outboard solid rocket

11 / 14 pt +3%

In October 2006, LCD Soundsystem released a composition entitled “45:33”, as part of Nike’s *Original Run* series. It was made available for download from iTunes. Despite its name, the track is actually *45 minutes and 58 seconds long* — the title is a reference to vinyl speeds (33 and 45 RPM) — and was claimed to “*reward and push at good intervals of a run*”. However, it was later revealed that this was not the case, but that Murphy merely wanted the opportunity to create a long piece of music, akin to *E2-E4* by

9.5 / 12 pt +6%

Legible forms

In addition to the negative consequences of sleep deprivation, sleep and the intertwined circadian system have been shown to have strong regulatory effects on immunological functions affecting *both innate and adaptive immunity*. First, during the early slow-wave-sleep stage, a sudden drop in blood levels of *cortisol*, *epinephrine*, and *norepinephrine* causes increased blood levels of the hormones *leptin*, *pituitary growth hormone*, and *prolactin*. These signals induce a pro-inflammatory

8 / 10 pt +10%

The first ever known *artificial feedback device* was a float valve, for maintaining water at a constant level, invented in 270 BC in Alexandria, Egypt. This device illustrated the principle of feedback: *a low water level opens the valve, the rising water then provides feedback into the system, closing the valve when the required level is reached*. This then reoccurs in a circular fashion as the water level fluctuates. *Centrifugal governors* were used to regulate the distance and pressure between millstones in windmills since the 17th century. In 1788, James Watt designed his first centrifugal governor following a suggestion from his

7 / 9 pt +15%

Legible forms

A nunatak (from Inuit *nunataq*) is the summit or ridge of a mountain that protrudes from an ice field or glacier that otherwise covers most of the mountain or ridge. They are also called *glacial islands*.<sup>[2]</sup> Examples are natural pyramidal peaks. When rounded by glacial action, smaller rock promontories may be referred to as *rogngons*. The word is of Greenlandic origin<sup>[5]</sup> and has been used in English since the 1870s. The term is typically used in *areas where a permanent ice sheet is present and the nunataks protrude above the sheet*.<sup>[6]</sup> Nunataks present readily identifiable landmark reference points in glaciers or ice caps and are often named. While some nunataks



16 / 20 pt

The *Interim Cryogenic Propulsion Stage (ICPS)* is planned to fly on Artemis 1, 2, and 3 as the upper stage of *Space Launch System Block 1*. It is a stretched and human-rated Delta IV 5m (16 ft) *Delta Cryogenic Second Stage* powered by a single RL10 engine. The first ICPS will use the RL10B-2 variant, while the second and third ICPS will use the RL10C-2 variant. Block 1 is intended to be capable of lifting 95t (93 long tons; 105 short tons) to low Earth orbit (LEO) in this configuration, including the

13 / 16 pt

Single-story g

Most NASA systems are *sufficiently complex that their components are subsystems*, which must function in a coordinated way for the system to accomplish its goals. From the point of view of systems engineering, each subsystem is a system in its own right — that is, *policies, requirements, objectives, and which costs are relevant* are established at the next level up in the hierarchy. *Spacecraft systems* often have such subsystems as

11 / 14 pt +3%

Legible forms

Biofouling occurs because water is a favorable environment for many life forms. *Flow characteristics of recirculating cooling water systems encourage colonization by sessile organisms* to use the circulating supply of food, oxygen and nutrients. Temperatures may become high enough to support thermophilic populations. *Biofouling of heat exchange surfaces can reduce heat transfer rates of the cooling system*; and biofouling of cooling towers can alter flow distribution to reduce evaporative cooling

9.5 / 12 pt +6%

Oldstyle figures

One of the first known instances in which spatial analysis was used came from the field of epidemiology in the *“Rapport sur la marche et les effets du choléra dans Paris et le département de la Seine”* (1832). French geographer and cartographer, Charles Picquet created a map outlining the forty-eight Districts in Paris, using halftone color gradients, to provide a visual representation for the *number of reported deaths due to cholera per 1,000 inhabitants*. In 1854, John Snow, an

8 / 10 pt +10%

Double-story italic a, g

The player can upgrade their skills by using *“cyber-modules”* given as rewards for completing objectives, such as searching the ship, and then spend them at devices called *“cyber-upgrade units”* to obtain enhanced skills. *Operating System (O/S) units* allow one-time character upgrades to be made (e.g. permanent health enhancement). An in-game currency called *“nanites”* may be spent on items at vending machines, including ammunition supplies and health packs. *“Quantum Bio-Reconstruction Machines”* can be activated and re-constitute the player for 10 nanites if they die inside the

7 / 9 pt +15%

By the late 1970s two public domain GIS systems (MOSS and GRASS GIS) were in development, and by the early 1980s, M&S Computing (later Intergraph) along with Bentley Systems Incorporated for the CAD platform, Environmental Systems Research Institute (ESRI), CARIS (Computer Aided Resource Information System), and ERDAS (Earth Resource Data Analysis System) emerged as commercial vendors of GIS software, successfully incorporating many of the CGIS features, combining the first generation approach to *separation of spatial and attribute information* with a second generation approach to *organizing attribute data into database structures*.



16 / 20 pt

Saturn (*9.5 AU [1.42 billion km; 880 million mi]* from the Sun), distinguished by its extensive ring system, has several similarities to Jupiter, such as its atmospheric composition and magnetosphere. Although Saturn has 60% of Jupiter's volume, it is *less than a third as massive*, at 95 Earth masses. Saturn is the only planet of the Solar System that is *less dense than water* — about 30% less.<sup>[36]</sup> Although Saturn's core is considerably *denser* than water, the average specific density of the

13 / 16 pt

1–127. *Opening of the OXIDIZER VALVES* permits oxidizer to flow to the combustion zone of the thrust chamber and also mechanically opens the sequence valves. When the *SEQUENCE VALVES* open, control fluid is directed to the *opening port of the gas generator CONTROL VALVE*. Opening of the gas generator control valve admits propellants to the gas generator *COMBUSTOR* where the propellants are ignited by the *gas generator*

11 / 14 pt +3%

Frutiger (with Howard 'Bud' Kettler) adapted Univers for the *IBM Selectric Composer* in the 1960s. This was an ultra-premium electric 'golfball' typewriter system, intended to be used for producing *high-quality office documents* or copy to be photographically enlarged for small-scale printing projects. Unlike most typewriters, the Composer produced *proportional type, rather than monospaced letters*. Ultimately the system proved a transitional product, as it was displaced by cheaper

9.5 / 12 pt +6%

The latter have orbits whose periods are in a *simple ratio* to that of Neptune: for example, going around the Sun *twice* for every *three times* that Neptune does, or *once* for every *two*. The classical belt consists of objects having no resonance with Neptune, and extends from roughly 39.4 to 47.7 AU (5.89 to 7.14 billion km; 3.66 to 4.43 billion mi). *Members of the classical Kuiper belt are sometimes called "cubewanos"*, after the first of their kind to be discovered, 1992 QB<sub>1</sub>; they

8 / 10 pt +10%

WPS represents objects such as *disks, folders, files, program objects, and printers* using the *System Object Model* (SOM), which allows code to be shared among applications, possibly written in different programming languages. A distributed version called *DSOM* allowed objects on different computers to communicate. *DSOM* is based on *CORBA*. The object oriented aspect of *SOM* is similar to, and a direct competitor to, Microsoft's *Component Object Model*, though it is implemented in a radically different manner; for instance, one of the most notable differences between *SOM* and *COM* is *SOM's*

7 / 9 pt +15%

The engine features a *two-piece thrust chamber* that is tubular-walled and *regeneratively cooled to the 10:1 expansion ratio plane*, and double-walled and *turbine gas cooled to the 16:1 expansion ratio plane*; a thrust chamber mounted turbopump that has two centrifugal pumps spline-connected on a single shaft driven by a two-stage, direct-driven turbine; one-piece rigid propellant ducts that are used in pairs to direct the fuel and oxidizer to the thrust chamber; and a *hypergolic fluid cartridge that is used for thrust chamber ignition*. The engine is within an envelope 12 feet in diameter and 16 feet long and weighs approximately 18,500 pounds



16 / 20 pt

***Fast inverse square root***, sometimes referred to as ***Fast InvSqrt()*** or by the hexadecimal constant ***0x5F3759DF***, is an algorithm that estimates the reciprocal (or multiplicative inverse) of the square root of a 32-bit floating-point number  $x$  in ***IEEE 754 floating-point format***. This operation is used in digital signal processing to normalize a vector, such as ***scaling it to length 1***. For example, computer graphics programs use inverse square roots to ***compute angles of incidence***

13 / 16 pt

***The Braer Storm*** was the most intense extratropical cyclone ever recorded over the northern Atlantic Ocean. ***Developing as a weak frontal wave*** on 8 January 1993, the system moved rapidly northeast. The combination of the ***absorption of a second low-pressure area*** to its southeast, a ***stronger than normal sea surface temperature differential*** along its path, and the presence of a ***strong jet stream aloft*** led to a rapid

11 / 14 pt +3%

***As in other computer systems***, RAM can be subdivided into relatively faster but more expensive ***static RAM (SRAM)*** and the slower but cheaper ***dynamic RAM (DRAM)***. When an SoC has a ***cache hierarchy***, SRAM will usually be used to implement processor registers and cores' built-in caches ***whereas DRAM will be used for main memory***. "Main memory" may be specific to a single processor (which can be multi-core) ***when the SoC has multiple processors***; in this case it is ***distributed memory***

9.5 / 12 pt +6%

***The Physical Impossibility of Death in the Mind of Someone Living*** is an artwork created in 1991 by Damien Hirst, an English artist and a leading member of the ***"Young British Artists"*** (or YBA). It consists of a ***preserved tiger shark submerged in formaldehyde*** in a glass-panel display case. It was originally commissioned in 1991 by Charles Saatchi, ***who sold it in 2004 to Steven A. Cohen*** for an undisclosed amount, widely reported to have been at least \$8

8 / 10 pt +10%

Found in South Korea, ***it was formally described as a new species in 2014*** by lichenologists André Aptroot and Kwang-Hee Moon. ***The type specimens were collected by the first author from Mabok-san mountain*** (Goheung County, South Jeolla Province) at altitudes between 200 and 500 m (660 and 1,640 ft); there, the ***lichen was overgrowing mosses*** that were growing on siliceous rock. It has a thin (less than 0.1 mm thick) mottled ***greyish and olive green thallus*** covering areas of up to about 15 cm (6 in). The thallus lacks a cortex; rather, it comprises ***small, irregularly shaped areoles*** on a

7 / 9 pt +15%

***The history of the RS-25*** traces back to the 1960s, when NASA's ***Marshall Space Flight Center*** and ***Rocketdyne*** were conducting a series of studies on high-pressure engines, ***developed from the successful J-2 engine*** used on the S-II and S-IVB upper stages of the Saturn V rocket during the Apollo program. The studies were conducted under a program ***to upgrade the Saturn V engines***, which produced a design for a 350,000 lbf (1,600 kN) upper-stage engine known as the HG-3. As funding levels for Apollo wound down the HG-3 was cancelled as well as the upgraded F-1 engines already being tested. It was the design for the



16 / 20 pt

Legible Forms

**System 7.1.2 is the first version of the *Macintosh System Software* to support Apple's new *PowerPC-based computers*. 68k applications that had not yet been updated to run natively on these systems were emulated transparently (*without the user having to intervene*) by a built-in 68k processor emulator. *Fat binaries*, which contained the code necessary to run natively on both *PowerPC and 68k systems*, became common during this time. This process was similar to the**

13 / 16 pt

Double-story italic *a, g*

**The *Sumerian archaic cuneiform script* closely followed by the *Egyptian hieroglyphs* are generally considered the earliest writing systems, both emerging out of their ancestral proto-literate symbol systems *from 3400 to 3200 BC*, with earliest coherent texts from about 2600 BC. *It is generally agreed* that the historically earlier Sumerian writing was an independent invention; *however, it is debated whether***

11 / 14 pt +3%

***Jellyfish, comb jellies*, and related animals have *diffuse nerve nets* rather than a *central nervous system*. In most jellyfish the nerve net is spread more or less evenly across the body; in comb jellies it is concentrated near the mouth. *The nerve nets consist of sensory neurons*, which pick up chemical, tactile, and visual signals; *motor neurons*, which can activate contractions of the body wall; and *intermediate neurons*, which detect *patterns of activity* in the sensory neurons and,**

9.5 / 12 pt +6%

Oldstyle figures

**As of March 2023, a total of *7,124 737NG aircraft* had been ordered, of which *7,101* had been delivered, with remaining orders for *two -800*, and *21 -800A variants*. The most-ordered variant was the *737-800*, with *4,991* commercial, *191* military, and *23* corporate, or a total of *5,205* aircraft. *Boeing stopped assembling commercial 737NGs* in 2019 and made the final deliveries in January 2020. The *737NG* is superseded by the fourth generation *737 MAX*,**

8 / 10 pt +10%

**FIGURE 5 (foldout, next page) details the resulting *management and major systems engineering products* and *control gates* that characterize the phases in NMI 7120.4 and NHB 7120.5. Sections 3.1 to 3.6 contain narrative descriptions of the *purposes, major activities, products, and control gates* of the NASA project life cycle phases. Section 3.7 provides a more concentrated discussion of *the role of systems engineering* in the process. Section 3.8 describes the NASA budget cycle within which program/project managers and system engineers**

7 / 9 pt +15%

***Configuration verification* is the process of verifying that resulting products (e.g., hardware and software items) conform to the *intentions of the designers* and to the *standards established by preceding approved baselines*, and that baseline documentation is *current and accurate*. Configuration verification is accomplished by two types of control gate activity: *audits and technical reviews*. (See Section 4.8.4 for additional information on two important examples: the *Physical Configuration Audit* and the *Design Certification Review*.) Each of these serves to review and challenge the data presented for conformance to**



16 / 20 pt

Oldstyle figures

In 1960, the 11th CGPM synthesised the results of the 12-year study into a set of 16 resolutions. The system was named the *International System of Units*, abbreviated SI from the French name, *Le Système International d'Unités*. When Maxwell first introduced the concept of a coherent system, he identified three quantities that could be used as base units: *mass*, *length*, and *time*. Giorgi later identified the need for an electrical base unit, for which the unit of *electric current* was chosen for SI. Another three base units (for *temperature*, *amount of*

13 / 16 pt

The Space Launch System (*abbreviated as SLS*) is an American *super heavy-lift expendable launch vehicle* under development by NASA since 2011. As of March 2022, the first launch is scheduled for no earlier than June 2022, pending the success of a wet dress rehearsal test after the Axiom-1 Launch.<sup>[20]</sup> The SLS is a *Space Shuttle-derived* launch vehicle. The first stage of the rocket is powered by *one central core stage* and *two outboard solid rocket boosters*. All SLS Blocks share a common core stage

11 / 14 pt +3%

In October 2006, LCD Soundsystem released a composition entitled “45:33”, as part of Nike’s *Original Run* series. It was made available for download from iTunes. Despite its name, the track is actually *45 minutes and 58 seconds long* — the title is a reference to vinyl speeds (33 and 45 RPM) — and was claimed to “*reward and push at good intervals of a run*”. However, it was later revealed that this was not the case, but that Murphy merely wanted the opportunity to create a long piece of music, akin to *E2-E4* by Manuel Göttsching. LCD Soundsystem’s second studio album, *Sound*

9.5 / 12 pt +6%

Legible forms

In addition to the negative consequences of sleep deprivation, sleep and the intertwined circadian system have been shown to have strong regulatory effects on immunological functions affecting *both innate and adaptive immunity*. First, during the early slow-wave-sleep stage, a sudden drop in blood levels of *cortisol*, *epinephrine*, and *norepinephrine* causes increased blood levels of the hormones *leptin*, *pituitary growth hormone*, and *prolactin*. These signals induce a pro-inflammatory state through the production of the pro-inflammatory cytokines

8 / 10 pt +10%

The first ever known *artificial feedback device* was a float valve, for maintaining water at a constant level, invented in 270 BC in Alexandria, Egypt. This device illustrated the principle of feedback: *a low water level opens the valve, the rising water then provides feedback into the system, closing the valve when the required level is reached*. This then reoccurs in a circular fashion as the water level fluctuates. *Centrifugal governors* were used to regulate the distance and pressure between millstones in windmills since the 17th century. In 1788, James Watt designed his first centrifugal governor *following a suggestion from his business partner Matthew Boulton*, for use in the steam engines

7 / 9 pt +15%

Legible forms

A nunatak (from Inuit *nunataq*) is the summit or ridge of a mountain that protrudes from an ice field or glacier that otherwise covers most of the mountain or ridge. They are also called *glacial islands*.<sup>[2]</sup> Examples are natural pyramidal peaks. When rounded by glacial action, smaller rock promontories may be referred to as *rognons*. The word is of Greenlandic origin<sup>[6]</sup> and has been used in English since the 1870s. The term is typically used in *areas where a permanent ice sheet is present and the nunataks protrude above the sheet*.<sup>[6]</sup> Nunataks present readily identifiable landmark reference points in glaciers or ice caps and are often named. While some nunataks are isolated, sometimes they form *dense clusters, such as Queen Louise*



16 / 20 pt

The *Interim Cryogenic Propulsion Stage (ICPS)* is planned to fly on Artemis 1, 2, and 3 as the upper stage of *Space Launch System Block 1*. It is a stretched and human-rated Delta IV 5m (16 ft) *Delta Cryogenic Second Stage* powered by a single RL10 engine. The first ICPS will use the RL10B-2 variant, while the second and third ICPS will use the RL10C-2 variant. Block 1 is intended to be capable of lifting 95t (*93 long tons; 105 short tons*) to low Earth orbit (LEO) in this configuration, including the weight of the ICPS as part of the payload. The

13 / 16 pt

Single-story g

Most NASA systems are *sufficiently complex that their components are subsystems*, which must function in a coordinated way for the system to accomplish its goals. From the point of view of systems engineering, each subsystem is a system in its own right — that is, *policies, requirements, objectives, and which costs are relevant* are established at the next level up in the hierarchy. *Spacecraft systems* often have such subsystems as *propulsion, attitude control, telecommunications, and power*.

11 / 14 pt +3%

Legible forms

Biofouling occurs because water is a favorable environment for many life forms. *Flow characteristics of recirculating cooling water systems encourage colonization by sessile organisms* to use the circulating supply of food, oxygen and nutrients. Temperatures may become high enough to support thermophilic populations. *Biofouling of heat exchange surfaces can reduce heat transfer rates of the cooling system*; and biofouling of cooling towers can alter flow distribution to reduce evaporative cooling rates. Biofouling may also create *differential oxygen concentrations*,

9.5 / 12 pt +6%

Oldstyle figures

One of the first known instances in which spatial analysis was used came from the field of epidemiology in the *“Rapport sur la marche et les effets du choléra dans Paris et le département de la Seine”* (1832). French geographer and cartographer, Charles Picquet created a map outlining the forty-eight Districts in Paris, using halftone color gradients, to provide a visual representation for the *number of reported deaths due to cholera per 1,000 inhabitants*. In 1854, John Snow, an epidemiologist and physician, was able to determine

8 / 10 pt +10%

Double-story italic a, g

The player can upgrade their skills by using *“cyber-modules”* given as rewards for completing objectives, such as searching the ship, and then spend them at devices called *“cyber-upgrade units”* to obtain enhanced skills. *Operating System (O/S) units* allow one-time character upgrades to be made (e.g. permanent health enhancement). An in-game currency called *“nanites”* may be spent on items at vending machines, including ammunition supplies and health packs. *“Quantum Bio-Reconstruction Machines”* can be activated and reconstitute the player for 10 nanites if they die inside the area in which the machine resides. Otherwise, the game ends and *progress must be resumed from a*

7 / 9 pt +15%

By the late 1970s two public domain GIS systems (MOSS and GRASS GIS) were in development, and by the early 1980s, M&S Computing (later Intergraph) along with Bentley Systems Incorporated for the CAD platform, *Environmental Systems Research Institute (ESRI)*, *CARIS (Computer Aided Resource Information System)*, and *ERDAS (Earth Resource Data Analysis System)* emerged as commercial vendors of GIS software, successfully incorporating many of the CGIS features, combining the first generation approach to *separation of spatial and attribute information* with a second generation approach to *organizing attribute data into database structures*. In 1986, *Mapping Display and Analysis System (MIDAS)*, the first





16 / 20 pt

Saturn (9.5 AU [1.42 billion km; 880 million mi] from the Sun), distinguished by its extensive ring system, has several similarities to Jupiter, such as its atmospheric composition and magnetosphere. Although Saturn has 60% of Jupiter's volume, it is *less than a third as massive*, at 95 Earth masses. Saturn is the only planet of the Solar System that is *less dense than water* — about 30% less.<sup>[36]</sup> *The rings of Saturn* are made up of small ice and rock particles.<sup>[134]</sup> Saturn has *83 confirmed satellites* composed largely of ice. Two of these, *Titan and*

13 / 16 pt

1–127. *Opening of the OXIDIZER VALVES* permits oxidizer to flow to the combustion zone of the thrust chamber and also mechanically opens the sequence valves. When the *SEQUENCE VALVES* open, control fluid is directed to the *opening port of the gas generator CONTROL VALVE*. Opening of the gas generator control valve admits propellants to the gas generator *COMBUSTOR* where the propellants are ignited by the *gas generator igniters*. The resultant *fuel-rich hot gases* are directed

11 / 14 pt +3%

Frutiger (with Howard 'Bud' Kettler) adapted Univers for the *IBM Selectric Composer* in the 1960s. This was an ultra-premium electric 'golfball' typewriter system, intended to be used for producing *high-quality office documents* or copy to be photographically enlarged for small-scale printing projects. Unlike most typewriters, the Composer produced *proportional type, rather than monospaced letters*. Ultimately the system proved a transitional product, as *it was displaced by cheaper phototypesetting*, and then in the 1980s *by word processors and*

9.5 / 12 pt +6%

The latter have orbits whose periods are in a *simple ratio* to that of Neptune: for example, going around the Sun *twice* for every *three times* that Neptune does, or *once* for every *two*. The classical belt consists of objects having no resonance with Neptune, and extends from roughly 39.4 to 47.7 AU (5.89 to 7.14 billion km; 3.66 to 4.43 billion mi). *Members of the classical Kuiper belt are sometimes called "cubewanos"*, after the first of their kind to be discovered, 1992 QB<sub>1</sub>; they are still in near primordial, low-eccentricity orbits. *The dwarf*

8 / 10 pt +10%

WPS represents objects such as *disks, folders, files, program objects, and printers* using the *System Object Model (SOM)*, which allows code to be shared among applications, possibly written in different programming languages. A distributed version called *DSOM* allowed objects on different computers to communicate. *DSOM* is based on *CORBA*. The object oriented aspect of *SOM* is similar to, and a direct competitor to, Microsoft's *Component Object Model*, though it is implemented in a radically different manner; for instance, one of the most notable differences between *SOM* and *COM* is *SOM's* support for inheritance (one of the most fundamental concepts of *OO pro-*

7 / 9 pt +15%

The engine features a *two-piece thrust chamber* that is tubular-walled and *regeneratively cooled to the 10:1 expansion ratio plane*, and double-walled and *turbine gas cooled to the 16:1 expansion ratio plane*; a thrust chamber mounted turbopump that has two centrifugal pumps spline-connected on a single shaft driven by a two-stage, direct-driven turbine; one-piece rigid propellant ducts that are used in pairs to direct the fuel and oxidizer to the thrust chamber; and a *hypergolic fluid cartridge that is used for thrust chamber ignition*. The engine is within an envelope 12 feet in diameter and 16 feet long and weighs approximately 18,500 pounds dry. *Thrust vector changes* are achieved by gimbaling



16 / 20 pt

***Fast inverse square root***, sometimes referred to as ***Fast InvSqrt()*** or by the hexadecimal constant ***0x5F3759DF***, is an algorithm that estimates the reciprocal (or multiplicative inverse) of the square root of a 32-bit floating-point number  $x$  in ***IEEE 754 floating-point format***. This operation is used in digital signal processing to normalize a vector, such as ***scaling it to length 1***. For example, computer graphics programs use inverse square roots to ***compute angles of incidence*** and reflection for lighting and shading. Predated by

13 / 16 pt

***The Braer Storm*** was the most intense extratropical cyclone ever recorded over the northern Atlantic Ocean. ***Developing as a weak frontal wave*** on 8 January 1993, the system moved rapidly northeast. The combination of the ***absorption of a second low-pressure area*** to its southeast, a ***stronger than normal sea surface temperature differential*** along its path, and the presence of a ***strong jet stream aloft*** led to a rapid strengthening of the storm, with its central

11 / 14 pt +3%

***As in other computer systems***, RAM can be subdivided into relatively faster but more expensive ***static RAM (SRAM)*** and the slower but cheaper ***dynamic RAM (DRAM)***. When an SoC has a ***cache hierarchy***, SRAM will usually be used to implement processor registers and cores' built-in caches ***whereas DRAM will be used for main memory***. "Main memory" may be specific to a single processor (which can be multi-core) ***when the SoC has multiple processors***; in this case it is ***distributed memory*** and must be sent via ***intermodule communication on-***

9.5 / 12 pt +6%

***The Physical Impossibility of Death in the Mind of Someone Living*** is an artwork created in 1991 by Damien Hirst, an English artist and a leading member of the "Young British Artists" (or YBA). It consists of a ***preserved tiger shark submerged in formaldehyde*** in a glass-panel display case. It was originally commissioned in 1991 by Charles Saatchi, ***who sold it in 2004 to Steven A. Cohen*** for an undisclosed amount, widely reported to have been at least \$8 million. However, the title of Don Thompson's book, ***The \$12 Million***

8 / 10 pt +10%

Found in South Korea, ***it was formally described as a new species in 2014*** by lichenologists André Aptroot and Kwang-Hee Moon. ***The type specimens were collected by the first author from Mabok-san mountain*** (Goheung County, South Jeolla Province) at altitudes between 200 and 500 m (660 and 1,640 ft); there, ***the lichen was overgrowing mosses*** that were growing on siliceous rock. It has a thin (less than 0.1 mm thick) mottled ***greyish and olive green thallus*** covering areas of up to about 15 cm (6 in). The thallus lacks a cortex; rather, it comprises ***small, irregularly shaped areoles*** on a somewhat gelatinous crust. ***The photobiont partner*** of the lichen is a

7 / 9 pt +15%

***The history of the RS-25*** traces back to the 1960s, when NASA's ***Marshall Space Flight Center*** and ***Rocketdyne*** were conducting a series of studies on high-pressure engines, ***developed from the successful J-2 engine*** used on the S-II and S-IVB upper stages of the Saturn V rocket during the Apollo program. The studies were conducted under a program to ***upgrade the Saturn V engines***, which produced a design for a 350,000 lbf (1,600 kN) upper-stage engine known as the HG-3. As funding levels for Apollo wound down the HG-3 was cancelled as well as the upgraded F-1 engines already being tested. It was the design for the HG-3 that would form the basis for the RS-25. Meanwhile, in 1967, the



**System 7.1.2 is the first version of the *Macintosh System Software* to support Apple's new *PowerPC-based computers*. 68k applications that had not yet been updated to run natively on these systems were emulated transparently (*without the user having to intervene*) by a built-in 68k processor emulator. *Fat binaries*, which contained the code necessary to run natively on both *PowerPC and 68k systems*, became common during this time. This process was similar to the distribution of universal binaries**

**The *Sumerian archaic cuneiform script* closely followed by the *Egyptian hieroglyphs* are generally considered the earliest writing systems, both emerging out of their ancestral proto-literate symbol systems *from 3400 to 3200 BC*, with earliest coherent texts from about 2600 BC. *It is generally agreed* that the historically earlier Sumerian writing was an independent invention; *however, it is debated whether* Egyptian writing was developed completely**

***Jellyfish, comb jellies*, and related animals have *diffuse nerve nets* rather than a *central nervous system*. In most jellyfish the nerve net is spread more or less evenly across the body; in comb jellies it is concentrated near the mouth. *The nerve nets consist of sensory neurons*, which pick up chemical, tactile, and visual signals; *motor neurons*, which can activate contractions of the body wall; and *intermediate neurons*, which detect *patterns of activity* in the sensory neurons and, in response, send signals to *groups of motor***

**As of March 2023, a total of 7,124 737NG aircraft had been ordered, of which 7,101 had been delivered, with re-remaining orders for two -800, and 21 -800A variants. The most-ordered variant was the 737-800, with 4,991 commercial, 191 military, and 23 corporate, or a total of 5,205 aircraft. Boeing stopped assembling commercial 737NGs in 2019 and made the final deliveries in January 2020. The 737NG is superseded by the fourth generation 737 MAX, introduced in 2017. The first NG to roll out was a 737-700,**

**FIGURE 5 (foldout, next page) details the resulting *management and major systems engineering products and control gates* that characterize the phases in NMI 7120.4 and NHB 7120.5. Sections 3.1 to 3.6 contain narrative descriptions of the *purposes, major activities, products, and control gates* of the NASA project life cycle phases. Section 3.7 provides a more concentrated discussion of *the role of systems engineering* in the process. Section 3.8 describes the NASA budget cycle within which program/project managers and system engineers must operate. *The purpose of this activity*, which is usually performed more or less**

***Configuration verification* is the process of verifying that resulting products (e.g., hardware and software items) conform to the *intentions of the designers* and to the *standards established by preceding approved baselines*, and that baseline documentation is *current and accurate*. Configuration verification is accomplished by two types of control gate activity: *audits and technical reviews*. (See Section 4.8.4 for additional information on two important examples: the *Physical Configuration Audit* and the *Design Certification Review*.) Each of these serves to review and challenge the data presented for conformance to the previously approved baseline. *Configuration accounting***



16 / 20 pt

Oldstyle figures

In 1960, the 11th CGPM synthesised the results of the 12-year study into a set of 16 resolutions. The system was named the *International System of Units*, abbreviated SI from the French name, *Le Système International d'Unités*. When Maxwell first introduced the concept of a coherent system, he identified three quantities that could be used as base units: *mass*, *length*, and *time*. Giorgi later identified the need for an electrical base unit, for which the unit of *electric current* was chosen for SI. Another three base units (for *temperature*, *amount of substance*, and *luminous intensity*) were added later. *The early metric systems* defined a unit

13 / 16 pt

The Space Launch System (*abbreviated as SLS*) is an American *super heavy-lift expendable launch vehicle* under development by NASA since 2011. As of March 2022, the first launch is scheduled for no earlier than June 2022, pending the success of a wet dress rehearsal test after the Axiom-1 Launch.<sup>[20]</sup> The SLS is a *Space Shuttle-derived* launch vehicle. The first stage of the rocket is powered by *one central core stage* and *two outboard solid rocket boosters*. All SLS Blocks share a common core stage design, *while they differ in their upper stages* and boosters.<sup>[37]</sup>

11 / 14 pt +3%

In October 2006, LCD Soundsystem released a composition entitled “45:33”, as part of Nike’s *Original Run* series. It was made available for download from iTunes. Despite its name, the track is actually *45 minutes and 58 seconds long* — the title is a reference to vinyl speeds (33 and 45 RPM) — and was claimed to “*reward and push at good intervals of a run*”. However, it was later revealed that this was not the case, but that Murphy merely wanted the opportunity to create a long piece of music, akin to *E2-E4* by Manuel Göttsching. LCD Soundsystem’s second studio album, *Sound of Silver*, was released on March 20, 2007, *to critical acclaim*. Praise included Mixmag

9.5 / 12 pt +6%

Legible forms

In addition to the negative consequences of sleep deprivation, sleep and the intertwined circadian system have been shown to have strong regulatory effects on immunological functions affecting *both innate and adaptive immunity*. First, during the early slow-wave-sleep stage, a sudden drop in blood levels of *cortisol*, *epinephrine*, and *norepinephrine* causes increased blood levels of the hormones *leptin*, *pituitary growth hormone*, and *prolactin*. These signals induce a pro-inflammatory state through the production of the pro-inflammatory cytokines *interleukin-1*, *interleukin-12*, *TNF-alpha* and *IFN-gamma*. These cytokines then

8 / 10 pt +10%

The first ever known *artificial feedback device* was a float valve, for maintaining water at a constant level, invented in 270 BC in Alexandria, Egypt. This device illustrated the principle of feedback: *a low water level opens the valve, the rising water then provides feedback into the system, closing the valve when the required level is reached*. This then reoccurs in a circular fashion as the water level fluctuates. *Centrifugal governors* were used to regulate the distance and pressure between millstones in windmills since the 17th century. In 1788, James Watt designed his first centrifugal governor *following a suggestion from his business partner Matthew Boulton*, for use in the steam engines of their production. Early steam engines employed a *purely reciprocating motion*, and were used for

7 / 9 pt +15%

Legible forms

A nunatak (from Inuit *nunataq*) is the summit or ridge of a mountain that protrudes from an ice field or glacier that otherwise covers most of the mountain or ridge. They are also called *glacial islands*.<sup>[2]</sup> Examples are natural pyramidal peaks. When rounded by glacial action, smaller rock promontories may be referred to as *rognons*. The word is of Greenlandic origin<sup>[5]</sup> and has been used in English since the 1870s. The term is typically used in *areas where a permanent ice sheet is present and the nunataks protrude above the sheet*.<sup>[6]</sup> Nunataks present readily identifiable landmark reference points in glaciers or ice caps and are often named. While some nunataks are isolated, sometimes they form *dense clusters*, such as *Queen Louise Land* in Greenland.<sup>[7]</sup> Nunataks are generally *angular and jagged*, which hampers the formation of glacial



16 / 20 pt

The *Interim Cryogenic Propulsion Stage* (ICPS) is planned to fly on Artemis 1, 2, and 3 as the upper stage of *Space Launch System Block 1*. It is a stretched and human-rated Delta IV 5m (16 ft) *Delta Cryogenic Second Stage* powered by a single RL10 engine. The first ICPS will use the RL10B-2 variant, while the second and third ICPS will use the RL10C-2 variant. Block 1 is intended to be capable of lifting 95t (*93 long tons; 105 short tons*) to low Earth orbit (LEO) in this configuration, including the weight of the ICPS as part of the payload. The *Exploration Upper Stage* (EUS) is planned to fly on Artemis 4. The EUS will complete the SLS ascent

13 / 16 pt

Single-story *g*

Most NASA systems are *sufficiently complex that their components are sub-systems*, which must function in a coordinated way for the system to accomplish its goals. From the point of view of systems engineering, each subsystem is a system in its own right — that is, *policies, requirements, objectives, and which costs are relevant* are established at the next level up in the hierarchy. *Spacecraft systems* often have such subsystems as *propulsion, attitude control, telecommunications, and power*. In a large project, the subsystems are likely to be called

11 / 14 pt +3%

Legible forms

Biofouling occurs because water is a favorable environment for many life forms. *Flow characteristics of recirculating cooling water systems encourage colonization by sessile organisms* to use the circulating supply of food, oxygen and nutrients. Temperatures may become high enough to support thermophilic populations. *Biofouling of heat exchange surfaces can reduce heat transfer rates of the cooling system*; and biofouling of cooling towers can alter flow distribution to reduce evaporative cooling rates. Biofouling may also create *differential oxygen concentrations*, increasing corrosion rates. OTC and *open recirculating systems* are

9.5 / 12 pt +6%

Oldstyle figures

One of the first known instances in which spatial analysis was used came from the field of epidemiology in the *“Rapport sur la marche et les effets du choléra dans Paris et le département de la Seine”* (1832). French geographer and cartographer, Charles Picquet created a map outlining the forty-eight Districts in Paris, using halftone color gradients, to provide a visual representation for the *number of reported deaths due to cholera per 1,000 inhabitants*. In 1854, John Snow, an epidemiologist and physician, was able to determine the source of a cholera outbreak in London *through the use of spatial analysis*. After

8 / 10 pt +10%

Double-story italic *a, g*

The player can upgrade their skills by using *“cyber-modules”* given as rewards for completing objectives, such as searching the ship, and then spend them at devices called *“cyber-upgrade units”* to obtain enhanced skills. *Operating System (O/S) units* allow one-time character upgrades to be made (e.g. permanent health enhancement). An in-game currency called *“nanites”* may be spent on items at vending machines, including ammunition supplies and health packs. *“Quantum Bio-Reconstruction Machines”* can be activated and reconstitute the player for 10 nanites if they die inside the area in which the machine resides. Otherwise, the game ends and *progress must be resumed from a save point*. The player can hack devices, such as keypads to open *alternate areas* and vending

7 / 9 pt +15%

By the late 1970s two public domain GIS systems (MOSS and GRASS GIS) were in development, and by the early 1980s, M&S Computing (later Intergraph) along with Bentley Systems Incorporated for the CAD platform, *Environmental Systems Research Institute (ESRI)*, *CARIS (Computer Aided Resource Information System)*, and *ERDAS (Earth Resource Data Analysis System)* emerged as commercial vendors of GIS software, successfully incorporating many of the CGIS features, combining the first generation approach to *separation of spatial and attribute information* with a second generation approach to *organizing attribute data into database structures*. In 1986, *Mapping Display and Analysis System (MIDAS)*, the first desktop GIS product was released for the DOS operating system. This was renamed in 1990 to MapInfo for



16 / 20 pt

Saturn (*9.5 AU [1.42 billion km; 880 million mi] from the Sun*), distinguished by its extensive ring system, has several similarities to Jupiter, such as its atmospheric composition and magnetosphere. Although Saturn has 60% of Jupiter's volume, it is *less than a third as massive*, at 95 Earth masses. Saturn is the only planet of the Solar System that is *less dense than water* — about 30% less.<sup>[36]</sup> *The rings of Saturn* are made up of small ice and rock particles.<sup>[134]</sup> Saturn has *83 confirmed satellites* composed largely of ice. Two of these, *Titan and Enceladus*, show signs of geological activity; they, as well as

13 / 16 pt

1–127. *Opening of the OXIDIZER VALVES* permits oxidizer to flow to the combustion zone of the thrust chamber and also mechanically opens the sequence valves. When the *SEQUENCE VALVES* open, control fluid is directed to the *opening port of the gas generator CONTROL VALVE*. Opening of the gas generator control valve admits propellants to the gas generator *COMBUSTOR* where the propellants are ignited by the *gas generator igniters*. The resultant *fuel-rich hot gases* are directed *through the TURBINE* and the *thrust chamber EXHAUST MANIFOLD* to the

11 / 14 pt +3%

Frutiger (with Howard 'Bud' Kettler) adapted Univers for the *IBM Selectric Composer* in the 1960s. This was an ultra-premium electric 'golfball' typewriter system, intended to be used for producing *high-quality office documents* or copy to be photographically enlarged for small-scale printing projects. Unlike most typewriters, the Composer produced *proportional type, rather than monospaced letters*. Ultimately the system proved a transitional product, as *it was displaced by cheaper phototypesetting*, and then in the 1980s *by word processors and general-purpose computers*. The release was somewhat compromised due having to be

9.5 / 12 pt +6%

The latter have orbits whose periods are in a *simple ratio* to that of Neptune: for example, going around the Sun *twice* for every *three times* that Neptune does, or *once* for every *two*. The classical belt consists of objects having no resonance with Neptune, and extends from roughly 39.4 to 47.7 AU (5.89 to 7.14 billion km; 3.66 to 4.43 billion mi). *Members of the classical Kuiper belt are sometimes called "cubewanos"*, after the first of their kind to be discovered, 1992 QB<sub>1</sub>; they are still in near primordial, low-eccentricity orbits. *The dwarf planet Pluto* (with an average orbit of 39 AU [5.8 billion

8 / 10 pt +10%

WPS represents objects such as *disks, folders, files, program objects, and printers* using the *System Object Model (SOM)*, which allows code to be shared among applications, possibly written in different programming languages. A distributed version called DSOM allowed objects on different computers to communicate. DSOM is based on CORBA. The object oriented aspect of SOM is similar to, and a direct competitor to, Microsoft's *Component Object Model*, though it is implemented in a radically different manner; for instance, one of the most notable differences between SOM and COM is SOM's support for inheritance (one of the most fundamental concepts of OO programming) — COM does not have such support. SOM and DSOM are no longer being

7 / 9 pt +15%

The engine features a *two-piece thrust chamber* that is tubular-walled and *regeneratively cooled to the 10:1 expansion ratio plane*, and double-walled and *turbine gas cooled to the 16:1 expansion ratio plane*; a thrust chamber mounted turbopump that has two centrifugal pumps spline-connected on a single shaft driven by a two-stage, direct-driven turbine; one-piece rigid propellant ducts that are used in pairs to direct the fuel and oxidizer to the thrust chamber; and a *hypergolic fluid cartridge that is used for thrust chamber ignition*. The engine is within an envelope 12 feet in diameter and 16 feet long and weighs approximately 18,500 pounds dry. *Thrust vector changes* are achieved by gimbaling the entire engine. The gimbal block is located on the *thrust chamber dome*, and actuator attach points are provided



16 / 20 pt

***Fast inverse square root***, sometimes referred to as ***Fast InvSqrt()*** or by the hexadecimal constant ***0x5F3759DF***, is an algorithm that estimates the reciprocal (or multiplicative inverse) of the square root of a 32-bit floating-point number  $x$  in ***IEEE 754 floating-point format***. This operation is used in digital signal processing to normalize a vector, such as ***scaling it to length 1***. For example, computer graphics programs use inverse square roots to ***compute angles of incidence*** and reflection for lighting and shading. Predated by similar video game algorithms, ***this one is best known for its implementation in 1999***

13 / 16 pt

***The Braer Storm*** was the most intense extratropical cyclone ever recorded over the northern Atlantic Ocean. ***Developing as a weak frontal wave*** on 8 January 1993, the system moved rapidly northeast. The combination of the ***absorption of a second low-pressure area*** to its southeast, a ***stronger than normal sea surface temperature differential*** along its path, and the presence of a ***strong jet stream aloft*** led to a rapid strengthening of the storm, with its central pressure falling to an estimated 914 hPa (***914.0 mb; 26.99 inHg***) on 10 January. Its

11 / 14 pt +3%

***As in other computer systems***, RAM can be subdivided into relatively faster but more expensive ***static RAM (SRAM)*** and the slower but cheaper ***dynamic RAM (DRAM)***. When an SoC has a ***cache hierarchy***, SRAM will usually be used to implement processor registers and cores' built-in caches ***whereas DRAM will be used for main memory***. "Main memory" may be specific to a single processor (which can be multi-core) ***when the SoC has multiple processors***; in this case it is ***distributed memory*** and must be sent via ***intermodule communication on-chip*** to be accessed by a different processor. For further discussion of multi-

9.5 / 12 pt +6%

***The Physical Impossibility of Death in the Mind of Someone Living*** is an artwork created in 1991 by Damien Hirst, an English artist and a leading member of the "Young British Artists" (or YBA). It consists of a ***preserved tiger shark submerged in formaldehyde*** in a glass-panel display case. It was originally commissioned in 1991 by Charles Saatchi, ***who sold it in 2004 to Steven A. Cohen*** for an undisclosed amount, widely reported to have been at least \$8 million. However, the title of Don Thompson's book, ***The \$12 Million Stuffed Shark: The Curious Economics of Contemporary Art***,

8 / 10 pt +10%

Found in South Korea, ***it was formally described as a new species in 2014*** by lichenologists André Aptroot and Kwang-Hee Moon. ***The type specimens were collected by the first author from Mabok-san mountain*** (Goheung County, South Jeolla Province) at altitudes between 200 and 500 m (660 and 1,640 ft); there, the ***lichen was overgrowing mosses*** that were growing on siliceous rock. It has a thin (less than 0.1 mm thick) mottled ***greyish and olive green thallus*** covering areas of up to about 15 cm (6 in). The thallus lacks a cortex; rather, it comprises ***small, irregularly shaped areoles*** on a somewhat gelatinous crust. The ***photobiont partner*** of the lichen is a myrmecoid green alga, which measures 2–4  $\mu\text{m}$  in diameter. ***Ascospores*** of the

7 / 9 pt +15%

***The history of the RS-25*** traces back to the 1960s, when NASA's ***Marshall Space Flight Center*** and ***Rocketdyne*** were conducting a series of studies on high-pressure engines, ***developed from the successful J-2 engine*** used on the S-II and S-IVB upper stages of the Saturn V rocket during the Apollo program. The studies were conducted under a program to ***upgrade the Saturn V engines***, which produced a design for a 350,000 lbf (1,600 kN) upper-stage engine known as the HG-3. As funding levels for Apollo wound down the HG-3 was cancelled as well as the upgraded F-1 engines already being tested. It was the design for the HG-3 that would form the basis for the RS-25. Meanwhile, in 1967, the US Air Force funded a study into ***advanced rocket propulsion systems*** for use during



**System 7.1.2 is the first version of the *Macintosh System Software* to support Apple's new *PowerPC-based computers*. 68k applications that had not yet been updated to run natively on these systems were emulated transparently (*without the user having to intervene*) by a built-in 68k processor emulator. *Fat binaries*, which contained the code necessary to run natively on both *PowerPC and 68k systems*, became common during this time. This process was similar to the distribution of universal binaries during the *Mac transition to Intel processors in 2006*, as well as the *Mac transition***

**The *Sumerian archaic cuneiform script* closely followed by the *Egyptian hieroglyphs* are generally considered the earliest writing systems, both emerging out of their ancestral proto-literate symbol systems *from 3400 to 3200 BC*, with earliest coherent texts from about 2600 BC. *It is generally agreed* that the historically earlier Sumerian writing was an independent invention; *however, it is debated whether* Egyptian writing was developed completely independently of Sumerian, or was a case of *cultural diffusion*.**

***Jellyfish, comb jellies*, and related animals have *diffuse nerve nets* rather than a *central nervous system*. In most jellyfish the nerve net is spread more or less evenly across the body; in comb jellies it is concentrated near the mouth. *The nerve nets consist of sensory neurons*, which pick up chemical, tactile, and visual signals; *motor neurons*, which can activate contractions of the body wall; and *intermediate neurons*, which detect *patterns of activity* in the sensory neurons and, in response, send signals to *groups of motor neurons*. In some cases, groups of intermediate neurons are *clustered into***

**As of March 2023, a total of 7,124 737NG aircraft had been ordered, of which 7,101 had been delivered, with remaining orders for two -800, and 21 -800A variants. The most-ordered variant was the 737-800, with 4,991 commercial, 191 military, and 23 corporate, or a total of 5,205 aircraft. Boeing stopped assembling commercial 737NGs in 2019 and made the final deliveries in January 2020. The 737NG is superseded by the fourth generation 737 MAX, introduced in 2017. The first NG to roll out was a 737-700, on December 8, 1996. This aircraft, the 2,843rd**

**FIGURE 5 (foldout, next page) details the resulting *management and major systems engineering products* and *control gates* that characterize the phases in NMI 7120.4 and NHB 7120.5. Sections 3.1 to 3.6 contain narrative descriptions of the *purposes, major activities, products, and control gates* of the NASA project life cycle phases. Section 3.7 provides a more concentrated discussion of the *role of systems engineering* in the process. Section 3.8 describes the NASA budget cycle within which program/project managers and system engineers must operate. *The purpose of this activity*, which is usually performed more or less continually by "Advanced Projects" groups, is to *uncover, invent, create, concoct and/or***

***Configuration verification* is the process of verifying that resulting products (e.g., hardware and software items) conform to the *intentions of the designers* and to the *standards established by preceding approved baselines*, and that baseline documentation is *current and accurate*. Configuration verification is accomplished by two types of control gate activity: *audits and technical reviews*. (See Section 4.8.4 for additional information on two important examples: the *Physical Configuration Audit* and the *Design Certification Review*.) Each of these serves to review and challenge the data presented for conformance to the previously approved baseline. *Configuration accounting* (sometimes called *configuration status accounting*) is the task of maintaining,**





Uppercase **ABCDEFGHIJKLMNOPQRSTUVWXYZ**

Lowercase **abcdefghijklmnopqrstuvwxyz**

Small Caps **ABCDEFGHIJKLMNOPQRSTUVWXYZ**

Proportional Figures **0123456789**

Tabular Figures **0123456789 €\***

Oldstyle Figures **0123456789**

Tabular Oldstyle Figures **0123456789 €\***

Small Cap Figures **0123456789**

Ordinals **ao**

Numerators **H 0123456789**

Denominators **H 0123456789**

Superscript **H 0123456789.,;:---()[]+ -=**

Subscript **H 0123456789**

Punctuation **.,:;...!|?¿·•\*#/\(){}[]- - \_ " ' „ « » < >**

Symbols & Maths **@&¶§©®™°'""'''|¡†‡ℓ∈Nº+ - × ÷ = ≠ > < ≥ ≤ ± ≈ ¬ ~ ^ ∅ ∞ ∫ Ω Δ Π Σ √ ∂ μ % ‰ ◊**

Currency **¢ ₣ \$ € ₣ £ ¥**

Arrows **↑ ↗ → ↘ ↓ ↙ ← ↖ ↔ ↕**

Shapes **♥ ○ ◇ □ △ ▷ ▽ ◁**

Filled Shapes **♥ ● ◆ ■ ▲ ▶ ▽ ◀**

Circled Numbers **① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨**

Filled Circled Numbers **① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨**

Diacritics **ˆ ˘ ˙ ˚ ˇ ˛ ˜ ˝ ˞ ˟ ˠ ˡ ˢ ˣ ˤ ˥ ˦ ˧ ˨ ˩ ˪ ˫ ˬ ˭ ˮ ˯ ˰ ˱ ˲ ˳ ˴ ˵ ˶ ˷ ˸ ˹ ˺ ˻ ˼ ˽ ˾ ˿ ˿**

\* Tabular alternate euro sign. Other currency symbols are tabular by default.





ss01\*  
Single-story a

Yucatán

Yucatán

ss02\*  
Single-story g

Images

Images

ss11†  
Double-story a

*Yucatán**Yucatán*

ss12†  
Double-story g

*Images**Images*

ss03  
Legible Forms

Isolator

Isolator

ss04  
Circled Numbers

Metro 4

Metro ④

ss05  
Black Circled Numbers

Metro 5

Metro ⑤

frac  
Arbitrary Fractions

528/491

528/491

loc1  
Localised Forms (*Romanian &  
Moldavian; Catalan*)

Șț L·L

Șț L·L

onum  
Oldstyle Figures

01.28.49

01.28.49

ordn  
Ordinals

1a 1o

1ª 1º

tnum  
Tabular Figures

€10.95

€10.95

smcp  
Small Caps

Design

DESIGN

onum + tnum  
Tabular Oldstyle Figures

€5.81

€5.81

c2sc  
Caps to Small Caps

NASA

NASA

zero  
Slashed Zero

Web 1.0

Web 1.0

### Using OpenType Features in CSS

The four-character tags (ss01, ordn, etc.) listed next to each feature above can be used with the `font-feature-settings` CSS property to toggle the relevant feature. For instance,

```
font-feature-settings: "ss02";
```

will enable the *single-story g* stylistic set.

case  
Case-Sensitive Forms

M1 (@N)

M1 (@N)

subs, sups  
Subscript, superscript

H2O[5]

H<sub>2</sub>O<sup>[5]</sup>

\* Romans & variable only.

† Italics & variable only.



Showing 120 of a total 311 supported languages. You can view the complete list at [mass-driver.com/typeface/md-system](https://mass-driver.com/typeface/md-system).

Afrikaans	Irish
Albanian	Italian
Asu	Javanese
Azerbaijani	Jju
Basque	Jola-Fonyi
Bemba	Kabuverdianu
Bena	Kalaallisut
Bosnian	Kalenjin
Catalan	Kamba
Cebuano	Kikuyu
Chiga	Kinyarwanda
Cognian	Kurdish
Cornish	Latvian
Corsican	Lithuanian
Croatian	Lojban
Czech	Low German
Danish	Lower Sorbian
Dutch	Luo
Embu	Luxembourgish
English	Luyia
Estonian	Machame
Faroese	Makhuwa-Meetto
Filipino	Makonde
Finnish	Malagasy
French	Malay
Friulian	Maltese
Galician	Manx
Ganda	Māori
German	Meru
Gusii	Morisyen
Hungarian	Nigerian Pidgin
Icelandic	North Ndebele
Ido	Northern Sami
Igbo	Northern Sotho
Inari Sami	Norwegian Bokmål
Indonesian	Norwegian Nynorsk
Interlingua	Nyanja

Nyankole
Occitan
Oromo
Polish
Portuguese
Romanian
Romansh
Rombo
Rundi
Rwa
Samburu
Sango
Sangu
Sardinian
Scottish Gaelic
Sena
Shambala
Shona
Slovak
Slovenian
Soga
Somali
South Ndebele
Southern Sotho
Spanish
Sundanese
Swahili
Swati
Swedish
Swiss German
Taita
Taroko
Teso
Tsonga
Tswana
Turkish
Turkmen
Upper Sorbian
Vunjo
Walloon

Walser
Welsh
Western Frisian
Wolof
Xhosa
Zulu

For languages with multiple scripts or writing systems, only the Latin is supported (unless noted otherwise).

While we take care to ensure our language support is as complete and accurate possible, we can't guarantee that every regional or language-specific variation of a glyph is included. Please [get in touch](#) if you need a custom version to better fit your language.



**Styles / Instances**

Style	wdth <sup>1</sup>	wght <sup>2</sup>	slnt <sup>3</sup>	OS/2 width/weight class
Condensed Regular	50	400	0	3 / 400
Condensed Italic	50	400	-10	3 / 400
Condensed Medium	50	500	0	3 / 500
Condensed Medium Italic	50	500	-10	3 / 500
Condensed Semibold	50	600	0	3 / 600
Condensed Semibold Italic	50	600	-10	3 / 600
Condensed Bold	50	700	0	3 / 700
Condensed Bold Italic	50	700	-10	3 / 700
Condensed Black	50	800	0	3 / 800
Condensed Black Italic	50	800	-10	3 / 800
Narrow Regular	75	400	0	4 / 400
Narrow Italic	75	400	-10	4 / 400
Narrow Medium	75	500	0	4 / 500
Narrow Medium Italic	75	500	-10	4 / 500
Narrow Semibold	75	600	0	4 / 600
Narrow Semibold Italic	75	600	-10	4 / 600
Narrow Bold	75	700	0	4 / 700
Narrow Bold Italic	75	700	-10	4 / 700
Narrow Black	75	800	0	4 / 800
Narrow Black Italic	75	800	-10	4 / 800
Regular	100	400	0	5 / 400
Italic	100	400	-10	5 / 400
Medium	100	500	0	5 / 500
Medium Italic	100	500	-10	5 / 500
Semibold	100	600	0	5 / 600
Semibold Italic	100	600	-10	5 / 600
Bold	100	700	0	5 / 700
Bold Italic	100	700	-10	5 / 700
Black	100	800	0	5 / 800
Black Italic	100	800	-10	5 / 800

<sup>1</sup> Equivalent to the CSS font-stretch attribute.

<sup>2</sup> Equivalent to the CSS font-weight attribute.

<sup>3</sup> Example usage: `.italic { font-variation-settings: "slnt" -5; }`

**MD System Variable** (Available on request)

Axis	Min	Max
<b>Width</b> (wdth)	50	100
<b>Weight</b> (wght)	400	800
<b>Slant</b> (slnt)	0	-10

**Formats / Sizes**

Style	Filesize	Contour Type
OTF	139–149 KB	Cubic (CFF)
WOFF2	44–50 KB	Cubic (CFF)
WOFF	49–55 KB	Cubic (CFF)
Variable TTF	306 KB	Quadratic (TTF)
Variable WOFF2	121 KB	Quadratic (TTF)
Variable WOFF	144 KB	Quadratic (TTF)

**General Information**

Credits	Designed by Rutherford Craze & Luke Charsley
	With thanks to Frank Grießhammer and Timothy Donaldson for their feedback during the design process.
File Version	2.012
First Release	Feb 2020
Latest Update	May 2023
Licensing	MD System may be used only as permitted by the terms of the Mass-Driver End User License Agreement (EULA). <a href="https://mass-driver.com/licensing">https://mass-driver.com/licensing</a>



# MD System Mono

MD System Mono

---

Regular

Medium

Semibold

Bold

Black

*Italic*

*Medium Italic*

*Semibold Italic*

*Bold Italic*

*Black Italic*



96pt

-20%

Area-47 East

72pt

-14%

*NORTH SEA VESSEL*  
Storms Forecast

40pt

-10%

“LOS ANGELES. NOV, 2019”  
*Information Transference*  
24-Hour Book Store (8)



*International*

NEAR-FUTURE TECH?  
*Distinct 395 Sort*

*METROPOLITAN TRANSIT:*  
Line ⑤ West & Line ⑥ East  
*Museum Street Exits ↗*



96pt

-20%

**DESIGN STUDIO**

72pt

-14%

***PRACTICAL FORMS***  
**Mid-Century Modern**

40pt

Oldstyle figures

-10%

**‘RISOGRAPH PRINT EFFECT’**  
***2785 Typographic Layouts***  
**Industrial Application**



96pt

-20%

***Authentic UI***

72pt

-14%

**UTILITARIAN FEEL**  
***Typewriter Fonts***

40pt

Double-story g

-10%

***NETWORK 280 TECHNOLOGY***  
**Multi-Port Switch Adapter**  
***Programming Languages***

**310 HYPERTEXT**

***ACTIVE PROTOCOL 9***  
**“Digital Style!”**

**2 $\frac{1}{2}$  CUPS WHITE RICE FLOUR**  
***Sharp Left Turn Ahead!***  
**Departures Lounges: Q56-60**



16 / 20 pt

Oldstyle figures

In 1960, the 11th CGPM synthesised the results of the 12-year study into a set of 16 resolutions. The system was named the *International System of Units*, abbreviated SI from the French name, *Le Système International d'Unités*. When Maxwell first introduced the concept of a coherent system, he identified three quantities that could be used as

13 / 16 pt

Non-slashed Zero

The Space Launch System (*abbreviated as SLS*) is an American *super heavy-lift expendable launch vehicle* under development by NASA since 2010. As of March 2020, the first launch is scheduled for no earlier than June 2020, pending the success of a wet dress rehearsal test after the Axiom-0 Launch.<sup>[20]</sup> The SLS is a *Space Shuttle-*

11 / 14 pt +3%

In October 2006, LCD Soundsystem released a composition entitled “45:33”, as part of Nike’s *Original Run* series. It was made available for download from iTunes. Despite its name, the track is actually *45 minutes and 58 seconds long* – the title is a reference to vinyl speeds (33 and 45 RPM) – and was claimed to “*reward and push at good intervals of a run*”. However, it

9.5 / 12 pt +6%

In addition to the negative consequences of sleep deprivation, sleep and the intertwined circadian system have been shown to have strong regulatory effects on immunological functions affecting *both innate and adaptive immunity*. First, during the early slow-wave-sleep stage, a sudden drop in blood levels of *cortisol, epinephrine, and nor-*

8 / 10 pt +10%

The first ever known *artificial feedback device* was a float valve, for maintaining water at a constant level, invented in 270 BC in Alexandria, Egypt. This device illustrated the principle of feedback: *a low water level opens the valve, the rising water then provides feedback into the system, closing the valve when the required level is reached*. This then reoccurs in a circular fashion as the water level fluctuates. *Centrifugal*

Legible forms

7 / 9 pt +15%

A nunatak (from Inuit *nunataq*) is the summit or ridge of a mountain that protrudes from an ice field or glacier that otherwise covers most of the mountain or ridge. They are also called *glacial islands*.<sup>[2]</sup> Examples are natural pyramidal peaks. When rounded by glacial action, smaller rock promontories may be referred to as *rognons*. The word is of Greenlandic origin<sup>[5]</sup> and has been used in English since the 1870s. The term is typically used in *areas where a permanent*



16 / 20 pt

The *Interim Cryogenic Propulsion Stage* (ICPS) is planned to fly on Artemis 1, 2, and 3 as the upper stage of *Space Launch System Block 1*. It is a stretched and human-rated Delta IV 5m (16 ft) *Delta Cryogenic Second Stage* powered by a single RL10 engine. The first ICPS will use the RL10B-2 variant, while the second and third ICPS will use the RL10C-2

13 / 16 pt

Single-story g

Most NASA systems are *sufficiently complex that their components are subsystems*, which must function in a coordinated way for the system to accomplish its goals. From the point of view of systems engineering, each subsystem is a system in its own right – that is, *policies, requirements, objectives, and which costs are*

11 / 14 pt +3%

Legible forms

Biofouling occurs because water is a favorable environment for many life forms. *Flow characteristics of recirculating cooling water systems encourage colonization by sessile organisms* to use the circulating supply of food, oxygen and nutrients. Temperatures may become high enough to support thermophilic populations. *Biofouling of heat exchange surfaces can reduce*

9.5 / 12 pt +6%

Oldstyle figures

One of the first known instances in which spatial analysis was used came from the field of epidemiology in the *“Rapport sur la marche et les effets du choléra dans Paris et le département de la Seine”* (1832). French geographer and cartographer, Charles Picquet created a map outlining the forty-eight Districts in Paris, using halftone color

8 / 10 pt +10%

Double-story italic a, g

The player can upgrade their skills by using *“cyber-modules”* given as rewards for completing objectives, such as searching the ship, and then spend them at devices called *“cyber-upgrade units”* to obtain enhanced skills. *Operating System (O/S) units* allow one-time character upgrades to be made (e.g. permanent health enhancement). An in-game currency called *“nanites”* may be spent on items at vending machines, including ammunition supplies

7 / 9 pt +15%

By the late 1970s two public domain GIS systems (MOSS and GRASS GIS) were in development, and by the early 1980s, M&S Computing (later Intergraph) along with Bentley Systems Incorporated for the CAD platform, *Environmental Systems Research Institute (ESRI)*, *CARIS (Computer Aided Resource Information System)*, and *ERDAS (Earth Resource Data Analysis System)* emerged as commercial vendors of GIS software, successfully incorporating many of the CGIS features, combining the first



16 / 20 pt

Single-story *a, g*

Saturn (*9.5 AU [1.42 billion km; 880 million mi]* from the Sun), distinguished by its extensive ring system, has several similarities to Jupiter, such as its atmospheric composition and magnetosphere. Although Saturn has 60% of Jupiter's volume, it is *less than a third as massive*, at 95 Earth masses. Saturn is the only planet of the Solar System that

13 / 16 pt

Small Caps

1-127. *Opening of the OXIDIZER VALVES* permits oxidizer to flow to the combustion zone of the thrust chamber and also mechanically opens the sequence valves. When the *SEQUENCE VALVES* open, control fluid is directed to the *opening port of the gas generator CONTROL VALVE*. Opening of the gas generator control valve admits

11 / 14 pt +3%

Frutiger (with Howard 'Bud' Kettler) adapted Univers for the *IBM Selectric Composer* in the 1960s. This was an ultra-premium electric 'golfball' typewriter system, intended to be used for producing *high-quality office documents* or copy to be photographically enlarged for small-scale printing projects. Unlike most typewriters, the Composer produced *proportional*

9.5 / 12 pt +6%

The latter have orbits whose periods are in a *simple ratio* to that of Neptune: for example, going around the Sun *twice* for every *three times* that Neptune does, or *once* for every *two*. The classical belt consists of objects having no resonance with Neptune, and extends from roughly 39.4 to 47.7 AU (5.89 to 7.14 billion km; 3.66 to 4.43 billion mi).

8 / 10 pt +10%

WPS represents objects such as *disks, folders, files, program objects*, and *printers* using the *System Object Model (SOM)*, which allows code to be shared among applications, possibly written in different programming languages. A distributed version called DSOM allowed objects on different computers to communicate. DSOM is based on CORBA. The object oriented aspect of SOM is similar to, and a direct competitor to,

7 / 9 pt +15%

The engine features a *two-piece thrust chamber* that is tubular-walled and *regeneratively cooled to the 10:1 expansion ratio plane*, and double-walled and *turbine gas cooled to the 16:1 expansion ratio plane*; a thrust chamber mounted turbopump that has two centrifugal pumps spline-connected on a single shaft driven by a two-stage, direct-driven turbine; one-piece rigid propellant ducts that are used in pairs to direct the fuel and oxidizer to the



16 / 20 pt

***Fast inverse square root***, sometimes referred to as ***Fast InvSqrt()*** or by the hexadecimal constant ***0x5F3759DF***, is an algorithm that estimates the reciprocal (or multiplicative inverse) of the square root of a 32-bit floating-point number  $x$  in ***IEEE 754 floating-point format***. This operation is used in digital signal processing to normalize a vector,

13 / 16 pt

***The Braer Storm*** was the most intense extra-tropical cyclone ever recorded over the northern Atlantic Ocean. ***Developing as a weak frontal wave*** on 8 January 1993, the system moved rapidly northeast. The combination of the ***absorption of a second low-pressure area*** to its southeast, a ***stronger than normal sea surface***

11 / 14 pt +3%

***As in other computer systems***, RAM can be subdivided into relatively faster but more expensive ***static RAM (SRAM)*** and the slower but cheaper ***dynamic RAM (DRAM)***. When an SoC has a ***cache hierarchy***, SRAM will usually be used to implement processor registers and cores' built-in caches ***whereas DRAM will be used for main memory***. "Main memory" may be specific to a

9.5 / 12 pt +6%

***The Physical Impossibility of Death in the Mind of Someone Living*** is an artwork created in 1991 by Damien Hirst, an English artist and a leading member of the ***"Young British Artists"*** (or YBA). It consists of a ***preserved tiger shark submerged in formaldehyde*** in a glass-panel display case. It was originally commissioned in 1991 by Charles Saatchi,

8 / 10 pt +10%

Found in South Korea, ***it was formally described as a new species in 2014*** by lichenologists André Aptroot and Kwang-Hee Moon. ***The type specimens were collected by the first author from Mabok-san mountain (Goheung County, South Jeolla Province) at altitudes between 200 and 500 m (660 and 1,640 ft); there, the lichen was overgrowing mosses that were growing on siliceous rock. It has a thin (less than 0.1 mm thick) mottled greyish and olive***

7 / 9 pt +15%

***The history of the RS-25 traces back to the 1960s***, when NASA's ***Marshall Space Flight Center*** and ***Rocketdyne*** were conducting a series of studies on high-pressure engines, ***developed from the successful J-2 engine*** used on the S-II and S-IVB upper stages of the Saturn V rocket during the Apollo program. The studies were conducted under a program to ***upgrade the Saturn V engines***, which produced a design for a ***350,000 lbf (1,600 kN) upper-stage engine*** known as





16 / 20 pt

Legible Forms

**System 7.1.2 is the first version of the *Macintosh System Software* to support Apple's new *PowerPC-based computers*. 68k applications that had not yet been updated to run natively on these systems were emulated transparently (*without the user having to intervene*) by a built-in 68k processor emulator. *Fat binaries*, which contained the code necessary to run**

13 / 16 pt

Double-story italic *a, g*

**The *Sumerian archaic cuneiform script* closely followed by the *Egyptian hieroglyphs* are generally considered the earliest writing systems, both emerging out of their ancestral proto-literate symbol systems *from 3400 to 3200 BC*, with earliest coherent texts from about *2600 BC*. *It is generally agreed* that the**

11 / 14 pt +3%

***Jellyfish, comb jellies*, and related animals have *diffuse nerve nets* rather than a *central nervous system*. In most jellyfish the nerve net is spread more or less evenly across the body; in comb jellies it is concentrated near the mouth. *The nerve nets consist of sensory neurons*, which pick up chemical, tactile, and visual signals; *motor neurons*, which can**

9.5 / 12 pt +6%

Oldstyle figures

**As of March 2023, a total of *7,124 737NG* aircraft had been ordered, of which *7,101* had been delivered, with *remaining orders for two -800, and 21 -800A variants*. The most-ordered variant was the *737-800*, with *4,991* commercial, *191* military, and *23* corporate, or a total of *5,205* aircraft. *Boeing stopped assembling commercial 737NGs* in 2019 and**

8 / 10 pt +10%

**FIGURE 5 (foldout, next page) details the resulting *management and major systems engineering products* and *control gates* that characterize the phases in *NMI 7120.4* and *NHB 7120.5*. Sections 3.1 to 3.6 contain narrative descriptions of the *purposes, major activities, products, and control gates* of the NASA project life cycle phases. Section 3.7 provides a more concentrated discussion of the *role of systems engineering* in the process.**

7 / 9 pt +15%

***Configuration verification* is the process of verifying that resulting products (e.g., hardware and software items) conform to the *intentions of the designers* and to the *standards established by preceding approved baselines*, and that baseline documentation is *current and accurate*. Configuration verification is accomplished by two types of control gate activity: *audits and technical reviews*. (See Section 4.8.4 for additional information on two important examples:**



Uppercase ABCDEFGHIJKLMNOPQRSTUVWXYZ

Lowercase abcdefghijklmnopqrstuvwxyz

Small Caps ABCDEFGHIJKLMNOPQRSTUVWXYZ

Figures 0123456789 Oldstyle Figures 0123456789

Small Cap Figures 0123456789 Ordinals a o

Numerators H 0 1 2 3 4 5 6 7 8 9 Denominators H 0 1 2 3 4 5 6 7 8 9

Superscript H 0 1 2 3 4 5 6 7 8 9 . , : ; - - - ( ) [ ] + - =

Subscript H 0 1 2 3 4 5 6 7 8 9

Punctuation . , : ; ... ! ; ? ; · • \* # / \ ( ) { } [ ] - - - \_ " ' , , " " ' ' « » < >

Symbols & Maths @ & ¶ § © ® ™ ° ' " "" | ; † ‡ ℓ e № + - × ÷ = ≠ > < ≥ ≤ ± ≈ ¬ ~ ^ ∅ ∞ ∫ Ω Δ Π Σ √ ∂ μ % ‰

Currency ₣ ₧ \$ € ₣ £ ¥ Arrows ↑ ↗ → ↘ ↓ ↙ ← ↖ ↔ ↕

Shapes ♥ ○ ◇ □ △ ▷ ▽ ◁ Filled Shapes ♥ ● ◆ ■ ▲ ▶ ▼ ◀

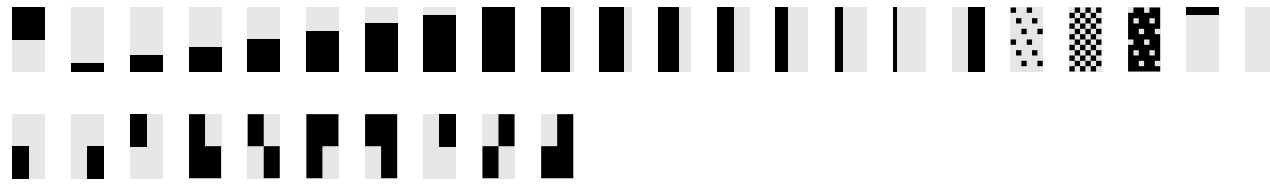
Circled Numbers ① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ Filled Circled Numbers ① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨

Diacritics ˆ ˘ ˙ ˚ ˇ ˛ ˜ ˝ ˞ ˟ ˠ ˡ ˢ ˣ ˤ ˥ ˦ ˧ ˨ ˩ ˪ ˫ ˬ ˭ ˮ ˯ ˰ ˱ ˲ ˳ ˴ ˵ ˶ ˷ ˸ ˹ ˺ ˻ ˼ ˽ ˾ ˿ ̀ ́ ̂ ̃ ̄ ̅ ̆ ̇ ̈ ̉ ̊ ̋ ̌ ̍ ̎ ̏ ̐ ̑ ̒ ̓ ̔ ̕ ̖ ̗ ̘ ̙ ̚ ̛ ̜ ̝ ̞ ̟ ̠ ̡ ̢ ̣ ̤ ̥ ̦ ̧ ̨ ̩ ̪ ̫ ̬ ̭ ̮ ̯ ̰ ̱ ̲ ̳ ̴ ̵ ̶ ̷ ̸ ̹ ̺ ̻ ̼ ̽ ̾ ̿ ̀ ́ ̂ ̃ ̄ ̅ ̆ ̇ ̈ ̉ ̊ ̋ ̌ ̍ ̎ ̏ ̐ ̑ ̒ ̓ ̔ ̕ ̖ ̗ ̘ ̙ ̚ ̛ ̜ ̝ ̞ ̟ ̠ ̡ ̢ ̣ ̤ ̥ ̦ ̧ ̨ ̩ ̪ ̫ ̬ ̭ ̮ ̯ ̰ ̱ ̲ ̳ ̴ ̵ ̶ ̷ ̸ ̹ ̺ ̻ ̼ ̽ ̾ ̿

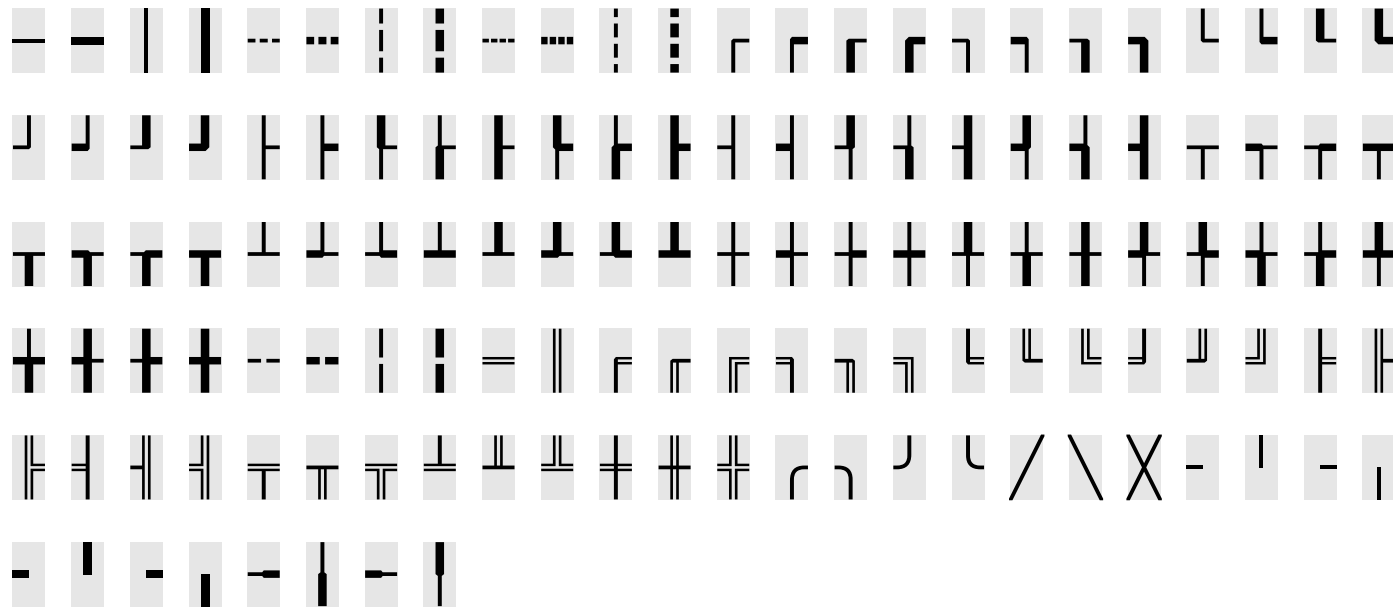




Block Elements



Box Drawing





ss01\*  
Single-story a

Catch Catch

ss02\*  
Single-story g

Image Image

ss11†  
Double-story a

*Catch* *Catch*

ss12†  
Double-story g

*Image* *Image*

ss03  
Legible Forms

Ido1s Ido1s

ss04  
Circled Numbers

Set 4 Set ④

ss05  
Black Circled Numbers

Set 5 Set 5

ss06  
Non-slashed Zero

V1.0 V①.①

loc1  
Localised Forms (*Romanian & Moldavian; Catalan*)

Şţ L·L Şţ L·L

frac  
Arbitrary Fractions

28/49 2<sup>8</sup>/4<sup>9</sup>

smcp  
Small Caps

Design DESIGN

ordn  
Ordinals

1a 1<sup>o</sup> 1<sup>a</sup> 1<sup>o</sup>

c2sc  
Caps to Small Caps

NASA NASA

onum  
Oldstyle Figures

28.49 28.49

\* Romans & variable only.

† Italics & variable only.

case  
Case-Sensitive Forms

(@N1) (@N1)

## Using OpenType Features in CSS

The four-character tags (ss01, ordn, etc.) listed next to each feature above can be used with the `font-feature-settings` CSS property to toggle the relevant feature. For instance, `font-feature-settings: "ss02";` will enable the *single-story g* stylistic set.

subs, sups  
Subscript, superscript

H20[5] H<sub>2</sub>O<sup>[5]</sup>



Showing 120 of a total 311 supported languages. You can view the complete list at [mass-driver.com/typeface/md-system](https://mass-driver.com/typeface/md-system).

Afrikaans	Irish	Nyankole	Walser
Albanian	Italian	Occitan	Welsh
Asu	Javanese	Oromo	Western Frisian
Azerbaijani	Jju	Polish	Wolof
Basque	Jola-Fonyi	Portuguese	Xhosa
Bemba	Kabuverdianu	Romanian	Zulu
Bena	Kalaallisut	Romansh	
Bosnian	Kalenjin	Rombo	
Catalan	Kamba	Rundi	
Cebuano	Kikuyu	Rwa	
Chiga	Kinyarwanda	Samburu	
Cognian	Kurdish	Sango	
Cornish	Latvian	Sangu	
Corsican	Lithuanian	Sardinian	
Croatian	Lojban	Scottish Gaelic	
Czech	Low German	Sena	
Danish	Lower Sorbian	Shambala	
Dutch	Luo	Shona	
Embu	Luxembourgish	Slovak	
English	Luyia	Slovenian	
Estonian	Machame	Soga	
Faroese	Makhuwa-Meetto	Somali	
Filipino	Makonde	South Ndebele	
Finnish	Malagasy	Southern Sotho	
French	Malay	Spanish	
Friulian	Maltese	Sundanese	
Galician	Manx	Swahili	
Ganda	Māori	Swati	
German	Meru	Swedish	
Gusii	Morisyen	Swiss German	
Hungarian	Nigerian Pidgin	Taita	
Icelandic	North Ndebele	Taroko	
Ido	Northern Sami	Teso	
Igbo	Northern Sotho	Tsonga	
Inari Sami	Norwegian Bokmål	Tswana	
Indonesian	Norwegian Nynorsk	Turkish	
Interlingua	Nyanja	Turkmen	
		Upper Sorbian	
		Vunjo	
		Walloon	

For languages with multiple scripts or writing systems, only the Latin is supported (unless noted otherwise).

While we take care to ensure our language support is as complete and accurate possible, we can't guarantee that every regional or language-specific variation of a glyph is included. Please [get in touch](#) if you need a custom version to better fit your language.



**Styles / Instances**

Style	wght <sup>1</sup>	slnt <sup>2</sup>	OS/2 width/weight class
Regular	400	0	5 / 400
Italic	400	-10	5 / 400
Medium	500	0	5 / 500
Medium Italic	500	-10	5 / 500
Semibold	600	0	5 / 600
Semibold Italic	600	-10	5 / 600
Bold	700	0	5 / 700
Bold Italic	700	-10	5 / 700
Black	800	0	5 / 800
Black Italic	800	-10	5 / 800

<sup>1</sup> Equivalent to the CSS font-weight attribute.

<sup>2</sup> Example usage: `.italic { font-variation-settings: "slnt" -5; }`

**MD System Mono Variable** (Available on request)

Axis	Min	Max
<b>Weight</b> (wght)	400	800
<b>Slant</b> (slnt)	0	-10

**Formats / Sizes**

Style	Filesize	Contour Type
OTF	103–110 KB	Cubic (CFF)
WOFF2	36–39 KB	Cubic (CFF)
WOFF	40–43 KB	Cubic (CFF)
Variable TTF	149 KB	Quadratic (TTF)
Variable WOFF2	63 KB	Quadratic (TTF)
Variable WOFF	77 KB	Quadratic (TTF)

**General Information**

Credits	Designed by Luke Charsley & Rutherford Craze.
File Version	2.012
First Release	May 2023
Licensing	MD System Mono may be used only as permitted by the terms of the Mass-Driver End User License Agreement (EULA). <a href="https://mass-driver.com/licensing">https://mass-driver.com/licensing</a>



# *mass-driver.com*

© Mass-Driver 2024. All rights reserved.

This specimen is intended for informational purposes only, and is not guaranteed to be free from errors (though we did our best).

Supporting text in this document is set in MD System.

Text sources: *NASA Systems Engineering Handbook* (1995 edition); *Rocketdyne F-1 Engine Familiarization Training Manual* (1967); Wikipedia.