

# Complementary Colours Atos

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## Introduction

### Accessible Colour Requirements

Defining colour schemes is a complex process and often has to meet with corporate style requirements, but it is also a legal requirement that colour schemes and combinations of colour support those users with disabilities.

### Accessibility Law in the UK

Accessibility – A legal requirement for all organisations – was legislated under the Disability Discrimination Act (DDA) 1995, and more recently under the Equality Act (EQA) 2010.

This legislation is intended to ensure that people with disabilities and special needs are not disadvantaged as a consequence of their condition.

All electronic information systems (including web services, desktop software, mobile apps, electronic documents and media) must be equally accessible to those with disabilities and special needs.

The use of colour (and the combinations of colour) is an important consideration in design. Around 8% of people suffer some degree of colour blindness. And many low-vision users need a minimum level of contrast for readability.

### Important

Under the Equality Act 2010, it is no longer acceptable under the law to wait until a complaint has been received and then to take remedial actions to resolve the complaint. Instead, organisations are required to behave proactively and ensure that accessibility requirements are met for each application, whether it is a legacy, new or updated application.

### What is WCAG?

In 1997 the World Wide Web Consortium (W3C) produced the first draft of the Web Accessibility Initiative (WAI), conceived specifically to ensure that users with disabilities could access information without hindrance or disadvantage.

In order to assist designers, developers and content creators Web Content Accessibility Guidelines (WCAG) were published in 1999, and have evolved progressively since this time. It is currently at version 2.0.

WCAG comprises 12 guidelines, organised to four principles:

- Perceivable
- Operable
- Understandable
- Robust

For each of the guidelines, success criteria are set at three priority levels:

- Level A
- Level AA
- Level AAA

You can find out more about W3C Accessibility, WCAG and other technical standards at:

<http://www.w3.org/standards/webdesign/accessibility>

## Relevant WCAG Guidelines

WCAG guidelines do not define the law or the legal requirements for accessibility, but the guidelines are accepted as a measure of accessibility and are often cited in legal cases.

The most relevant guideline for colour schemes is:

Guideline 1.4.3 contrast (Minimum)

This guideline specifies the minimum level of contrast for overlapping colours (specifically, text):

**Level AA** requires a contrast ratio of 4.5:1 for normal text and 3:1 for large text.

**Level AAA** requires a contrast ratio of 7:1 for normal text and 4.5:1 for large text.

Note that **large text** is defined as being at least 18pt regular or 14pt bold. The font size is deemed to be that when the content is delivered and does not include resizing that may be done by a user.

It is also worth mentioning a further WCAG guideline:

Guideline 1.4.1 Use of Colour

This states that colour must not be used as the only visual means of conveying information, indicating an action, prompting a response, or distinguishing a visual element.

## Font size and conversion

As a measure of font size, points and pixels are absolute units. There are 72 points in one inch. Just how many pixels there are in one inch depends on the operating system and graphics capability of the screen, yielding a measurement of pixels per inch (PPI)

Whereas Mac always faithfully followed the convention of 72ppi, Windows opted for 96ppi, meaning that the same font rendered at different visible heights on each platform. But more advanced screens on desktops and handheld devices can have up to 500ppi.

So the accessibility recommendation is to use relative measurements for font sizes, such as em units or percentages, rather than absolute sizes. This hands control to the browser and allows text to be more easily resized across multiple devices and platforms.

Points	Pixels	Ems	Percent	Sans Serif Example
6 pt	8 px	0.5 em	50 %	Sample text
7 pt	9 px	0.55 em	55 %	Sample text
7.5 pt	10 px	0.625 em	62.5 %	Sample text
8 pt	11 px	0.7 em	70 %	Sample text
9 pt	12 px	0.75 em	75 %	Sample text
10 pt	13 px	0.8 em	80 %	Sample text
10.5 pt	14 px	0.875 em	87.5 %	Sample text
11 pt	15 px	0.95 em	95 %	Sample text
12 pt	16 px	1 em	100 %	Sample text
13 pt	17 px	1.05 em	105 %	Sample text
13.5 pt	18 px	1.125 em	112.5 %	Sample text
14 pt	19 px	1.2 em	120 %	Sample text
14.5 pt	20 px	1.25 em	125 %	Sample text
15 pt	21 px	1.3 em	130 %	Sample text

Points	Pixels	Ems	Percent	Sans Serif Example
16 pt	22 px	1.4 em	140 %	Sample text
17 pt	23 px	1.45 em	145 %	Sample text
18 pt	24 px	1.5 em	150 %	Sample text
20 pt	26 px	1.6 em	160 %	Sample text
22 pt	29 px	1.8 em	180 %	Sample text
24 pt	32 px	2 em	200 %	Sample text
26 pt	35 px	2.2 em	220 %	Sample text
27 pt	36 px	2.25 em	225 %	Sample text
28 pt	37 px	2.3 em	230 %	Sample text
29 pt	38 px	2.35 em	235 %	Sample text
30 pt	40 px	2.45 em	245 %	Sample text
32 pt	42 px	2.55 em	255 %	Sample text
34 pt	45 px	2.75 em	275 %	Sample text
36 pt	48 px	3 em	300 %	Sample text

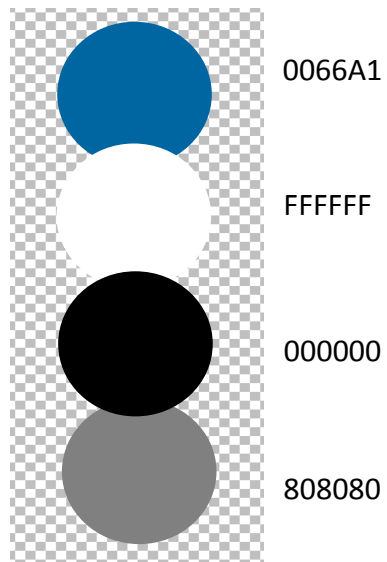
Browsers set the default font size to 16px (absolute), and then the <body> tag font size set to 1em, or 100% (relative). This then can be used as the basis for font design.

As detailed on the previous page, WCAG Guideline 1.4.3 mentions 18pt normal and 14pt bold text. From the conversion table to the right, it can be seen that these font sizes equate to 1.5em and 1.2em, respectively.

The conversion table can also be used as a general reference for font size conversion between units. Figures are approximate (as they rely on the OS, browser rendering and the font itself) although they may be considered as reliable.

## Colour Palette

The Atos colour palette consists of four primary colours, five secondary colours and five complementary colours. The palette is for web use and, by implication, printed matter. The design will therefore usually appear on a white page background.



**PRIMARY**



**SECONDARY**



**COMPLEMENTARY**

## Spectrum – Complete

The table shows all possible colour combinations with the new Atos colour palette.

Text is shown in the normal type (12pt) and large type (18pt).

BG/FG	0066A1		0089C4		00AFD8		00A59C		FF6319		9E9500		3F9C35		6639B7		A626AA		D71F85		000000		808080		898D8D		FFFFFF	
0066A1			ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC
0089C4	ABC	ABC			ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC
00AFD8	ABC	ABC	ABC	ABC			ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC
00A59C	ABC	ABC	ABC	ABC	ABC	ABC			ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC
FF6319	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC			ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC
9E9500	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC			ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC
3F9C35	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC			ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC
6639B7	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC			ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC
A626AA	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC			ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC
D71F85	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC			ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC
000000	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC			ABC	ABC	ABC	ABC	ABC	ABC
808080	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC			ABC	ABC	ABC	ABC
898D8D	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC			ABC	ABC	ABC
FFFFFF	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC				

## Spectrum - WCAG AA

The table below shows the palette spectrum filtered to WCAG AA accessibility requirements for foreground / background contrast.

BG/FG	0066a1		0089C4		00AFD8		00A59C		FF6319		9E9500		3F9C35		6639B7		A626AA		D71F85		000000		808080		898D8D		FFFFFF	
0066A1																						ABC					ABC	ABC
0089C4																					ABC	ABC						ABC
00AFD8																					ABC	ABC						
00A59C																					ABC	ABC						ABC
FF6319																					ABC	ABC						
9E9500																					ABC	ABC						ABC
3F9C35																					ABC	ABC						ABC
6639B7																											ABC	ABC
A626AA																						ABC					ABC	ABC
D71F85																						ABC					ABC	ABC
000000		ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC			ABC		ABC				ABC	ABC	ABC	ABC	ABC	ABC
808080																					ABC	ABC						ABC
898D8D																					ABC	ABC						ABC
FFFFFF	ABC	ABC		ABC				ABC	ABC	ABC			ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC		ABC		ABC		

## Spectrum - WCAG AA Viewed with Protanopia

The table below shows the WCAG AA palette spectrum when viewed by users suffering from protanopia colour blindness (insensitivity to red light).

[illegible]

## Spectrum - WCAG AA Viewed with Deuteranopia

The table below shows the WCAG AA palette spectrum when viewed by users suffering from deutanopia colour-blindness (insensitivity to green light)

000000	000001	000002	000003	000004	000005	000006	000007	000008	000009	000010	000011	000012	000013	000014	000015	000016	000017	000018	000019	000020	000021	000022	000023	000024	000025	000026	000027	000028	000029	000030	000031	000032	000033	000034	000035	000036	000037	000038	000039	000040	000041	000042	000043	000044	000045	000046	000047	000048	000049	000050	000051	000052	000053	000054	000055	000056	000057	000058	000059	000060	000061	000062	000063	000064	000065	000066	000067	000068	000069	000070	000071	000072	000073	000074	000075	000076	000077	000078	000079	000080	000081	000082	000083	000084	000085	000086	000087	000088	000089	000090	000091	000092	000093	000094	000095	000096	000097	000098	000099	000100	000101	000102	000103	000104	000105	000106	000107	000108	000109	000110	000111	000112	000113	000114	000115	000116	000117	000118	000119	000120	000121	000122	000123	000124	000125	000126	000127	000128	000129	000130	000131	000132	000133	000134	000135	000136	000137	000138	000139	000140	000141	000142	000143	000144	000145	000146	000147	000148	000149	000150	000151	000152	000153	000154	000155	000156	000157	000158	000159	000160	000161	000162	000163	000164	000165	000166	000167	000168	000169	000170	000171	000172	000173	000174	000175	000176	000177	000178	000179	000180	000181	000182	000183	000184	000185	000186	000187	000188	000189	000190	000191	000192	000193	000194	000195	000196	000197	000198	000199	000200	000201	000202	000203	000204	000205	000206	000207	000208	000209	000210	000211	000212	000213	000214	000215	000216	000217	000218	000219	000220	000221	000222	000223	000224	000225	000226	000227	000228	000229	000230	000231	000232	000233	000234	000235	000236	000237	000238	000239	000240	000241	000242	000243	000244	000245	000246	000247	000248	000249	000250	000251	000252	000253	000254	000255	000256	000257	000258	000259	000260	000261	000262	000263	000264	000265	000266	000267	000268	000269	000270	000271	000272	000273	000274	000275	000276	000277	000278	000279	000280	000281	000282	000283	000284	000285	000286	000287	000288	000289	000290	000291	000292	000293	000294	000295	000296	000297	000298	000299	000300	000301	000302	000303	000304	000305	000306	000307	000308	000309	000310	000311	000312	000313	000314	000315	000316	000317	000318	000319	000320	000321	000322	000323	000324	000325	000326	000327	000328	000329	000330	000331	000332	000333	000334	000335	000336	000337	000338	000339	000340	000341	000342	000343	000344	000345	000346	000347	000348	000349	000350	000351	000352	000353	000354	000355	000356	000357	000358	000359	000360	000361	000362	000363	000364	000365	000366	000367	000368	000369	000370	000371	000372	000373	000374	000375	000376	000377	000378	000379	000380	000381	000382	000383	000384	000385	000386	000387	000388	000389	000390	000391	000392	000393	000394	000395	000396	000397	000398	000399	000400	000401	000402	000403	000404	000405	000406	000407	000408	000409	000410	000411	000412	000413	000414	000415	000416	000417	000418	000419	000420	000421	000422	000423	000424	000425	000426	000427	000428	000429	000430	000431	000432	000433	000434	000435	000436	000437	000438	000439	000440	000441	000442	000443	000444	000445	000446	000447	000448	000449	000450	000451	000452	000453	000454	000455	000456	000457	000458	000459	000460	000461	000462	000463	000464	000465	000466	000467	000468	000469	000470	000471	000472	000473	000474	000475	000476	000477	000478	000479	000480	000481	000482	000483	000484	000485	000486	000487	000488	000489	000490	000491	000492	000493	000494	000495	000496	000497	000498	000499	000500	000501	000502	000503	000504	000505	000506	000507	000508	000509	000510	000511	000512	000513	000514	000515	000516	000517	000518	000519	000520	000521	000522	000523	000524	000525	000526	000527	000528	000529	000530	000531	000532	000533	000534	000535	000536	000537	000538	000539	000540	000541	000542	000543	000544	000545	000546	000547	000548	000549	000550	000551	000552	000553	000554	000555	000556	000557	000558	000559	000560	000561	000562	000563	000564	000565	000566	000567	000568	000569	000570	000571	000572	000573	000574	000575	000576	000577	000578	000579	000580	000581	000582	000583	000584	000585	000586	000587	000588	000589	000590	000591	000592	000593	000594	000595	000596	000597	000598	000599	000600	000601	000602	000603	000604	000605	000606	000607	000608	000609	000610	000611	000612	000613	000614	000615	000616	000617	000618	000619	000620	000621	000622	000623	000624	000625	000626	000627	000628	000629	000630	000631	000632	000633	000634	000635	000636	000637	000638	000639	000640	000641	000642	000643	000644	000645	000646	000647	000648	000649	000650	000651	000652	000653	000654	000655	000656	000657	000658	000659	000660	000661	000662	000663	000664	000665	000666	000667	000668	000669	000670	000671	000672	000673	000674	000675	000676	000677	000678	000679	000680	000681	000682	000683	000684	000685	000686	000687	000688	000689	000690	000691	000692	000693	000694	000695	000696	000697	000698	000699	000700	000701	000702	000703	000704	000705	000706	000707	000708	000709	000710	000711	000712	000713	00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## Spectrum - WCAG AA Viewed with Tritanopia

The table below shows the WCAG AA palette spectrum when viewed by users suffering from tritanopia colour-blindness (insensitivity to blue light)

[illegible]